

**From:** Mcelroy, Naomi E <naomi.e.mcelroy@exxonmobil.com>  
**Sent:** Wednesday, October 29, 2025 4:09 PM  
**To:** Richard Goertz  
**Cc:** Wauhob, Thomas; R12APDMail; R6AirPermitsTX@epa.gov  
**Subject:** RE: FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plan  
**Attachments:** BTCP Title V Permit Renewal WDP Certification.pdf

Rick,

Please find the OP-CRO1 for the review period as well as the requested OP-DEL attached.

Regards,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive  
Baytown, TX 77520  
(254) 545-3160  
[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

Exxon Mobil Corporation  
5000 Bayway Drive  
PO Box 4004  
Baytown, Texas 77522-4004



**Submitted via email**

October 29, 2025

Mr. Richard Goertz  
Air Permits Division, MC 163  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

**Re: Certification of Revisions to Working Draft Permit for  
Federal Operating Permit No. O2269  
Exxon Mobil Corporation Chemical Plant  
CN600123939; RN102574803; Account Number: HG-0229-F**

Dear Mr. Goertz:

On behalf of the Exxon Mobil Corporation (ExxonMobil) Baytown Chemical Plant (BTCP), located at 5000 Bayway Drive, Baytown, TX 77520, enclosed is a signed certification of accuracy and completeness for Federal Operating Permit (FOP) No. O2269 pursuant to 30 TAC Chapter 122 Federal Operating Permits Program, Subchapter C Initial Permit Issuances, Revisions, Reopenings, and Renewals.

The enclosed Form OP-CRO1 in Section 1 is being submitted to certify revisions made during the application review and comments to the Permit No. O2269 working draft permit.

Additionally, because the Responsible Official (RO) is still associated as Duly Authorized Representative (DAR), form OP-DEL is being provided to remove Brian C. Mayo as DAR.

Applicable pages of the following forms are enclosed:

Section 1 – General Administrative Forms (new/updated information is in **bold**)

- OP-CRO1: Certification by Responsible Official
- OP-DEL: Delegation of Responsible Official Information

If you have any questions or should you require any additional information, please contact Naomi McElroy at 254-545-3160 or [naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com).

Sincerely,

  
Christy Mak  
Permitting Supervisor  
Attachment(s)

Certification of Revisions to Working Draft Permit for  
Federal Operating Permit No. O2269  
Exxon Mobil Corporation Chemical Plant  
CN600123939; RN102574803; Account Number: HG-0229-F

October 29, 2025

Email to:

Richard Goertz, P.E. – [richard.goertz@tceq.texas.gov](mailto:richard.goertz@tceq.texas.gov)  
EPA Region 6 – [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov)  
TCEQ Region 12 - [R12apdmail@tceq.texas.gov](mailto:R12apdmail@tceq.texas.gov)

**Section 1: General and Administrative Forms**  
**Form OP-CRO1**  
**Form OP-DEL**



**Form OP-CRO1**  
**Certification by Responsible Official**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

|                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Identifying Information</b>                                                                                               |
| RN: <b>RN102574803</b>                                                                                                          |
| CN: <b>CN600123939</b>                                                                                                          |
| Account No.: <b>HG-0229-F</b>                                                                                                   |
| Permit No.: <b>O2269</b>                                                                                                        |
| Project No.: <b>37612</b>                                                                                                       |
| Area Name: <b>Baytown Chemical Plant</b>                                                                                        |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                    |
| <b>II. Certification Type</b> <i>(Please mark appropriate box)</i>                                                              |
| <input checked="" type="checkbox"/> Responsible Official Representative <input type="checkbox"/> Duly Authorized Representative |
| <b>III. Submittal Type</b> <i>(Please mark appropriate box) (Only one response can be accepted per form)</i>                    |
| <input type="checkbox"/> SOP/TOP Initial Permit Application <input type="checkbox"/> Permit Revision, Renewal, or Reopening     |
| <input type="checkbox"/> GOP Initial Permit Application <input checked="" type="checkbox"/> Update to Permit Application        |
| <input type="checkbox"/> Other: _____                                                                                           |

**Form OP-CRO1**  
**Certification by Responsible Official**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

**IV. Certification of Truth**

**This certification does not extend to information which is designated by TCEQ as information for reference only.**

I, **Brian C. Mayo** certify that I am the **RO**  
*(Certifier Name printed or typed)* *(RO or DAR)*

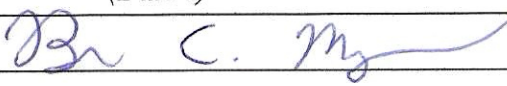
and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

*Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).*

Time Period: From **07/03/2025** to **10/24/2025**  
*(Start Date)* *(End Date)*

Specific Dates: \_\_\_\_\_  
*(Date 1)* *(Date 2)* *(Date 3)* *(Date 4)*

\_\_\_\_\_  
*(Date 5)* *(Date 6)*

Signature:  Signature Date: **10/29/2025**

Title: **BTCP Process Manager**

**Form OP-DEL**  
**Delegation of Responsible Official Information**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

|                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Identifying Information</b>                                                                                                                    |
| Account Number: <b>HG-0229-F</b>                                                                                                                     |
| Regulated Entity Number: <b>RN102574803</b>                                                                                                          |
| Customer Reference Number: <b>CN600123939</b>                                                                                                        |
| Permit Number: <b>O2269</b>                                                                                                                          |
| Area Name: <b>Baytown Chemical Plant</b>                                                                                                             |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                                         |
| <b>II. Duly Authorized Representative Information</b>                                                                                                |
| Action Type:<br><input type="checkbox"/> New DAR Identification<br><input type="checkbox"/> Administrative Information Change                        |
| Conventional Title:<br><input type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Dr. |
| Name (Driver License/STEERS):                                                                                                                        |
| Title:                                                                                                                                               |
| Delegation Effective Date:                                                                                                                           |
| Telephone Number:                                                                                                                                    |
| Fax Number:                                                                                                                                          |
| Company Name:                                                                                                                                        |
| Mailing Address:                                                                                                                                     |
| City:                                                                                                                                                |
| State:                                                                                                                                               |
| ZIP Code:                                                                                                                                            |
| Email Address:                                                                                                                                       |

**Form OP-DEL**  
**Delegation of Responsible Official Information**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

**III. Certification of Truth, Accuracy, and Completeness**

I, \_\_\_\_\_

(Name printed or typed: RO for New DAR Identification; RO or DAR for Administrative Information Change)

Certify that, based on information and belief formed after reasonable inquiry, the statements, and information stated above are true, accurate, and complete. (RO signature required for New DAR Identification only; DAR signature required for any Action Type)

Responsible Official Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Duly Authorized Representative Signature: \_\_\_\_\_

(Name(s) printed or typed) \_\_\_\_\_

Date: \_\_\_\_\_

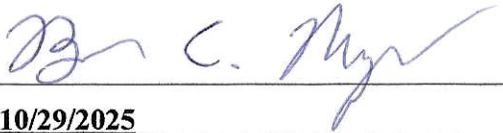
**IV. Removal of Duly Authorized Representative(s)**

The following should be removed as Duly Authorized Representative(s):

**Brian C. Mayo**

(Name(s) printed or typed)

Effective Date: 08/01/2025

Responsible Official Signature:  \_\_\_\_\_

Date: 10/29/2025

**From:** Richard Goertz  
**Sent:** Tuesday, October 28, 2025 8:17 AM  
**To:** Richard Goertz  
**Subject:** FW: FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

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**From:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Sent:** Friday, October 24, 2025 3:59 PM  
**To:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Cc:** Wauhob, Thomas <[thomas.wauhob@exxonmobil.com](mailto:thomas.wauhob@exxonmobil.com)>  
**Subject:** RE: FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical PlantAre you ok with updating the case-by-case periodic monitoring requirement for unit LAUF3629A with the PM-P-002 library option

Rick,

We are ok with using the PM-P-002 library option for LAUF3629A. We are planning for signing the OP-CRO1 this coming Wednesday, 10/29, the same day we are having the OP-DEL signed. Should the certification period be 7/3/2025-10/24/2025?

Thanks,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive  
Baytown, TX 77520  
(254) 545-3160  
[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

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**From:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Sent:** Thursday, October 23, 2025 8:47 AM  
**To:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Cc:** Wauhob, Thomas <[thomas.wauhob@exxonmobil.com](mailto:thomas.wauhob@exxonmobil.com)>  
**Subject:** FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical PlantAre you ok with updating the case-by-case periodic monitoring requirement for unit LAUF3629A with the PM-P-002 library option

If you are ok with updating the case-by-case periodic monitoring requirement for unit LAUF3629A with the PM-P-002 library option, it is now time to submit the CRO1. The date

range to be certified starts with July 3, 2025 and end with 10/23/2025. Please provide as soon as possible. Thanks.

**From:** Richard Goertz  
**Sent:** Friday, September 19, 2025 3:44 PM  
**To:** Mcelroy, Naomi E  
**Subject:** Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown  
**Attachments:** Draft Internal 9-19-2025.docx

Ms. Mcelroy,

I have implemented the changes as represented. The updated draft is attached for you to look at. The NSR permits will be attached to the document when the public notice package is developed. I am going to proceed with development of the public notice package. Please submit any additional comments by COB September 26. As always, should you have any questions, please let me know and I will contact you immediately.

**From:** Mcelroy, Naomi E <naomi.e.mcelroy@exxonmobil.com>  
**Sent:** Friday, September 5, 2025 3:44 PM  
**To:** Richard Goertz  
**Cc:** R6AirPermitsTX@epa.gov; R12APDMail  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** 2025-09-05 FOP O2269\_Project 37612 Technical Review and Working Draft Permit Response.pdf

I apologize, I failed to include the attachment.

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**From:** Mcelroy, Naomi E  
**Sent:** Friday, September 5, 2025 3:44 PM  
**To:** 'Richard Goertz' <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Cc:** 'R6AirPermitsTX@epa.gov' <[R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov)>; 'R12apdmail@tceq.texas.gov' <[R12apdmail@tceq.texas.gov](mailto:R12apdmail@tceq.texas.gov)>  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Mr. Goertz,

Please find included in the attachment the following forms in response to your note:

- OP-2
- OP-REQ3
- OP-UA7, Table 6

ExxonMobil desires to include the detailed 63 FFFF citations and we have updated the OP-REQ3 and (per the last footnote on the proposed CT and FS requirements you provided) are including an OP-UA7, Table 6. Since we are not directly subject to 63 CC, our preference is to have all the 63 CC citations included in the 63 FFFF row. Alternatively, the 63 CC and 63 FFFF citations could be listed in separate rows, but we would request that the Federal Regulation Name remain 40 CFR Part 63, Subpart FFFF for all rows, to accurately represent the site's federal applicability.

Please let me know if you have any questions or require further information.

Sincerely,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive  
Baytown, TX 77520  
(254) 545-3160



[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

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**From:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Sent:** Monday, August 25, 2025 10:29 AM  
**To:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Ms. Mcelroy,

I have reviewed the submitted information and comments on the draft permit. I believe I have made all changes with the exception of those related to cooling towers CT17, CT18, CT70, CT90, flares FS09, FS23, FS24, FS30, and pressure relief devices GRPBAPPPRD. The representation on Table 1a for the units represent information that would be used for a high-level determination. Detailed standards and main standard text are not identified. Table 1b represents detailed citations for monitoring/testing, recordkeeping, and reporting. We will need to go one way or the other (high level or detailed). I have attached a specific set of requirements for the cooling towers and flares that have been developed in case you would like to use specific citations. We will need to look at the specific requirements for the PRDs if you would like specific requirements for them. Please let me know what you would like to do.

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**From:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Sent:** Thursday, August 21, 2025 2:32 PM  
**To:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Cc:** [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov); R12APDMail <[R12APDMail@tceq.texas.gov](mailto:R12APDMail@tceq.texas.gov)>  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Rick,

Please find in the attached document comments and relevant forms responding to your email dated 7/25/2025. In addition, an updated OP-CRO2 form is included to update the Responsible Official.

Comments on the draft permit have been made directly in the word document for your review.

Please let me know if you have any questions.

Sincerely,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**

5000 Bayway Drive

Baytown, TX 77520

(254) 545-3160

[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Date: <b>09/05/2025</b>                                                                                                                                                                          |  |
| Permit No.: O2269                                                                                                                                                                                |  |
| Regulated Entity No.: RN102574803                                                                                                                                                                |  |
| Company Name: Exxon Mobil Corporation                                                                                                                                                            |  |
| For Submissions to EPA                                                                                                                                                                           |  |
| Has an electronic copy of this application been submitted (or is being submitted) to EPA? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> |  |
| <b>I. Application Type</b>                                                                                                                                                                       |  |
| Indicate the type of application:                                                                                                                                                                |  |
| <input checked="" type="checkbox"/> Renewal                                                                                                                                                      |  |
| <input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)                                                                  |  |
| <input type="checkbox"/> Significant Revision                                                                                                                                                    |  |
| <input type="checkbox"/> Revision Requesting Prior Approval                                                                                                                                      |  |
| <input type="checkbox"/> Administrative Revision                                                                                                                                                 |  |
| <input type="checkbox"/> Response to Reopening                                                                                                                                                   |  |
| <b>II. Qualification Statement</b>                                                                                                                                                               |  |
| For SOP Revisions Only <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                    |  |
| For GOP Revisions Only <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                               |  |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1 (continued)  
Texas Commission on Environmental Quality**

**III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)**

Indicate all pollutants for which the site is a major source based on the site's potential to emit:

*(Check the appropriate box[es].)*

☐ VOC                      ☐ NO<sub>x</sub>                      ☐ SO<sub>2</sub>                      ☐ PM<sub>10</sub>                      ☐ CO                      ☐ Pb                      ☐ HAP

Other:

**IV. Reference Only Requirements (For reference only)**

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?                      ☒ YES   ☐ NO   ☐ N/A

**V. Delinquent Fees and Penalties**

Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 2  
Texas Commission on Environmental Quality**

|                                       |
|---------------------------------------|
| Date: <b>09/05/2025</b>               |
| Permit No.: O2269                     |
| Regulated Entity No.: RN102574803     |
| Company Name: Exxon Mobil Corporation |

Using the table below, provide a description of the revision.

| Revision No. | Revision Code | New Unit | Unit/Group | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                          |
|--------------|---------------|----------|------------|--------------------|----------------------|--------------------------------------------------------------------------------------------------------|
|              |               |          | ID No.     | Applicable<br>Form |                      |                                                                                                        |
| 1            | SIG-E         | NO       | TK9012     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 2            | SIG-E         | NO       | TK9016     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 3            | SIG-E         | NO       | TK9018     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 4            | SIG-E         | NO       | TK9020     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 5            | SIG-E         | NO       | TK9026     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2 | N/A                  | Adding new Unit ID to Title V Permit.<br><br>Add negative applicability for 40 CFR Part 60 Subpart Kb. |

| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                     |
|--------------|---------------|----------|------------|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2           | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 7            | SIG-E         | NO       | TK3196     | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                                                      |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 10           | SIG-E         | NO       | CT90       | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart Q.                                                                       |
| 11           | SIG-E         | NO       | TK0560     | OP-REQ2                      | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 12           | SIG-E         | NO       | BAPPEGEN1  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart ZZZZ.                                                                    |
| 13           | MS-C          | NO       | CT17       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF. |

| Revision No. | Revision Code |          | Unit/Group | Process                            | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                                                                                                                                                       |
|--------------|---------------|----------|------------|------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form                    |                   |                                                                                                                                                                                                                                                                  |
| 14           | MS-C          | NO       | CT18       | OP-UA1<br>OP-UA13<br>OP-REQ3       | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 15           | MS-C          | NO       | CT70       | OP-UA1<br>OP-UA13<br>OP-REQ3       | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 16           | MS-C          | NO       | FS09       | OP-UA1<br><b>OP-UA7</b><br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 17           | MS-C          | NO       | FS23       | OP-UA1<br><b>OP-UA7</b><br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 18           | MS-C          | NO       | FS24       | OP-UA1<br><b>OP-UA7</b><br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 19           | MS-C          | NO       | FS30       | OP-UA1<br><b>OP-UA7</b><br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 20           | MS-A          | NO       | BTCPFUG    | OP-SUMR<br>OP-PBR SUP              | 177978<br>178653  | Additional emissions requested to be authorized under PBRs 106.262/11/01/2003 (PBR Registration No. 177978) and 106.261/11/01/2003 / 106.262/11/01/2003 (PBR Registration No. 178653). This NSR permit action does not affect existing regulatory applicability. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                          | Process                      | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                                                                 |
|--------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                              | Applicable<br>Form           |                      |                                                                                                                                               |
| 21           | MS-C          | NO       | CT90                                                                                                                                                                                | OP-UA1<br>OP-REQ3            | N/A                  | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                  |
| 22           | MS-C          | Yes      | GRPBAPPPRD<br>PO-874<br>PO-5212<br>PO-5508-RD<br>PO-5533                                                                                                                            | OP-SUMR<br>OP-UA1<br>OP-REQ3 | N/A                  | Adding new Group ID to Title V Permit.<br>Adding new Unit IDs to Title V Permit.<br>Adding applicability for 40 CFR Part 63, Subpart FFFF.    |
| 23           | MS-C          | NO       | IBUF730A/B/C                                                                                                                                                                        | OP-UA5                       | N/A                  | Update fuel type for 30 TAC Chapter 117, Subchapter B.                                                                                        |
| 24           | MS-C          | NO       | NRUH2                                                                                                                                                                               | OP-UA5                       | N/A                  | Removed annual heat input entry for 30 TAC Chapter 117, Subchapter B.                                                                         |
| 25           | MS-C          | NO       | HRVOCATMVT<br>HRVOCVENTS<br>IBUF730A/B/C<br>MPUF2074<br>NRUF1<br>NRUF1A<br>NRUF6<br>NRUF9A/B<br>NRU2/3<br>PAUF311<br>PAUF321<br>PFUF501<br>PFUF510<br>PFUF530<br>TDUF501<br>TDUF507 | OP-UA15                      | N/A                  | Updating HRVOC emission estimation method during scheduled startup, shutdown, and maintenance activities in 30 TAC Chapter 115, Subchapter H. |



| Revision No. | Revision Code |          | Unit/Group                                                                                                             | Process            | NSR<br>Authorization    | Description of Change and Provisional<br>Terms and Conditions                                                          |
|--------------|---------------|----------|------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                 | Applicable<br>Form |                         |                                                                                                                        |
| 26           | MS-C          | NO       | See OP-REQ2                                                                                                            | OP-REQ2            | N/A                     | Updated citations and negative applicability reasons provided for Unit IDs in Information Request dated June 10, 2025. |
| 27           | MS-C          | NO       | F1106SGU,<br>F1206SGU, TK0025                                                                                          | OP-REQ2            | N/A                     | Remove permit shield.                                                                                                  |
| 28           | MS-C          | NO       | TK0025                                                                                                                 | OP-UA3             | 20211, PAL16            | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 29           | MS-C          | NO       | TK2048,<br>TK3192,<br>TK3196                                                                                           | OP-UA3             | 96220, 141977,<br>PAL16 | Updated guidepole arrangement for 40 CFR 63, Subpart FFFF.                                                             |
| 30           | MS-C          | NO       | PPBN800ABC,<br>PPCL801,<br>PPCL831,<br>PPCY501,<br>PPDC4750,<br>PPDC8750,<br>PPDC8752,<br>PPEX501,<br>PPEX801, PPEX831 | OP-UA15            | 8586                    | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 31           | MS-C          | NO       | LAUF3629A,<br>SPUF3629B                                                                                                | OP-UA6             | 149177                  | Updated unit attributes for 40 CFR Part 60, Subpart Db.                                                                |
| 32           | MS-C          | NO       | DEGBAPPMEC,<br>DEGBCCOMP,<br>DEGBPBMEC,<br>DEGBTCPMAC                                                                  | OP-UA16            | 8586, 9571              | Updated unit attributes for 30 TAC Chapter 115, Subchapter E.                                                          |
| 33           | ADMIN-B       | NO       | N/A                                                                                                                    | OP-CRO2            | N/A                     | Notification of change to Responsible Official.                                                                        |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                                                                               | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions |
|--------------|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|---------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                                                                                   | Applicable<br>Form |                      |                                                               |
| 34           | MS-C          | NO       | LPUD303,<br>LPUF101A,<br>LPUF102,<br>LPUF102SH,<br>LPUF203,<br>LPUR601/602,<br>LPUT101,<br>LPUT102,<br>LPUT103,<br>LPUT106,<br>LPUT121, LPUT14,<br>LPUT201,<br>LPUT203,<br>LPUT620,<br>LPUVE01,<br>LPUWWC,<br>PTUF301, TK3013,<br>XPUWWC |                    |                      |                                                               |

**Applicable Requirements Summary  
Form OP-REQ3 (Page 1)  
Federal Operating Permit Program**

**Table 1a: Additions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                             |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13           | CT17                      | OP-UA1                             | 63FFFF-CT        | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF<br>§ 63.2490(a)-Table 10.b<br>§ 63.2450(a)<br>§ 63.2490(a)<br>§ 63.2490(d) |
| 14           | CT18                      | OP-UA1                             | 63FFFF-CT        | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF<br>§ 63.2490(a)-Table 10.b<br>§ 63.2450(a)<br>§ 63.2490(a)<br>§ 63.2490(d) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15           | CT70                      | OP-UA1                             | 63FFFF-CT        | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>§ 63.2490(a)-Table 10.b<br>§ 63.2450(a)<br>§ 63.2490(a)<br>§ 63.2490(d) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16           | FS09                      | OP-UA1<br>OP-UA7                   | 63FFFF-<br>FS1   | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>[G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16                  | FS09                             | OP-UA1<br>OP-UA7                          | 63FFFF-<br>FS2          | HAP              | MACT FFFF                                     | [G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17           | FS23                      | OP-UA1<br>OP-UA7                   | 63FFFF-<br>FS1   | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>[G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17                  | FS23                             | OP-UA1<br>OP-UA7                          | 63FFFF-<br>FS2          | HAP              | MACT FFFF                                     | [G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |



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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18           | FS24                      | OP-UA1<br>OP-UA7                   | 63FFFF-<br>FS1   | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>[G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18                  | FS24                             | OP-UA1<br>OP-UA7                          | 63FFFF-<br>FS2          | HAP              | MACT FFFF                                     | [G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

|                                              |                                          |                          |
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| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19           | FS30                      | OP-UA1<br>OP-UA7                   | 63FFFF-<br>FS1   | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>[G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                              |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19           | FS30                      | OP-UA1<br>OP-UA7                   | 63FFFF-<br>FS2   | HAP       | MACT FFFF                              | [G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670(c)<br>§ 63.670<br>§ 63.670(b)<br>§ 63.670(d)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(o)<br>[G]§ 63.670(o)(1)<br>[G]§ 63.670(o)(2)<br>[G]§ 63.670(o)(3)<br>[G]§ 63.670(o)(4)<br>[G]§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>[G]§ 63.670(o)(7)<br>[G]§ 63.671(c)                              |
| 21           | CT90                      | OP-UA1                             | 63FFFF-<br>CT    | HAP       | MACT FFFF                              | <del>§ 63.2450(a)</del><br><del>The permit holder shall</del><br><del>comply with the applicable</del><br><del>limitation, standard and/or</del><br><del>equipment specification</del><br><del>requirements of 40 CFR Part</del><br><del>63, Subpart FFFF</del><br>§ 63.2490(a)-Table 10.b<br>§ 63.2450(a)<br>§ 63.2490(a)<br>§ 63.2490(d) |

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|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | SOP/GOP Index No | Pollutant | Applicable Regulatory Requirement Name | Applicable Regulatory Requirement Standard(s)                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------------------|------------------------------------|------------------|-----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22           | GRPBAPPPRD                | OP-UA1                             | 63FFFF-PRD       | HAP       | MACT FFFF                              | § 63.2450(a)<br><del>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF</del><br>§ 63.2480(e)(1)<br>§ 63.2480(e)(2)<br>§ 63.2480(e)(3)(ii)<br>§ 63.2480(e)(3)(iii)<br>§ 63.2480(e)(3)(iv)<br>§ 63.2480(e)(3)(v)<br>§ 63.2480(e)(6)<br>§ 63.2480(e)(7)<br>§ 63.2480(e)(8) |

**Applicable Requirements Summary  
Form OP-REQ3 (Page 2)  
Federal Operating Permit Program**

**Table 1b: Additions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                    | Recordkeeping Requirements | Reporting Requirements |
|--------------|---------------------------|-------------------|-----------|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------|
| 13           | CT17                      | 63FFFF-CT         | HAP       | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)               | § 63.2520(e)(16)       |
| 14           | CT18                      | 63FFFF-CT         | HAP       | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)               | § 63.2520(e)(16)       |
| 15           | CT70                      | 63FFFF-CT         | HAP       | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)               | § 63.2520(e)(16)       |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 16           | FS09                      | 63FFFF-FS1        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

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|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 16           | FS09                      | 63FFFF-FS2        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |



|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 17           | FS23                      | 63FFFF-FS1        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 17           | FS23                      | 63FFFF-FS2        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 18           | FS24                      | 63FFFF-FS1        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 18           | FS24                      | 63FFFF-FS2        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 19           | FS30                      | 63FFFF-FS1        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(1)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                                                                                                                                                                                                                                                    | Recordkeeping Requirements | Reporting Requirements              |
|--------------|---------------------------|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| 19           | FS30                      | 63FFFF-FS2        | HAP       | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)(2)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)               | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 09/05/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| Revision No. | Unit/Group/Process ID No. | SOP/GOP Index No. | Pollutant | Monitoring and Testing Requirements                                                                                                                                                                               | Recordkeeping Requirements | Reporting Requirements                                                       |
|--------------|---------------------------|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|
| 21           | CT90                      | 63FFFF-CT         | HAP       | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4)                                                                                                            | § 63.2525(r)               | § 63.2520(e)(16)                                                             |
| 22           | GRPBAPPPRD                | 63FFFF-PRD        | HAP       | § 63.2450(t)<br>§ 63.2480(e)(1)<br>§ 63.2480(e)(2)<br>§ 63.2480(e)(3)(i)<br>§ 63.2480(e)(3)(ii)<br>§ 63.2480(e)(3)(iii)<br><del>§ 63.2480(e)(6)</del><br><del>§ 63.2480(e)(7)</del><br><del>§ 63.2480(e)(8)</del> | § 63.2525(q)               | § 63.2520(e)(15)<br><del>§ 63.2525(d)(4)</del><br><del>§ 63.2520(d)(4)</del> |

Texas Commission on Environmental Quality  
 Flare Attributes  
 Form OP-UA7 (Page 7)  
 Federal Operating Permit Program  
**Table 6: Title Code of Federal Regulations Part 63 (40 CFR Part 63)**  
 Subpart CC, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 09/05/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Flare Applicability | Operating Limits | AMEL ID No. | Flare Tip Velocity | Perimeter Assist Air |
|-------------|---------------|---------------------|------------------|-------------|--------------------|----------------------|
| FS09        | 63FFFF-FS1    | OTHER               | REGOP            |             | 60-                | NONE                 |
| FS23        | 63FFFF-FS1    | OTHER               | REGOP            |             | 60-                | NONE                 |
| FS24        | 63FFFF-FS1    | OTHER               | REGOP            |             | 60-                | NONE                 |
| FS30        | 63FFFF-FS1    | OTHER               | REGOP            |             | 60-                | NONE                 |
| FS09        | 63FFFF-FS2    | OTHER               | REGOP            |             | 60-400             | NONE                 |
| FS23        | 63FFFF-FS2    | OTHER               | REGOP            |             | 60-400             | NONE                 |
| FS24        | 63FFFF-FS2    | OTHER               | REGOP            |             | 60-400             | NONE                 |
| FS30        | 63FFFF-FS2    | OTHER               | REGOP            |             | 60-400             | NONE                 |
|             |               |                     |                  |             |                    |                      |
|             |               |                     |                  |             |                    |                      |



**From:** Mcelroy, Naomi E <naomi.e.mcelroy@exxonmobil.com>  
**Sent:** Wednesday, September 3, 2025 2:15 PM  
**To:** Richard Goertz  
**Subject:** RE: FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Mr. Goertz,

PCUT121A, PCUT121B, IAUT820, and IAUT860 are the IDs that line up with the units referred to in the AMOC.

We are still reviewing your question re: MON requirements for the cooling towers, flares and PRDs and will respond by 9/5.

Thanks,

Naomi McElroy

---

**From:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Sent:** Monday, August 25, 2025 3:25 PM  
**To:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Subject:** FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Ms. Mcelroy,

As a result of updating the technical review of the project, I noticed something. The first two pages in the Alternate Means of Compliance portion of the permit (page 677 of current draft) references an AMOC related to NSPS NNN and specifically identifies the Propylene Concentration Units T-121A, T-121B and Isoamylene units D-820 Overhead and D-860 Overhead. Do these units exist in the permit and if so, can you identify the current unit ID. Right now this AMOC does not appear to be linked to any set of requirements.

**From:** Richard Goertz  
**Sent:** Monday, August 25, 2025 3:25 PM  
**To:** naomi.e.mcelroy@exxonmobil.com  
**Subject:** FOP 02269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Ms. Mcelroy,

As a result of updating the technical review of the project, I noticed something. The first two pages in the Alternate Means of Compliance portion of the permit (page 677 of current draft) references an AMOC related to NSPS NNN and specifically identifies the Propylene Concentration Units T-121A, T-121B and Isoamylene units D-820 Overhead and D-860 Overhead. Do these units exist in the permit and if so, can you identify the current unit ID. Right now this AMOC does not appear to be linked to any set of requirements.

**From:** Richard Goertz  
**Sent:** Monday, August 25, 2025 10:29 AM  
**To:** Mcelroy, Naomi E  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** MACT FFFF Manual - Proj 37612 .docx

Ms. Mcelroy,

I have reviewed the submitted information and comments on the draft permit. I believe I have made all changes with the exception of those related to cooling towers CT17, CT18, CT70, CT90, flares FS09, FS23, FS24, FS30, and pressure relief devices GRPBAPPPRD. The representation on Table 1a for the units represent information that would be used for a high-level determination. Detailed standards and main standard text are not identified. Table 1b represents detailed citations for monitoring/testing, recordkeeping, and reporting. We will need to go one way or the other (high level or detailed). I have attached a specific set of requirements for the cooling towers and flares that have been developed in case you would like to use specific citations. We will need to look at the specific requirements for the PRDs if you would like specific requirements for them. Please let me know what you would like to do.

---

**From:** Mcelroy, Naomi E <[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)>  
**Sent:** Thursday, August 21, 2025 2:32 PM  
**To:** Richard Goertz <[Richard.Goertz@tceq.texas.gov](mailto:Richard.Goertz@tceq.texas.gov)>  
**Cc:** [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov); R12APDMail <[R12APDMail@tceq.texas.gov](mailto:R12APDMail@tceq.texas.gov)>  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Rick,

Please find in the attached document comments and relevant forms responding to your email dated 7/25/2025. In addition, an updated OP-CRO2 form is included to update the Responsible Official.

Comments on the draft permit have been made directly in the word document for your review.

Please let me know if you have any questions.

Sincerely,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive

Baytown, TX 77520

(254) 545-3160

[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation       | Textual Description (See Special Term and Condition 1.B.)                                                                | Monitoring And Testing Requirements                                                                                     | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145)           |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|
| CT17, CT18, CT70 CT90     | EU                      | 63FFF F-CT    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2490(a)-Table 10.b<br>§ 63.2450(a)<br>§ 63.2490(a)<br>§ 63.2490(d) | For each heat exchange system, as defined in §63.101, comply with the requirements in §63.2490(d).                       | § 63.2490(d)(1) [G]§ 63.2490(d)(1)(i) [G]§ 63.2490(d)(1)(iii) § 63.2490(d)(1)(iv) [G]§ 63.2490(d)(2) [G]§ 63.2490(d)(4) | [G]§ 63.2525(r)                               | § 63.2520(e) [G]§ 63.2520(e)(16)                    |
| FS09, FS23, FS24, FS30    | CD                      | 63FFF F-FS    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | [G]§ 63.2450(e)(5)<br>§ 63.2450(a)<br>§ 63.670                          | For any flare that is used to reduce organic HAP emissions from an MCPU, comply with the requirements of §63.2450(e)(5). | None                                                                                                                    | [G]§ 63.2525(m)                               | § 63.2520(d)(3)<br>§ 63.2520(e) [G]§ 63.2520(e)(11) |

- MACT FFFF manual build for flares FS09, FS23, FS24, **FS30**
  - For the flares, when we finish our regulatory analysis of the rule amendments, the flare requirements will just be included in the set of requirements for each emission source routed to the flare. This is our standard practice for addressing control device requirements. If the applicant wants to have the separate rows for the flare IDs at this time, we can approve that since this is a manual build. However, they should be informed that this will change when we finish our rule analysis. If they want to the permit to look more like it will look at that point, then instead of adding these separate rows for the flare IDs, you would just add these citations as manual additions to the

**Commented [CM1]:** Rick, these notes just summarize what my email explained about the options for handling these flare citation.

solution sets for the sources that route to these flares. (So the applicant would need to let you know which units, such as tanks, vents, etc., are being controlled by these flares. You would then add these citations to those MACT FFFF solution sets.)

- You will only need the textual description if adding separate MACT FFFF rows for these flares. If opting to add the flare citations into the solution sets for the emission sources, then they already have their own textual description/main standard, so you'll just add this citation as a related standard.
- The detailed breakdown of 63.670 and 63.671 citations is picked up from the UA-07 attributes on the MACT CC table (since that is where these citations are referenced from) so those will be in a separate row. The applicant needs to fill out that table for these flares. Thus, in the MACT FFFF row, we only need a general reference to 63.670 in the standards. (This is analogous to how we handled older requirements of 63.11 and 60.18, where emission sources routed to flares get those citations, and then UA-07 provides the more detailed breakdown.)

**From:** Mcelroy, Naomi E <naomi.e.mcelroy@exxonmobil.com>  
**Sent:** Thursday, August 21, 2025 2:32 PM  
**To:** Richard Goertz  
**Cc:** R6AirPermitsTX@epa.gov; R12APDMail  
**Subject:** RE: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** 2025-08-21 FOP O2269\_Project 37612 Technical Review and Working Draft Permit Response.pdf; Draft Internal 7-25-2025 - ExxonMobil Comments.docx

Rick,

Please find in the attached document comments and relevant forms responding to your email dated 7/25/2025. In addition, an updated OP-CRO2 form is included to update the Responsible Official.

Comments on the draft permit have been made directly in the word document for your review.

Please let me know if you have any questions.

Sincerely,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive  
Baytown, TX 77520  
(254) 545-3160  
[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)



August 21, 2025

*Email submittal to Richard Goertz, P.E.*

**Re: Renewal Project No. 37612 for Federal Operating Permit No. O2269  
Exxon Mobil Corporation Baytown Chemical Plant  
CN600123939; RN102574803; Account Number: HG-0229-F**

Dear Mr. Goertz:

On behalf of the Exxon Mobil Corporation (ExxonMobil) Baytown Chemical Plant (BTCP), located at 5000 Bayway Drive, Baytown, TX 77520, enclosed is a response to the Working Draft Permit (WDP) provided on July 25, 2025.

Items 33 through 36 in your Request for Information (RFI) are addressed below:

- RFI 33. Please include the following authorizations for TK3192: NSR permits 149177, PAL16 and PBR 106.261 (version 11/01/2003, registration number 175762).
- RFI 34. Please include the following authorizations for TK3196: NSR permits 149177, PAL16 and PBR 106.261 (version 11/01/2003, registration number 164637).
- RFI 35. Yes – please remove the MACT H occurrence and replace with MACT G for TK0628.
- RFI 36. Form OP-MON is being re-submitted to show the Periodic Monitoring (PM) option as described in your July 25, 2025 message. The NSR permit basis for each heater uses a CO emission factor that is based on a more stringent in-stack CO concentration than the 30 TAC Chapter 117 limit of 400 ppmvd at 3% O<sub>2</sub>. Therefore, the PM option ensures compliance with §117.310(c)(1)(B). The NSR application pages are attached for your reference.

Additional comments on the WDP are provided as track changes in the electronic file.

This submittal also serves to notify of a new appointment for Responsible Official (RO) on form OP-CRO2.

Applicable pages of the following forms are enclosed:

**Section 1 – General Administrative Forms (new/updated information is in **bold**)**

- OP-CRO2: Change of Responsible Official Information
- OP-2: Application for Permit Revision/Renewal (Tables 1-2)
- OP-SUMR: Individual Unit Summary for Revisions (Table 1)
- OP-MON: Monitoring Requirements (Table 1c)

**Section 2 – Supporting Information**

- NSR application pages for heaters in form OP-MON



August 21, 2025

If you have any questions or should you require any additional information, please contact Naomi McElroy at 254-545-3160 or [naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink that reads "Christy Mak". The signature is fluid and cursive, with the first name "Christy" and last name "Mak" clearly visible.

Christy Mak  
Permitting Supervisor  
Attachment(s)

Email to:

Richard Goertz, P.E. – [richard.goertz@tceq.texas.gov](mailto:richard.goertz@tceq.texas.gov)  
EPA Region 6 – [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov)  
TCEQ Region 12 - [R12apdmail@tceq.texas.gov](mailto:R12apdmail@tceq.texas.gov)

## **Section 1**

**Form OP-CRO2**  
**Change of Responsible Official Information**  
**Federal Operating Permit Program**

The Texas Commission on Environmental Quality (TCEQ) shall be notified of a new appointment or administrative information change (e.g., address, phone number, title) for a Responsible Official (RO), Designated Representative (DR), or Alternate Designated Representative (ADR) in the next submittal. This form satisfies the requirements for notification (a revised Certificate of Representation must also be submitted to the U.S. Environmental Protection agency for changes in the DR and ADR). After the initial submittal, if there is a change of Duly Authorized Representative (DAR) appointment or administrative information changes for the DAR, include a revised Form OP-DEL (Delegation of Responsible Official) with the next submittal to TCEQ.

|                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Identifying Information</b>                                                                                                                                                                                                                                                                                                                            |
| Account Number: <b>HG-0229-F</b>                                                                                                                                                                                                                                                                                                                             |
| Regulated Entity Number: <b>RN102574803</b>                                                                                                                                                                                                                                                                                                                  |
| Customer Reference Number: <b>CN600123939</b>                                                                                                                                                                                                                                                                                                                |
| Permit Number: <b>O2269</b>                                                                                                                                                                                                                                                                                                                                  |
| Area Name: <b>Baytown Chemical Plant</b>                                                                                                                                                                                                                                                                                                                     |
| Company: <b>Exxon Mobil Corporation</b>                                                                                                                                                                                                                                                                                                                      |
| <b>II. Change Type</b>                                                                                                                                                                                                                                                                                                                                       |
| Action Type:<br><input checked="" type="checkbox"/> New Appointment<br><input type="checkbox"/> Administrative Information Change                                                                                                                                                                                                                            |
| Contact Type ( <b>only one response accepted per form</b> ):<br><input checked="" type="checkbox"/> Responsible Official<br><input type="checkbox"/> Designated Representative ( <i>Acid Rain Program and/or CSAPR sources only</i> ) Alternate Designated<br><input type="checkbox"/> Representative ( <i>Acid Rain Program and/or CSAPR sources only</i> ) |

**Form OP-CRO2**  
**Change of Responsible Official Information**  
**Federal Operating Permit Program**

| <b>III. Responsible Official/Designated Representative/Alternate Designated Representative Information</b>                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conventional Title:<br><input checked="" type="checkbox"/> Mr.<br><input type="checkbox"/> Mrs.<br><input type="checkbox"/> Ms.<br><input type="checkbox"/> Dr. |
| Name (Driver's License/STEERS): <b>Brian C. Mayo</b>                                                                                                            |
| Title: <b>BTCP Process Manager</b>                                                                                                                              |
| Appointment Effective Date: <b>08/01/2025</b>                                                                                                                   |
| Telephone Number: <b>(832) 624-3588</b>                                                                                                                         |
| Fax Number:                                                                                                                                                     |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                                                    |
| Mailing Address: <b>P.O. Box 4004</b>                                                                                                                           |
| City: <b>Baytown</b>                                                                                                                                            |
| State: <b>TX</b>                                                                                                                                                |
| ZIP Code: <b>77522-4004</b>                                                                                                                                     |
| Email Address: <b>brian.c.mayo@exxonmobil.com</b>                                                                                                               |

**Form OP-CRO2**  
**Change of Responsible Official Information**  
**Federal Operating Permit Program**

**IV. Certification of Truth, Accuracy, and Completeness**

**This certification does not extend to information, which is designated by TCEQ as information for reference only.**

I, Brian C. Mayo, certify that based on information and belief formed Reasonable inquiry, the statement and information stated above are true, accurate, and complete.

Signature: 

Signature Date: 08/21/2025

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                  |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Date: <b>08/21/2025</b>                                                                                                                                                                          |                                                                     |
| Permit No.: O2269                                                                                                                                                                                |                                                                     |
| Regulated Entity No.: RN102574803                                                                                                                                                                |                                                                     |
| Company Name: Exxon Mobil Corporation                                                                                                                                                            |                                                                     |
| For Submissions to EPA                                                                                                                                                                           |                                                                     |
| Has an electronic copy of this application been submitted (or is being submitted) to EPA? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> |                                                                     |
| <b>I. Application Type</b>                                                                                                                                                                       |                                                                     |
| Indicate the type of application:                                                                                                                                                                |                                                                     |
| <input checked="" type="checkbox"/> Renewal                                                                                                                                                      |                                                                     |
| <input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)                                                                  |                                                                     |
| <input type="checkbox"/> Significant Revision                                                                                                                                                    |                                                                     |
| <input type="checkbox"/> Revision Requesting Prior Approval                                                                                                                                      |                                                                     |
| <input type="checkbox"/> Administrative Revision                                                                                                                                                 |                                                                     |
| <input type="checkbox"/> Response to Reopening                                                                                                                                                   |                                                                     |
| <b>II. Qualification Statement</b>                                                                                                                                                               |                                                                     |
| For SOP Revisions Only                                                                                                                                                                           | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| For GOP Revisions Only                                                                                                                                                                           | <input type="checkbox"/> YES <input type="checkbox"/> NO            |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1 (continued)  
Texas Commission on Environmental Quality**

**III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)**

Indicate all pollutants for which the site is a major source based on the site's potential to emit:

*(Check the appropriate box[es].)*

☐ VOC ☐ NO<sub>x</sub> ☐ SO<sub>2</sub> ☐ PM<sub>10</sub> ☐ CO ☐ Pb ☐ HAP

Other:

**IV. Reference Only Requirements (For reference only)**

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)? ☒ YES ☐ NO ☐ N/A

**V. Delinquent Fees and Penalties**

Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 2  
Texas Commission on Environmental Quality**

|                                       |
|---------------------------------------|
| Date: <b>08/21/2025</b>               |
| Permit No.: O2269                     |
| Regulated Entity No.: RN102574803     |
| Company Name: Exxon Mobil Corporation |

Using the table below, provide a description of the revision.

| Revision No. | Revision Code |          | Unit/Group | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                          |
|--------------|---------------|----------|------------|--------------------|----------------------|--------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable<br>Form |                      |                                                                                                        |
| 1            | SIG-E         | NO       | TK9012     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 2            | SIG-E         | NO       | TK9016     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 3            | SIG-E         | NO       | TK9018     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 4            | SIG-E         | NO       | TK9020     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 5            | SIG-E         | NO       | TK9026     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2 | N/A                  | Adding new Unit ID to Title V Permit.<br><br>Add negative applicability for 40 CFR Part 60 Subpart Kb. |



| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                     |
|--------------|---------------|----------|------------|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2           | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 7            | SIG-E         | NO       | TK3196     | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                                                      |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 10           | SIG-E         | NO       | CT90       | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart Q.                                                                       |
| 11           | SIG-E         | NO       | TK0560     | OP-REQ2                      | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 12           | SIG-E         | NO       | BAPPEGEN1  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart ZZZZ.                                                                    |
| 13           | MS-C          | NO       | CT17       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF. |

| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                                                                                                                                                       |
|--------------|---------------|----------|------------|------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                                                                                                                                                  |
| 14           | MS-C          | NO       | CT18       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 15           | MS-C          | NO       | CT70       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 16           | MS-C          | NO       | FS09       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 17           | MS-C          | NO       | FS23       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 18           | MS-C          | NO       | FS24       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 19           | MS-C          | NO       | FS30       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 20           | MS-A          | NO       | BTCPFUG    | OP-SUMR<br>OP-PBR SUP        | 177978<br>178653  | Additional emissions requested to be authorized under PBRs 106.262/11/01/2003 (PBR Registration No. 177978) and 106.261/11/01/2003 / 106.262/11/01/2003 (PBR Registration No. 178653). This NSR permit action does not affect existing regulatory applicability. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                          | Process                      | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                                                                 |
|--------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                              | Applicable<br>Form           |                      |                                                                                                                                               |
| 21           | MS-C          | NO       | CT90                                                                                                                                                                                | OP-UA1<br>OP-REQ3            | N/A                  | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                  |
| 22           | MS-C          | Yes      | GRPBAPPPRD<br>PO-874<br>PO-5212<br>PO-5508-RD<br>PO-5533                                                                                                                            | OP-SUMR<br>OP-UA1<br>OP-REQ3 | N/A                  | Adding new Group ID to Title V Permit.<br>Adding new Unit IDs to Title V Permit.<br>Adding applicability for 40 CFR Part 63, Subpart FFFF.    |
| 23           | MS-C          | NO       | IBUF730A/B/C                                                                                                                                                                        | OP-UA5                       | N/A                  | Update fuel type for 30 TAC Chapter 117, Subchapter B.                                                                                        |
| 24           | MS-C          | NO       | NRUH2                                                                                                                                                                               | OP-UA5                       | N/A                  | Removed annual heat input entry for 30 TAC Chapter 117, Subchapter B.                                                                         |
| 25           | MS-C          | NO       | HRVOCATMVT<br>HRVOCVENTS<br>IBUF730A/B/C<br>MPUF2074<br>NRUF1<br>NRUF1A<br>NRUF6<br>NRUF9A/B<br>NRU2/3<br>PAUF311<br>PAUF321<br>PFUF501<br>PFUF510<br>PFUF530<br>TDUF501<br>TDUF507 | OP-UA15                      | N/A                  | Updating HRVOC emission estimation method during scheduled startup, shutdown, and maintenance activities in 30 TAC Chapter 115, Subchapter H. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                             | Process            | NSR<br>Authorization    | Description of Change and Provisional<br>Terms and Conditions                                                          |
|--------------|---------------|----------|------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                 | Applicable<br>Form |                         |                                                                                                                        |
| 26           | MS-C          | NO       | See OP-REQ2                                                                                                            | OP-REQ2            | N/A                     | Updated citations and negative applicability reasons provided for Unit IDs in Information Request dated June 10, 2025. |
| 27           | MS-C          | NO       | F1106SGU,<br>F1206SGU, TK0025                                                                                          | OP-REQ2            | N/A                     | Remove permit shield.                                                                                                  |
| 28           | MS-C          | NO       | TK0025                                                                                                                 | OP-UA3             | 20211, PAL16            | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 29           | MS-C          | NO       | TK2048,<br>TK3192,<br>TK3196                                                                                           | OP-UA3             | 96220, 141977,<br>PAL16 | Updated guidepole arrangement for 40 CFR 63, Subpart FFFF.                                                             |
| 30           | MS-C          | NO       | PPBN800ABC,<br>PPCL801,<br>PPCL831,<br>PPCY501,<br>PPDC4750,<br>PPDC8750,<br>PPDC8752,<br>PPEX501,<br>PPEX801, PPEX831 | OP-UA15            | 8586                    | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 31           | MS-C          | NO       | LAUF3629A,<br>SPUF3629B                                                                                                | OP-UA6             | 149177                  | Updated unit attributes for 40 CFR Part 60, Subpart Db.                                                                |
| 32           | MS-C          | NO       | DEGBAPPMEC,<br>DEGBCCOMP,<br>DEGBPBMEC,<br>DEGBTCPMAC                                                                  | OP-UA16            | 8586, 9571              | Updated unit attributes for 30 TAC Chapter 115, Subchapter E.                                                          |
| 33           | ADMIN-B       | NO       | N/A                                                                                                                    | OP-CRO2            | N/A                     | Notification of change to Responsible Official.                                                                        |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                                                                                  | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions |
|--------------|---------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|---------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                                                                                      | Applicable<br>Form |                      |                                                               |
| 34           | MS-C          | NO       | LPUD303,<br>LPUF101A,<br>LPUF102,<br>LPUF102SH,<br>LPUF203,<br>LPUR601/602,<br>LPUT101,<br>LPUT102,<br>LPUT103,<br>LPUT106,<br>LPUT121,<br>LPUT14,<br>LPUT201,<br>LPUT203,<br>LPUT620,<br>LPUVE01,<br>LPUWWC,<br>PTUF301, TK3013,<br>XPUWWC |                    |                      |                                                               |

**Texas Commission on Environmental Quality  
Federal Operating Permit Program  
Individual Unit Summary for Revisions  
Form OP-SUMR  
Table 1**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/21/2025 | O2269      | RN102574803          |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106 | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|-----------------------------------|---------------------|-----------------------------------------------------------------------------|----------------------------------------------|
|                    | 1                            | TK9012                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 2                            | TK9016                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 3                            | TK9018                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 4                            | TK9020                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 5                            | TK9026                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
| A                  | 6                            | TKDIESL1               | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 7                            | TK3196                 | OP-REQ2                            | TANK                              |                     | 149177, PAL16                                                               |                                              |
|                    | 8                            | TO3645VENT             | OP-REQ2                            | PROCESS VENT                      |                     | 149177, PAL16                                                               |                                              |
|                    | 9                            | FS30-VENT              | OP-REQ2                            | PROCESS VENT                      |                     | 149177, PAL16                                                               |                                              |
|                    | 10                           | CT90                   | OP-REQ2                            | COOLING TOWER                     |                     | 149177, PAL16                                                               |                                              |
|                    | 11                           | TK0560                 | OP-REQ2                            | STORAGE TANK                      |                     | 20211, PAL16                                                                |                                              |
|                    | 12                           | BAPPEGEN1              | OP-REQ2                            | ENGINE                            |                     | 106.511/09/04/2000                                                          |                                              |

| Unit/Process AI | Unit/Process Revision No. | Unit/Process ID No. | Unit/Process Applicable Form | Unit/Process Name/ Description    | Unit/Process CAM | Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106                                                                                                                                        | Preconstruction Authorizations Title I |
|-----------------|---------------------------|---------------------|------------------------------|-----------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                 | 13                        | CT17                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600                                                                                                                                                                                                         |                                        |
|                 | 14                        | CT18                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600, 96220, 106.261/11/01/2003 [167076], 106.262/11/01/2003 [167076]                                                                                                                                        |                                        |
|                 | 15                        | CT70                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600                                                                                                                                                                                                         |                                        |
|                 | 16                        | FS09                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 106.261/11/01/2003 [144054, 155971, 164637, 162035, 165167, 167076], 106.262/11/01/2003 [144054, 155971, 162035, 165167, 167076]                                                                |                                        |
|                 | 17                        | FS23                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 106.261/11/01/2003 [144054, 155971, 164637, 162035, 165167, 167076], 106.262/11/01/2003 [144054, 155971, 162035, 165167, 167076]                                                                |                                        |
|                 | 18                        | FS24                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 157358, 106.261/09/04/2000 [50763] 106.261/11/01/2003 [155971, 164637, 162035, 165167, 167076, 76317, 80411, 144054], 106.262/11/01/2003 [155971, 162035, 165167, 167076, 76317, 80411, 144054] |                                        |
|                 | 19                        | FS30                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 149177, PAL16, 106.261/11/01/2003 [177840], 106.262/11/01/2003 [177840]                                                                                                                                      |                                        |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|-----------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                    | 20                           | BTCPFUG                | OP-SUMR<br>OP-PBRSUP               | FUGITIVES                         |                     | 4600, 8586, 9571, 20211, 28441,<br>36476, 96220, 149177, PAL16,<br>106.261/12/24/1998 [44074],<br>106.261/09/04/2000 [54715],<br>106.261/11/01/2003 [120433,<br>122563, 122598, 109284, 109740,<br>110913, 109761, 122827, 123832,<br>117728, 118027, 118033, 124055,<br>129931, 130000, 131373, 132686,<br>133867, 134883, 136257, 108815,<br>136006, 136897, 138601, 138709,<br>138869, 139477, 141229, 144054,<br>145938, 147270, 148600, 151017,<br>157551, 156187, 158011, 159030,<br>158895, 160645, 159463, 160328,<br>160542, 163045, 164917, 166371,<br>163693, 164637, 165468, 166583,<br>168038, 168285, 168038, 167076,<br>151221, 152890, 170489, 172082,<br>172613, 174327, 174957, 175445,<br>175762, 177840, 178653],<br>106.262/09/04/2000 [50641,<br>54171, 54715], |                                              |



| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|-----------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                    | 20                           | BTCPFUG                | OP-SUMR<br>OP-PBRSUP               | FUGITIVES                         |                     | (cont)<br>106.262/11/01/2003 [104818,<br>107195, 109761, 108815, 109740,<br>110913, 112083, 117728, 118027,<br>112780, 122827, 123625, 118033,<br>120433, 122563, 122598, 124055,<br>126098, 123832, 134883, 136257,<br>129931, 130000, 132686, 133867,<br>135448, 136006, 136897, 138601,<br>138709, 138869, 139447, 141229,<br>144054, 147270, 148600, 151017,<br>157551, 158011, 158351, 159030,<br>158895, 159339, 159463, 160328,<br>160542, 163045, 164917, 163693,<br>165468, 168038, 166371, 166583,<br>168038, 71653, 76270, 76317,<br>80253, 80411, 80715, 80920,<br>81081, 82149, 82657, 83400,<br>83906, 167076, 152890, 154259,<br>170489, 172613, 174327, 174957,<br>175445, 176317, 177840, 177978,<br>178653], 106.263/11/01/2001,<br>106.472/09/04/2000 [123625],<br>106.473/09/04/2000 [160542] |                                              |
| A                  | 22                           | PO-874                 | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |
| A                  | 22                           | PO-5212                | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |
| A                  | 22                           | PO-5508-RD             | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |

TCEQ-10344 (APDG 5767v7, Revised 05/20) OP-SUMR

This form is for use by facilities subject to air quality permit requirements and may be revised periodically.

| Unit/Process AI | Unit/Process Revision No. | Unit/Process ID No. | Unit/Process Applicable Form | Unit/Process Name/ Description | Unit/Process CAM | Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106 | Preconstruction Authorizations Title I |
|-----------------|---------------------------|---------------------|------------------------------|--------------------------------|------------------|-----------------------------------------------------------------------|----------------------------------------|
| A               | 22                        | PO-5533             | OP-SUMR<br>OP-UA1<br>OP-REQ3 | Pressure Relief Devices        |                  | 8586                                                                  |                                        |
| D               | 34                        | LPUD303             | OP-SUMR                      | SEPARATOR DRUM                 |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUF101A            | OP-SUMR                      | F-101A HEATER                  |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUF102             | OP-SUMR                      | F-102V HEATER                  |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUF102SH           | OP-SUMR                      | FURNACE                        |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUF203             | OP-SUMR                      | FURNACE                        |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUR601/602         | OP-SUMR                      | MOLECULAR SIEVE BEDS           |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT101             | OP-SUMR                      | TOWER                          |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT102             | OP-SUMR                      | TOWER                          |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT103             | OP-SUMR                      | FRACTIONATOR                   |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT106             | OP-SUMR                      | TOWER                          |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT121             | OP-SUMR                      | TOWER                          |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT14              | OP-SUMR                      | TOWER                          |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT201             | OP-SUMR                      | AMMONIA STRIPPER               |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT203             | OP-SUMR                      | FRACTIONATOR                   |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUT620             | OP-SUMR                      | PROCESS VENT                   |                  | 20211                                                                 |                                        |
| D               | 34                        | LPUVE01             | OP-SUMR                      | ANALYZER VENT                  |                  | 20211                                                                 |                                        |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description  | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106 | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|------------------------------------|---------------------|-----------------------------------------------------------------------------|----------------------------------------------|
| D                  | 34                           | LPUWWC                 | OP-SUMR                            | WASTEWATER<br>COLLECTION<br>SYSTEM |                     | 20211                                                                       |                                              |
| D                  | 34                           | PTUF301                | OP-SUMR                            | HEATER1                            |                     | 20211                                                                       |                                              |
| D                  | 34                           | TK3013                 | OP-SUMR                            | TANK                               |                     | 20211                                                                       |                                              |
| D                  | 34                           | XPUWWC                 | OP-SUMR                            | WASTEWATER<br>COLLECTION<br>SYSTEM |                     | 20211                                                                       |                                              |

**Texas Commission on Environmental Quality**  
**Monitoring Requirements**  
**Form OP-MON (Page 3)**  
**Federal Operating Permit Program**  
**Table 1c: CAM/PM Case-By-Case Additions**

|                                                                                                                                                             |                            |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| <b>I. Identifying Information</b>                                                                                                                           |                            |                 |
| Account No.: HG-0229-F                                                                                                                                      | RN No.: RN102574803        | CN: CN600123939 |
| Permit No.: O2269                                                                                                                                           | Project No.: 37612         |                 |
| Area Name: Baytown Chemical Plant                                                                                                                           |                            |                 |
| Company Name: Exxon Mobil Corporation                                                                                                                       |                            |                 |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                                                                    |                            |                 |
| Revision No.:                                                                                                                                               |                            |                 |
| Unit/EPN/Group/Process ID No.: BHUF100A, IBUF730A/B/C, MPUF2074, NRUF1, NRUF1A, NRUF6, NRUH2, NRUH3, PFUF501, PFUF510, PFUF530, TDUF501, TDUF507 Applicable |                            |                 |
| Form: OP-UA5                                                                                                                                                |                            |                 |
| <b>III. Applicable Regulatory Requirement</b>                                                                                                               |                            |                 |
| Name: 30 TAC Chapter 117, Subchapter B                                                                                                                      |                            |                 |
| SOP/GOP Index No.: R7300                                                                                                                                    |                            |                 |
| Pollutant: CO                                                                                                                                               |                            |                 |
| Main Standard: § 117.310(c)(1)                                                                                                                              |                            |                 |
| Monitoring Type: PM                                                                                                                                         |                            |                 |
| Unit Size:                                                                                                                                                  |                            |                 |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                                                                     |                            |                 |
| <b>IV. Control Device Information</b>                                                                                                                       |                            |                 |
| Control Device ID No.:                                                                                                                                      |                            |                 |
| Device Type:                                                                                                                                                |                            |                 |
| <b>V. CAM Case-by-case</b>                                                                                                                                  |                            |                 |
| Indicator:                                                                                                                                                  |                            |                 |
| Minimum Frequency:                                                                                                                                          |                            |                 |
| Averaging Period:                                                                                                                                           |                            |                 |
| QA/QC Procedures:                                                                                                                                           |                            |                 |
| Verification Procedures:                                                                                                                                    |                            |                 |
| Representative Date:                                                                                                                                        |                            |                 |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                                                                                 |                            |                 |
| Indicator: Fuel Usage                                                                                                                                       | Minimum Frequency: Monthly |                 |
| Averaging Period: Hourly                                                                                                                                    |                            |                 |

## **I. Identifying Information**

Periodic Monitoring Text: **Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the appropriate emission factor will be used to calculate the average hourly CO emissions. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. The calculated average hourly CO emission rate for the source will be compared to the hourly CO permit limit in the NSR permit. If the average hourly emissions for the source are above the hourly permit limit, this will be considered and reported as a deviation.**

## **Section 2**

**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Isobutylene Unit**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 2**  
**F-730 A, B, C Furnaces (EPN: F730IBU)**  
**December 2016**

**I. Basis**

Furnace F-730 A,B, and C (FIN IBUF730, EPN F730IBU) are fueled by refinery blend gas (RBG) and have pilots that burn natural gas. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum) and the natural gas contract guarantee of grains of sulfur/scf. For RBG, NO<sub>x</sub> emissions are based on performance testing for NO<sub>x</sub> RACT purposes. All other factors are from AP-42 Tables 1.4-1 and 1.4-2, Fifth Edition, Supplement D, dated July 1998.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                  |
|------------------|---------------|--------------------------------------|---------------------------------------------------------------|
| NO <sub>x</sub>  | 0.10          | lb/MMBtu                             | NO <sub>x</sub> RACT performance test                         |
| CO               | 0.082         | lb/MMBtu                             | AP-42, Table 1.4-1 (5th Edition, Supplement D - Revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 (5th Edition, Supplement D - Revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 (5th Edition, Supplement D - Revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas      |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas      |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                  |
|------------------|---------------|-----------------------|---------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 (5th Edition, Supplement D - Revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 (5th Edition, Supplement D - Revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 (5th Edition, Supplement D - Revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 (5th Edition, Supplement D - Revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas             |

Additional Parameters

|                                    |        |                     |       |      |                         |
|------------------------------------|--------|---------------------|-------|------|-------------------------|
| Average Firing Rate:               | 52.10  | MMBtu/hr            | (HHV) |      |                         |
| Maximum Firing Rate:               | 62.20  | MMBtu/hr            | (HHV) |      |                         |
| Total Number of Pilots:            | 10     |                     |       |      |                         |
| Total Pilot Firing Rate:           | 1      | MMBtu/hr            | (HHV) |      |                         |
| Operating Time:                    | 8,760  | hr/yr               |       |      |                         |
| Fuel Gas heating value (HHV):      | 788.00 | Btu/scf             |       |      |                         |
| Total Natural Gas Pilot flow rate: | 966    | scf/hr              |       | 1035 | Btu/scf Natural Gas HHV |
| Conversion Factor:                 | 385.4  | scf/lb-mol at 60° F |       |      |                         |

**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Isobutylene Unit**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 2**  
**F-730 A, B, C Furnaces (EPN: F730IBU)**  
**December 2016**

**II. CO Emissions**

Short-term Refinery Blend Gas Emissions

$$62.20 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{5.12 \frac{\text{lb CO}}{\text{hr}}}$$

Short-term Pilot Gas Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{0.08 \frac{\text{lb CO}}{\text{hr}}}$$

Annual Refinery Blend Gas Emissions

$$52.10 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{18.79 \frac{\text{ton CO}}{\text{yr}}}$$

Annual Pilot Gas Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.36 \frac{\text{ton CO}}{\text{yr}}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$62.20 \frac{\text{MMBtu}}{\text{hr}} * 0.100 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{6.22 \frac{\text{lb NO}_x}{\text{hr}}}$$

Short-term Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{0.10 \frac{\text{lb NO}_x}{\text{hr}}}$$

Annual Refinery Blend Gas Emissions

$$52.10 \frac{\text{MMBtu}}{\text{hr}} * 0.100 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{22.82 \frac{\text{ton NO}_x}{\text{yr}}}$$

Annual Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.43 \frac{\text{ton NO}_x}{\text{yr}}}$$



**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Isobutylene Unit**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 2**  
**F-730 A, B, C Furnaces (EPN: F730IBU)**  
**December 2016**

**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$62.20 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = \boxed{0.34 \frac{\text{lb VOC}}{\text{hr}}}$$

Short-term Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = \boxed{0.005 \frac{\text{lb VOC}}{\text{hr}}}$$

Annual Refinery Blend Gas Emissions

$$52.10 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{1.23 \frac{\text{ton VOC}}{\text{yr}}}$$

Annual Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.02 \frac{\text{ton VOC}}{\text{yr}}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$62.20 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = \boxed{0.46 \frac{\text{lb PM}_{10}}{\text{hr}}}$$

Short-term Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = \boxed{0.01 \frac{\text{lb PM}_{10}}{\text{hr}}}$$

Annual Refinery Blend Gas Emissions

$$52.10 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{1.70 \frac{\text{ton PM}_{10}}{\text{yr}}}$$

Annual Pilot Emissions

$$1.00 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.03 \frac{\text{ton PM}_{10}}{\text{yr}}}$$

**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Isobutylene Unit**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 2**  
**F-730 A, B, C Furnaces (EPN: F730IBU)**  
**December 2016**

**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 62.20 & \frac{\text{MMBtu}}{\text{hr}} & * & \frac{1}{788.00} & \frac{\text{MMscf fuel gas}}{\text{MMBtu}} & * & \frac{162}{1} \\
 & & & & & & \frac{\text{scf H}_2\text{S}}{\text{MMscf fuel gas}} \\
 & & & & & & \frac{1}{385.40} \\
 & & & & & & \frac{\text{mole H}_2\text{S}}{\text{scf H}_2\text{S}} \\
 & & * & \frac{34.06}{1} & \frac{\text{lb H}_2\text{S}}{\text{mole H}_2\text{S}} & * & \frac{64.04}{34.06} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb H}_2\text{S}} = \boxed{2.12 \frac{\text{lb SO}_2}{\text{hr}}}
 \end{array}$$

Short-term Pilot Emissions

$$\begin{array}{ccccccc}
 966 & \frac{\text{scf}}{\text{hr}} & * & \frac{2.5}{100} & \frac{\text{grains Sulfur}}{\text{scf}} & * & \frac{1}{7000} \\
 & & & & & & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} \\
 & & & & & & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}} \\
 & & & & & & = \boxed{0.01 \frac{\text{lb SO}_2}{\text{hr}}}
 \end{array}$$

Annual Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 52.10 & \frac{\text{MMBtu}}{\text{hr}} & * & \frac{1}{788.00} & \frac{\text{MMscf fuel gas}}{\text{MMBtu}} & * & \frac{50}{1} \\
 & & & & & & \frac{\text{scf H}_2\text{S}}{\text{MMscf fuel gas}} \\
 & & & & & & \frac{1}{385.40} \\
 & & & & & & \frac{\text{mole H}_2\text{S}}{\text{scf H}_2\text{S}} \\
 & & * & \frac{34.06}{1} & \frac{\text{lb H}_2\text{S}}{\text{mole H}_2\text{S}} & * & \frac{64.04}{34.06} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb H}_2\text{S}} \\
 & & & & & & \frac{1}{2000} \\
 & & & & & & \frac{\text{ton}}{\text{lbs}} \\
 & & & & * & \frac{8760}{1} & \frac{\text{hr}}{\text{yr}} = \boxed{2.41 \frac{\text{ton SO}_2}{\text{yr}}}
 \end{array}$$

Annual Pilot Emissions

$$\begin{array}{ccccccc}
 966 & \frac{\text{scf}}{\text{hr}} & * & \frac{2.5}{100} & \frac{\text{grains Sulfur}}{\text{scf}} & * & \frac{1}{7000} \\
 & & & & & & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} \\
 & & & & & & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}} \\
 & & * & \frac{8760}{1} & \frac{\text{hrs}}{\text{yr}} & * & \frac{1}{2000} \\
 & & & & & & \frac{\text{ton}}{\text{lbs}} = \boxed{0.03 \frac{\text{ton SO}_2}{\text{yr}}}
 \end{array}$$

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions   |       |       |
|------------------|----------------------|-------|-------|--------------------|-------|-------|
|                  | Refinery Blend Gas   | Pilot | Total | Refinery Blend Gas | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy                | tpy   | tpy   |
| CO               | 5.12                 | 0.08  | 5.20  | 18.79              | 0.36  | 19.15 |
| NO <sub>x</sub>  | 6.22                 | 0.10  | 6.32  | 22.82              | 0.43  | 23.25 |
| VOC              | 0.34                 | 0.01  | 0.34  | 1.23               | 0.02  | 1.25  |
| PM <sub>10</sub> | 0.46                 | 0.01  | 0.47  | 1.70               | 0.03  | 1.73  |
| SO <sub>2</sub>  | 2.12                 | 0.01  | 2.13  | 2.41               | 0.03  | 2.44  |

**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Olefins and Aromatics**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 3**  
**Heater F-100 (EPN: F100ABHU)**  
**December 2016**

**I. Basis**

Heater F-100 (FIN BHUF100A, EPN F100ABHU) is a heater which is fueled by natural gas and has natural gas pilots.

The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98. The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

Emission Factors:

Refinery Blend Gas

| <u>Compound</u>  | <u>Natural Gas</u> | <u>Unit</u>           | <u>Basis</u>                                                        |
|------------------|--------------------|-----------------------|---------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.06               | lb/MMBtu              | Current BACT for heaters burning natural gas.                       |
| CO               | 0.061              | lb/MMBtu              | Current BACT at the outlet based on 100 ppmv and using the F factor |
| VOC              | 0.0054             | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98)    |
| PM <sub>10</sub> | 0.0075             | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98)    |
| SO <sub>2</sub>  | 2.5                | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                   |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                          |       |                     |
|--------------------------|-------|---------------------|
| Maximum Firing Rate:     | 9.0   | MMBtu/hr            |
| Annual Firing Rate:      | 8.0   | MMBtu/hr            |
| Total Number of Pilots:  | 1     |                     |
| Total Pilot Firing Rate: | 0.10  | MMBtu/hr            |
| Operating Time:          | 8,760 | hr/yr               |
| Natural Gas HHV:         | 1,035 | Btu/scf             |
| Conversion Factor:       | 385.4 | scf/lb-mol at 60° F |

Exxon Mobil Corporation  
 Baytown Chemical Plant  
 Olefins and Aromatics  
 Renewal Application For Flexible Permit No. 20211  
 Chapter 3  
 Heater F-100 (EPN: F100ABHU)  
 December 2016

**II. CO Emissions**

Short-term Natural Gas Emissions

$$9.00 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 0.55 \frac{\text{lb CO}}{\text{hr}}$$

Annual Natural Gas Emissions

$$8.00 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 2.14 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.01 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.04 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Natural Gas Emissions

$$9.00 \frac{\text{MMBtu}}{\text{hr}} * 0.06 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.54 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.01 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Natural Gas Emissions

$$8.00 \frac{\text{MMBtu}}{\text{hr}} * 0.06 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 2.10 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.04 \frac{\text{ton NO}_x}{\text{yr.}}$$

Exxon Mobil Corporation  
 Baytown Chemical Plant  
 Olefins and Aromatics  
 Renewal Application For Flexible Permit No. 20211  
 Chapter 3  
 Heater F-100 (EPN: F100ABHU)  
 December 2016

**IV. VOC Emissions**

Short-term Natural Gas Emissions

$$9.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.05 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.001 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Natural Gas Emissions

$$8.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.19 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.002 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Natural Gas Emissions

$$9.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.07 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.001 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Natural Gas Emissions

$$8.00 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.26 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.003 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Natural Gas Emissions

$$\begin{array}{ccccccc}
 9.00 & \frac{\text{MMBtu}}{\text{hr}} & * & 1.E+06 & \frac{\text{Btu}}{\text{MMBtu}} & * & \frac{1}{1,035} \\
 & & & & & & \frac{\text{scf}}{\text{Btu nat. gas}} \\
 & & * & \frac{1}{7000} & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} & * & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}}
 \end{array}
 = 0.06 \frac{\text{lb SO}_2}{\text{hr}}$$

Short-term Pilot Emissions

$$\begin{array}{ccccccc}
 0.10 & \frac{\text{MMBtu}}{\text{hr}} & * & 1.E+06 & \frac{\text{Btu}}{\text{MMBtu}} & * & \frac{1}{1,035} \\
 & & & & & & \frac{\text{scf}}{\text{Btu nat. gas}} \\
 & & * & \frac{1}{7000} & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} & * & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}}
 \end{array}
 = 0.001 \frac{\text{lb SO}_2}{\text{hr}}$$

Annual Natural Gas Emissions

$$\begin{array}{ccccccc}
 8.00 & \frac{\text{MMBtu}}{\text{hr}} & * & 1.E+06 & \frac{\text{Btu}}{\text{MMBtu}} & * & \frac{1}{1,035} \\
 & & & & & & \frac{\text{scf}}{\text{Btu nat. gas}} \\
 & & * & \frac{1}{7000} & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} & * & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}} \\
 & & & & & * & \frac{8760}{1} \\
 & & & & & & \frac{\text{hr}}{\text{yr}}
 \end{array}
 = 0.24 \frac{\text{ton SO}_2}{\text{yr.}}$$

Annual Pilot Emissions

$$\begin{array}{ccccccc}
 0.10 & \frac{\text{MMBtu}}{\text{hr}} & * & 1.E+06 & \frac{\text{Btu}}{\text{MMBtu}} & * & \frac{1}{1,035} \\
 & & & & & & \frac{\text{scf}}{\text{Btu nat. gas}} \\
 & & * & \frac{1}{7000} & \frac{\text{lb Sulfur}}{\text{grains Sulfur}} & * & \frac{2}{1} \\
 & & & & & & \frac{\text{lb SO}_2}{\text{lb Sulfur}} \\
 & & & & & * & \frac{8760}{1} \\
 & & & & & & \frac{\text{hr}}{\text{yr}}
 \end{array}
 = 0.003 \frac{\text{ton SO}_2}{\text{yr.}}$$

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Natural Gas          | Pilot | Total | Natural Gas      | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy              | tpy   | tpy   |
| CO               | 0.55                 | 0.01  | 0.56  | 2.14             | 0.04  | 2.17  |
| NO <sub>x</sub>  | 0.54                 | 0.01  | 0.55  | 2.10             | 0.04  | 2.15  |
| VOC              | 0.05                 | 0.001 | 0.05  | 0.19             | 0.002 | 0.19  |
| PM <sub>10</sub> | 0.07                 | 0.001 | 0.07  | 0.26             | 0.003 | 0.27  |
| SO <sub>2</sub>  | 0.06                 | 0.001 | 0.06  | 0.24             | 0.003 | 0.24  |

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**Heater F-1A (EPN: F1ANRU)**  
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**I. Basis**

Heater F-1A (FIN NRUF1A, EPN F1ANRU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.075         | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |              |                 |
|------------------------------|--------|---------------------|--------------|-----------------|
| Maximum Firing Rate:         | 24.1   | MMBtu/hr            |              |                 |
| Annual Firing Rate:          | 23.1   | MMBtu/hr            |              |                 |
| Total Number of Pilots:      | 3      |                     |              |                 |
| Total Pilot Firing Rate:     | 0.30   | MMBtu/hr            |              |                 |
| Operating Time:              | 8,760  | hr/yr               |              |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |              |                 |
| Natural Gas Pilot flow rate: | 290    | scf/hr              | 1035 Btu/scf | Natural gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |              |                 |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$24.1 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 1.48 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$23.1 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 6.21 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.02 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.11 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$24.1 \frac{\text{MMBtu}}{\text{hr}} * 0.075 \frac{\text{lb NO}_x}{\text{MMBtu}} = 1.81 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.03 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$23.1 \frac{\text{MMBtu}}{\text{hr}} * 0.075 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 7.59 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.13 \frac{\text{ton NO}_x}{\text{yr.}}$$



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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

|      |                    |   |        |                        |  |   |                          |
|------|--------------------|---|--------|------------------------|--|---|--------------------------|
| 24.1 | <u>MMBtu</u><br>hr | * | 0.0054 | <u>lb VOC</u><br>MMBtu |  | = | 0.13 <u>lb VOC</u><br>hr |
|------|--------------------|---|--------|------------------------|--|---|--------------------------|

Short-term Pilot Emissions

|      |                    |   |        |                        |  |   |                           |
|------|--------------------|---|--------|------------------------|--|---|---------------------------|
| 0.30 | <u>MMBtu</u><br>hr | * | 0.0054 | <u>lb VOC</u><br>MMBtu |  | = | 0.002 <u>lb VOC</u><br>hr |
|------|--------------------|---|--------|------------------------|--|---|---------------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |        |                        |   |                   |                  |   |                  |                 |  |   |                            |
|------|--------------------|---|--------|------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------|
| 23.1 | <u>MMBtu</u><br>hr | * | 0.0054 | <u>lb VOC</u><br>MMBtu | * | <u>1</u><br>2,000 | <u>ton</u><br>lb | * | <u>8760</u><br>1 | <u>hr</u><br>yr |  | = | 0.55 <u>ton VOC</u><br>yr. |
|------|--------------------|---|--------|------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------|

Annual Pilot Emissions

|      |                    |   |        |                        |   |                   |                  |   |                  |                 |  |   |                            |
|------|--------------------|---|--------|------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------|
| 0.30 | <u>MMBtu</u><br>hr | * | 0.0054 | <u>lb VOC</u><br>MMBtu | * | <u>1</u><br>2,000 | <u>ton</u><br>lb | * | <u>8760</u><br>1 | <u>hr</u><br>yr |  | = | 0.01 <u>ton VOC</u><br>yr. |
|------|--------------------|---|--------|------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------|

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |                    |   |        |                                    |  |   |                                      |
|------|--------------------|---|--------|------------------------------------|--|---|--------------------------------------|
| 24.1 | <u>MMBtu</u><br>hr | * | 0.0075 | <u>lb PM<sub>10</sub></u><br>MMBtu |  | = | 0.18 <u>lb PM<sub>10</sub></u><br>hr |
|------|--------------------|---|--------|------------------------------------|--|---|--------------------------------------|

Short-term Pilot Emissions

|      |                    |   |        |                                    |  |   |                                       |
|------|--------------------|---|--------|------------------------------------|--|---|---------------------------------------|
| 0.30 | <u>MMBtu</u><br>hr | * | 0.0075 | <u>lb PM<sub>10</sub></u><br>MMBtu |  | = | 0.002 <u>lb PM<sub>10</sub></u><br>hr |
|------|--------------------|---|--------|------------------------------------|--|---|---------------------------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |        |                                    |   |                   |                  |   |                  |                 |  |   |                                        |
|------|--------------------|---|--------|------------------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------------------|
| 23.1 | <u>MMBtu</u><br>yr | * | 0.0075 | <u>lb PM<sub>10</sub></u><br>MMBtu | * | <u>1</u><br>2,000 | <u>ton</u><br>lb | * | <u>8760</u><br>1 | <u>hr</u><br>yr |  | = | 0.76 <u>ton PM<sub>10</sub></u><br>yr. |
|------|--------------------|---|--------|------------------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------------------|

Annual Pilot Emissions

|      |                    |   |        |                                    |   |                   |                  |   |                  |                 |  |   |                                        |
|------|--------------------|---|--------|------------------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------------------|
| 0.30 | <u>MMBtu</u><br>yr | * | 0.0075 | <u>lb PM<sub>10</sub></u><br>MMBtu | * | <u>1</u><br>2,000 | <u>ton</u><br>lb | * | <u>8760</u><br>1 | <u>hr</u><br>yr |  | = | 0.01 <u>ton PM<sub>10</sub></u><br>yr. |
|------|--------------------|---|--------|------------------------------------|---|-------------------|------------------|---|------------------|-----------------|--|---|----------------------------------------|

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |       |   |              |                       |   |              |                      |   |             |                       |
|------|-------|---|--------------|-----------------------|---|--------------|----------------------|---|-------------|-----------------------|
| 24.1 | MMBtu | * | <u>1</u>     | MMscf fuel gas        | * | <u>162</u>   | scf H <sub>2</sub> S | * | <u>1</u>    | mole H <sub>2</sub> S |
|      | hr    |   | 815.25       | MMBtu                 |   | 1            | MMscf fuel gas       |   | 385.4       | scf H <sub>2</sub> S  |
|      |       | * | <u>34.06</u> | lb H <sub>2</sub> S   | * | <u>64.04</u> | lb SO <sub>2</sub>   | = | <u>0.80</u> | lb SO <sub>2</sub>    |
|      |       |   | 1            | mole H <sub>2</sub> S |   | 34.06        | lb H <sub>2</sub> S  |   |             | hr                    |

Short-term Pilot Emissions

|     |     |   |            |               |   |          |               |   |              |                    |
|-----|-----|---|------------|---------------|---|----------|---------------|---|--------------|--------------------|
| 290 | scf | * | <u>2.5</u> | grains Sulfur | * | <u>1</u> | lb Sulfur     | * | <u>2</u>     | lb SO <sub>2</sub> |
|     | hr  |   | 100        | scf           |   | 7000     | grains Sulfur |   | 1            | lb Sulfur          |
|     |     |   |            |               |   |          |               | = | <u>0.002</u> | lb SO <sub>2</sub> |
|     |     |   |            |               |   |          |               |   |              | hr                 |

Annual Refinery Blend Gas Emissions

|      |       |   |              |                       |   |              |                      |   |             |                       |
|------|-------|---|--------------|-----------------------|---|--------------|----------------------|---|-------------|-----------------------|
| 23.1 | MMBtu | * | <u>1</u>     | MMscf fuel gas        | * | <u>50</u>    | scf H <sub>2</sub> S | * | <u>1</u>    | mole H <sub>2</sub> S |
|      | hr    |   | 815.25       | MMBtu                 |   | 1            | MMscf fuel gas       |   | 385.4       | scf H <sub>2</sub> S  |
|      |       | * | <u>34.06</u> | lb H <sub>2</sub> S   | * | <u>64.04</u> | lb SO <sub>2</sub>   | * | <u>1</u>    | ton                   |
|      |       |   | 1            | mole H <sub>2</sub> S |   | 34.06        | lb H <sub>2</sub> S  |   | 2000        | lbs                   |
|      |       |   |              |                       | * | <u>8760</u>  | hr                   | = | <u>1.03</u> | ton SO <sub>2</sub>   |
|      |       |   |              |                       |   | 1            | yr                   |   |             | yr.                   |

Annual Pilot Emissions

|     |     |   |             |               |   |          |               |   |             |                     |
|-----|-----|---|-------------|---------------|---|----------|---------------|---|-------------|---------------------|
| 290 | scf | * | <u>2.5</u>  | grains Sulfur | * | <u>1</u> | lb Sulfur     | * | <u>2</u>    | lb SO <sub>2</sub>  |
|     | hr  |   | 100         | scf           |   | 7000     | grains Sulfur |   | 1           | lb Sulfur           |
|     |     | * | <u>8760</u> | hrs           | * | <u>1</u> | ton           | = | <u>0.01</u> | ton SO <sub>2</sub> |
|     |     |   | 1           | yr            |   | 2000     | lbs           |   |             | yr.                 |

**VI. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions   |       |       |
|------------------|----------------------|-------|-------|--------------------|-------|-------|
|                  | Refinery Blend Gas   | Pilot | Total | Refinery Blend Gas | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy                | tpy   | tpy   |
| CO               | 1.48                 | 0.02  | 1.50  | 6.21               | 0.11  | 6.32  |
| NO <sub>x</sub>  | 1.81                 | 0.03  | 1.84  | 7.59               | 0.13  | 7.72  |
| VOC              | 0.13                 | 0.002 | 0.13  | 0.55               | 0.01  | 0.55  |
| PM <sub>10</sub> | 0.18                 | 0.002 | 0.18  | 0.76               | 0.01  | 0.77  |
| SO <sub>2</sub>  | 0.80                 | 0.002 | 0.80  | 1.03               | 0.01  | 1.04  |

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**I. Basis**

Heater F-1 (FIN NRUF1, EPN F1NRU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.075         | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |              |                 |
|------------------------------|--------|---------------------|--------------|-----------------|
| Maximum Firing Rate:         | 28.7   | MMBtu/hr            |              |                 |
| Annual Firing Rate:          | 27.7   | MMBtu/hr            |              |                 |
| Total Number of Pilots:      | 3      |                     |              |                 |
| Total Pilot Firing Rate:     | 0.30   | MMBtu/hr            |              |                 |
| Operating Time:              | 8,760  | hr/yr               |              |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |              |                 |
| Natural Gas Pilot flow rate: | 290    | scf/hr              | 1035 Btu/scf | Natural gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |              |                 |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$28.7 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 1.76 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$27.7 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 7.45 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.02 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.11 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$29 \frac{\text{MMBtu}}{\text{hr}} * 0.075 \frac{\text{lb NO}_x}{\text{MMBtu}} = 2.15 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.03 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$28 \frac{\text{MMBtu}}{\text{hr}} * 0.075 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 9.10 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}}$$

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$$= \frac{0.13 \text{ ton NO}_x}{\text{yr.}}$$

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$29 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.15 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.002 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$28 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.66 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.01 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$29 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.22 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.002 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$28 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.91 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.30 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.01 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 28.7 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 162 \\
 & \text{hr} & & 815.25 & \text{MMBtu} & & 1 \\
 & & & & & & \text{MMscf fuel gas} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S}
 \end{array}
 = \frac{0.95 \text{ lb SO}_2}{\text{hr}}$$

Short-term Pilot Emissions

$$\begin{array}{ccccccc}
 290 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur}
 \end{array}
 = \frac{0.002 \text{ lb SO}_2}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 27.7 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 50 \\
 & \text{hr} & & 815.25 & \text{MMBtu} & & 1 \\
 & & & & & & \text{MMscf fuel gas} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S}
 \end{array}
 = \frac{1.24 \text{ ton SO}_2}{\text{yr.}}$$

Annual Pilot Emissions

$$\begin{array}{ccccccc}
 290 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur}
 \end{array}
 = \frac{0.01 \text{ ton SO}_2}{\text{yr.}}$$

**VI. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions   |       |       |
|------------------|----------------------|-------|-------|--------------------|-------|-------|
|                  | Refinery Blend Gas   | Pilot | Total | Refinery Blend Gas | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy                | tpy   | tpy   |
| CO               | 1.76                 | 0.02  | 1.79  | 7.45               | 0.11  | 7.56  |
| NO <sub>x</sub>  | 2.15                 | 0.03  | 2.18  | 9.10               | 0.13  | 9.23  |
| VOC              | 0.15                 | 0.002 | 0.16  | 0.66               | 0.01  | 0.66  |
| PM <sub>10</sub> | 0.22                 | 0.002 | 0.22  | 0.91               | 0.01  | 0.92  |
| SO <sub>2</sub>  | 0.95                 | 0.002 | 0.95  | 1.24               | 0.01  | 1.25  |

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**II. Basis**

Heater F-501PFU (FIN PFUF501, EPN F501PFU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The ~~NO~~ and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.04666       | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |              |                 |
|------------------------------|--------|---------------------|--------------|-----------------|
| Maximum Firing Rate:         | 52.0   | MMBtu/hr            |              |                 |
| Annual Firing Rate:          | 50.0   | MMBtu/hr            |              |                 |
| Total Number of Pilots:      | 6      |                     |              |                 |
| Total Pilot Firing Rate:     | 0.60   | MMBtu/hr            |              |                 |
| Operating Time:              | 8,760  | hr/yr               |              |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |              |                 |
| Natural Gas Pilot flow rate: | 581    | scf/hr              | 1035 Btu/scf | Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |              |                 |



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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d}] \quad \text{Equation 19-1 from Appendix A to Part 60}$$

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu} \quad (\text{for natural gas - assumed same factor for fuel gas})$$

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$52.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 3.19 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$50.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 13.44 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.05 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.22 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$52.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} = 2.43 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.06 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$50.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 10.22 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.26 \frac{\text{ton NO}_x}{\text{yr.}}$$

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$52.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.28 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.003 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$50.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.18 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.01 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$52.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.39 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.005 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$50.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.64 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.60 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 52.0 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 162 \\
 & \text{hr} & & 815 & \text{MMBtu} & & 1 \\
 & & & & & & \text{scf H}_2\text{S} \\
 & & & & & & \text{MMscf fuel gas} \\
 & & & & & & 379.60 \text{ mole H}_2\text{S} \\
 & & & & & & \text{scf H}_2\text{S} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S} \\
 & & & & & & = 1.74 \text{ lb SO}_2 \\
 & & & & & & \text{hr}
 \end{array}$$

Short-term Pilot Emissions

$$\begin{array}{ccccccc}
 581 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur} \\
 & & & & & & 1 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & = 0.004 \text{ lb SO}_2 \\
 & & & & & & \text{hr}
 \end{array}$$

Annual Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 50 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 50 \\
 & \text{hr} & & 815 & \text{MMBtu} & & 1 \\
 & & & & & & \text{scf H}_2\text{S} \\
 & & & & & & \text{MMscf fuel gas} \\
 & & & & & & 379.60 \text{ mole H}_2\text{S} \\
 & & & & & & \text{scf H}_2\text{S} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S} \\
 & & & & & & * 1 \text{ ton} \\
 & & & & & & 2000 \text{ lbs} \\
 & & & & & * & 8760 \\
 & & & & & & 1 \\
 & & & & & & \text{hr} \\
 & & & & & & \text{yr} \\
 & & & & & & = 2.27 \text{ ton SO}_2 \\
 & & & & & & \text{yr.}
 \end{array}$$

Annual Pilot Emissions

$$\begin{array}{ccccccc}
 581 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur} \\
 & & & & & & 1 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb Sulfur} \\
 & & * & 8760 & \text{hrs} & * & 1 \\
 & & & 1 & \text{yr} & & 2000 \\
 & & & & & & \text{ton} \\
 & & & & & & \text{lbs} \\
 & & & & & & = 0.02 \text{ ton SO}_2 \\
 & & & & & & \text{yr.}
 \end{array}$$

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Refinery Blend       | Pilot | Total | Refinery Blend   | Pilot | Total |
|                  | Gas                  | Gas   | Gas   | Gas              | Gas   | Gas   |
|                  | lb/hr                | lb/hr | lb/hr | tpy              | tpy   | tpy   |
| CO               | 3.19                 | 0.05  | 3.24  | 13.44            | 0.22  | 13.66 |
| NO <sub>x</sub>  | 2.43                 | 0.06  | 2.49  | 10.22            | 0.26  | 10.48 |
| VOC              | 0.28                 | 0.003 | 0.28  | 1.18             | 0.01  | 1.20  |
| PM <sub>10</sub> | 0.39                 | 0.005 | 0.39  | 1.64             | 0.02  | 1.66  |
| SO <sub>2</sub>  | 1.74                 | 0.004 | 1.75  | 2.27             | 0.02  | 2.28  |

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**I. Basis**

Heater F-510 (FIN PFUF510, EPN F510PFU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.04666       | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |      |                         |
|------------------------------|--------|---------------------|------|-------------------------|
| Maximum Firing Rate:         | 46.0   | MMBtu/hr            |      |                         |
| Annual Firing Rate:          | 44.0   | MMBtu/hr            |      |                         |
| Total Number of Pilots:      | 8      |                     |      |                         |
| Total Pilot Firing Rate:     | 0.80   | MMBtu/hr            |      |                         |
| Operating Time:              | 8,760  | hr/yr               |      |                         |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |      |                         |
| Natural Gas Pilot flow rate: | 774    | scf/hr              | 1035 | Btu/scf Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |      |                         |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$46.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 2.82 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$44.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 11.83 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.07 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.29 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$46.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} = 2.15 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.08 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$44.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 8.99 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.34 \frac{\text{ton NO}_x}{\text{yr.}}$$

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$46.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.25 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.004 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$44.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.04 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$46.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.35 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.01 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$44.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.45 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.03 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 46.0 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 162 \\
 & \text{hr} & & 815 & \text{MMBtu} & & 1 \\
 & & & & & & \text{MMscf fuel gas} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S}
 \end{array}
 = \frac{1.54 \text{ lb SO}_2}{\text{hr}}$$

Short-term Pilot Emissions

$$\begin{array}{ccccccc}
 774 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur}
 \end{array}
 = \frac{0.01 \text{ lb SO}_2}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$\begin{array}{ccccccc}
 44 & \text{MMBtu} & * & 1 & \text{MMscf fuel gas} & * & 50 \\
 & \text{hr} & & 815 & \text{MMBtu} & & 1 \\
 & & & & & & \text{MMscf fuel gas} \\
 & & * & 34.06 & \text{lb H}_2\text{S} & * & 64.04 \\
 & & & 1 & \text{mole H}_2\text{S} & & 34.06 \\
 & & & & & & \text{lb SO}_2 \\
 & & & & & & \text{lb H}_2\text{S}
 \end{array}
 = \frac{1.99 \text{ ton SO}_2}{\text{yr.}}$$

Annual Pilot Emissions

$$\begin{array}{ccccccc}
 774 & \text{scf} & * & 2.5 & \text{grains Sulfur} & * & 1 \\
 & \text{hr} & & 100 & \text{scf} & & 7000 \\
 & & & & & & \text{lb Sulfur} \\
 & & & & & & \text{grains Sulfur}
 \end{array}
 = \frac{0.02 \text{ ton SO}_2}{\text{yr.}}$$

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Refinery Blend       | Pilot | Total | Refinery Blend   | Pilot | Total |
|                  | Gas<br>lb/hr         | lb/hr | lb/hr | Gas<br>tpy       | tpy   | tpy   |
| CO               | 2.82                 | 0.07  | 2.89  | 11.83            | 0.29  | 12.12 |
| NO <sub>x</sub>  | 2.15                 | 0.08  | 2.22  | 8.99             | 0.34  | 9.34  |
| VOC              | 0.25                 | 0.00  | 0.25  | 1.04             | 0.02  | 1.06  |
| PM <sub>10</sub> | 0.35                 | 0.01  | 0.35  | 1.45             | 0.03  | 1.47  |
| SO <sub>2</sub>  | 1.54                 | 0.01  | 1.55  | 1.99             | 0.02  | 2.02  |

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**I. Basis**

Heater F-530 (FIN PFUF530, EPN F530PFU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.04666       | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |              |                 |
|------------------------------|--------|---------------------|--------------|-----------------|
| Maximum Firing Rate:         | 66.0   | MMBtu/hr            |              |                 |
| Annual Firing Rate:          | 64.0   | MMBtu/hr            |              |                 |
| Total Number of Pilots:      | 8      |                     |              |                 |
| Total Pilot Firing Rate:     | 0.80   | MMBtu/hr            |              |                 |
| Operating Time:              | 8,760  | hr/yr               |              |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |              |                 |
| Natural Gas Pilot flow rate: | 774    | scf/hr              | 1035 Btu/scf | Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |              |                 |



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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$C_d = 7.26518E-06$  lbs/scf

$F_d = 8710$  dscf/MMBtu (for natural gas - assumed same factor for fuel gas)

$\%O_{2d} = 3.00\%$

$E = 0.061$  lbs/MMBtu

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

|      |                    |   |       |                       |   |                         |
|------|--------------------|---|-------|-----------------------|---|-------------------------|
| 66.0 | <u>MMBtu</u><br>hr | * | 0.061 | <u>lb CO</u><br>MMBtu | = | 4.05 <u>lb CO</u><br>hr |
|------|--------------------|---|-------|-----------------------|---|-------------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |       |                       |   |                   |                  |   |                  |                 |   |                            |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|----------------------------|
| 64.0 | <u>MMBtu</u><br>hr | * | 0.061 | <u>lb CO</u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 17.21 <u>ton CO</u><br>yr. |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|----------------------------|

Short-term Pilot Gas Emissions

|      |                    |   |       |                       |   |                         |
|------|--------------------|---|-------|-----------------------|---|-------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.082 | <u>lb CO</u><br>MMBtu | = | 0.07 <u>lb CO</u><br>hr |
|------|--------------------|---|-------|-----------------------|---|-------------------------|

Annual Pilot Gas Emissions

|      |                    |   |       |                       |   |                   |                  |   |                  |                 |   |                           |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|---------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.082 | <u>lb CO</u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 0.29 <u>ton CO</u><br>yr. |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|---------------------------|

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |                    |   |         |                                   |   |                                     |
|------|--------------------|---|---------|-----------------------------------|---|-------------------------------------|
| 66.0 | <u>MMBtu</u><br>hr | * | 0.04666 | <u>lb NO<sub>x</sub></u><br>MMBtu | = | 3.08 <u>lb NO<sub>x</sub></u><br>hr |
|------|--------------------|---|---------|-----------------------------------|---|-------------------------------------|

Short-term Pilot Emissions

|      |                    |   |      |                                   |   |                                     |
|------|--------------------|---|------|-----------------------------------|---|-------------------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.10 | <u>lb NO<sub>x</sub></u><br>MMBtu | = | 0.08 <u>lb NO<sub>x</sub></u><br>hr |
|------|--------------------|---|------|-----------------------------------|---|-------------------------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |         |                                   |   |                   |                  |   |                  |                 |   |                                        |
|------|--------------------|---|---------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|----------------------------------------|
| 64.0 | <u>MMBtu</u><br>hr | * | 0.04666 | <u>lb NO<sub>x</sub></u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 13.08 <u>ton NO<sub>x</sub></u><br>yr. |
|------|--------------------|---|---------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|----------------------------------------|

Annual Pilot Emissions

|      |                    |   |      |                                   |   |                   |                  |   |                  |                 |   |                                       |
|------|--------------------|---|------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|---------------------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.10 | <u>lb NO<sub>x</sub></u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 0.34 <u>ton NO<sub>x</sub></u><br>yr. |
|------|--------------------|---|------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|---------------------------------------|

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$66.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.36 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.004 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$64.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.51 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$66.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.50 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.01 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$64.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 2.10 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.03 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |                    |   |                   |                                                   |   |                       |                                                 |   |                    |                                                    |
|------|--------------------|---|-------------------|---------------------------------------------------|---|-----------------------|-------------------------------------------------|---|--------------------|----------------------------------------------------|
| 66.0 | <u>MMBtu</u><br>hr | * | <u>1</u><br>815   | <u>MMscf fuel gas</u><br>MMBtu                    | * | <u>162</u><br>1       | <u>scf H<sub>2</sub>S</u><br>MMscf fuel gas     | * | <u>1</u><br>379.60 | <u>mole H<sub>2</sub>S</u><br>scf H <sub>2</sub> S |
|      |                    | * | <u>34.06</u><br>1 | <u>lb H<sub>2</sub>S</u><br>mole H <sub>2</sub> S | * | <u>64.04</u><br>34.06 | <u>lb SO<sub>2</sub></u><br>lb H <sub>2</sub> S | = | <u>2.21</u>        | <u>lb SO<sub>2</sub></u><br>hr                     |

Short-term Pilot Emissions

|     |                  |   |                   |                             |   |                  |                                   |   |               |                                       |
|-----|------------------|---|-------------------|-----------------------------|---|------------------|-----------------------------------|---|---------------|---------------------------------------|
| 774 | <u>scf</u><br>hr | * | <u>2.5</u><br>100 | <u>grains Sulfur</u><br>scf | * | <u>1</u><br>7000 | <u>lb Sulfur</u><br>grains Sulfur | * | <u>2</u><br>1 | <u>lb SO<sub>2</sub></u><br>lb Sulfur |
|     |                  |   |                   |                             |   |                  |                                   | = | <u>0.01</u>   | <u>lb SO<sub>2</sub></u><br>hr        |

Annual Refinery Blend Gas Emissions

|    |                    |   |                   |                                                   |   |                       |                                                 |   |                    |                                                    |
|----|--------------------|---|-------------------|---------------------------------------------------|---|-----------------------|-------------------------------------------------|---|--------------------|----------------------------------------------------|
| 64 | <u>MMBtu</u><br>hr | * | <u>1</u><br>815   | <u>MMscf fuel gas</u><br>MMBtu                    | * | <u>50</u><br>1        | <u>scf H<sub>2</sub>S</u><br>MMscf fuel gas     | * | <u>1</u><br>379.60 | <u>mole H<sub>2</sub>S</u><br>scf H <sub>2</sub> S |
|    |                    | * | <u>34.06</u><br>1 | <u>lb H<sub>2</sub>S</u><br>mole H <sub>2</sub> S | * | <u>64.04</u><br>34.06 | <u>lb SO<sub>2</sub></u><br>lb H <sub>2</sub> S | * | <u>1</u><br>2000   | <u>ton</u><br>lbs                                  |
|    |                    |   |                   |                                                   | * | <u>8760</u><br>1      | <u>hr</u><br>yr                                 | = | <u>2.90</u>        | <u>ton SO<sub>2</sub></u><br>yr.                   |

Annual Pilot Emissions

|     |                  |   |                   |                             |   |                  |                                   |   |               |                                       |
|-----|------------------|---|-------------------|-----------------------------|---|------------------|-----------------------------------|---|---------------|---------------------------------------|
| 774 | <u>scf</u><br>hr | * | <u>2.5</u><br>100 | <u>grains Sulfur</u><br>scf | * | <u>1</u><br>7000 | <u>lb Sulfur</u><br>grains Sulfur | * | <u>2</u><br>1 | <u>lb SO<sub>2</sub></u><br>lb Sulfur |
|     |                  | * | <u>8760</u><br>1  | <u>hrs</u><br>yr            | * | <u>1</u><br>2000 | <u>ton</u><br>lbs                 | = | <u>0.02</u>   | <u>ton SO<sub>2</sub></u><br>yr.      |

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Refinery Blend       | Pilot | Total | Refinery Blend   | Pilot | Total |
|                  | Gas                  |       |       | Gas              |       |       |
|                  | lb/hr                | lb/hr | lb/hr | tpy              | tpy   | tpy   |
| CO               | 4.05                 | 0.07  | 4.12  | 17.21            | 0.29  | 17.49 |
| NO <sub>x</sub>  | 3.08                 | 0.08  | 3.16  | 13.08            | 0.34  | 13.42 |
| VOC              | 0.36                 | 0.004 | 0.36  | 1.51             | 0.02  | 1.53  |
| PM <sub>10</sub> | 0.50                 | 0.01  | 0.50  | 2.10             | 0.03  | 2.13  |
| SO <sub>2</sub>  | 2.21                 | 0.01  | 2.22  | 2.90             | 0.02  | 2.92  |

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**Heater F-6 (EPN: F6NRU)**  
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**I. Basis**

Heater F-6 (FIN NRUF6, EPN F6NRU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.04666       | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |              |                 |
|------------------------------|--------|---------------------|--------------|-----------------|
| Maximum Firing Rate:         | 53.0   | MMBtu/hr            |              |                 |
| Annual Firing Rate:          | 51.0   | MMBtu/hr            |              |                 |
| Total Number of Pilots:      | 8      |                     |              |                 |
| Total Pilot Firing Rate:     | 0.80   | MMBtu/hr            |              |                 |
| Operating Time:              | 8,760  | hr/yr               |              |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |              |                 |
| Natural Gas Pilot flow rate: | 774    | scf/hr              | 1035 Btu/scf | Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |              |                 |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$53.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 3.25 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$51.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 13.71 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.07 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.29 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$53.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} = 2.47 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.08 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$51.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 10.42 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}}$$

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$$= \frac{0.34 \text{ ton NO}_x}{\text{yr.}}$$

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$53.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.29 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.004 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$51.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.21 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$53.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.40 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.01 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$51.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.68 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.03 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |              |   |              |                          |   |              |                           |   |             |                            |
|------|--------------|---|--------------|--------------------------|---|--------------|---------------------------|---|-------------|----------------------------|
| 53.0 | <u>MMBtu</u> | * | <u>1</u>     | <u>MMscf fuel gas</u>    | * | <u>162</u>   | <u>scf H<sub>2</sub>S</u> | * | <u>1</u>    | <u>mole H<sub>2</sub>S</u> |
|      | hr           |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas            |   | 379.60      | scf H <sub>2</sub> S       |
|      |              | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u>  | = | <u>1.78</u> | <u>lb SO<sub>2</sub></u>   |
|      |              |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S       |   |             | hr                         |

Short-term Pilot Emissions

|     |            |   |            |                      |   |          |                  |   |             |                          |
|-----|------------|---|------------|----------------------|---|----------|------------------|---|-------------|--------------------------|
| 774 | <u>scf</u> | * | <u>2.5</u> | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u>    | <u>lb SO<sub>2</sub></u> |
|     | hr         |   | 100        | scf                  |   | 7000     | grains Sulfur    |   | 1           | lb Sulfur                |
|     |            |   |            |                      |   |          |                  | = | <u>0.01</u> | <u>lb SO<sub>2</sub></u> |
|     |            |   |            |                      |   |          |                  |   |             | hr                       |

Annual Refinery Blend Gas Emissions

|    |              |   |              |                          |   |              |                           |   |             |                            |
|----|--------------|---|--------------|--------------------------|---|--------------|---------------------------|---|-------------|----------------------------|
| 51 | <u>MMBtu</u> | * | <u>1</u>     | <u>MMscf fuel gas</u>    | * | <u>50</u>    | <u>scf H<sub>2</sub>S</u> | * | <u>1</u>    | <u>mole H<sub>2</sub>S</u> |
|    | hr           |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas            |   | 379.60      | scf H <sub>2</sub> S       |
|    |              | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u>  | * | <u>1</u>    | <u>ton</u>                 |
|    |              |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S       |   | 2000        | lbs                        |
|    |              |   |              |                          | * | <u>8760</u>  | <u>hr</u>                 | = | <u>2.31</u> | <u>ton SO<sub>2</sub></u>  |
|    |              |   |              |                          |   | 1            | yr                        |   |             | yr.                        |

Annual Pilot Emissions

|     |            |   |             |                      |   |          |                  |   |             |                           |
|-----|------------|---|-------------|----------------------|---|----------|------------------|---|-------------|---------------------------|
| 774 | <u>scf</u> | * | <u>2.5</u>  | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u>    | <u>lb SO<sub>2</sub></u>  |
|     | hr         |   | 100         | scf                  |   | 7000     | grains Sulfur    |   | 1           | lb Sulfur                 |
|     |            | * | <u>8760</u> | <u>hrs</u>           | * | <u>1</u> | <u>ton</u>       | = | <u>0.02</u> | <u>ton SO<sub>2</sub></u> |
|     |            |   | 1           | yr                   |   | 2000     | lbs              |   |             | yr.                       |

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Refinery Blend       | Pilot | Total | Refinery Blend   | Pilot | Total |
|                  | Gas                  |       |       | Gas              |       |       |
|                  | lb/hr                | lb/hr | lb/hr | tpy              | tpy   | tpy   |
| CO               | 3.25                 | 0.07  | 3.32  | 13.71            | 0.29  | 14.00 |
| NO <sub>x</sub>  | 2.47                 | 0.08  | 2.55  | 10.42            | 0.34  | 10.77 |
| VOC              | 0.29                 | 0.004 | 0.29  | 1.21             | 0.02  | 1.23  |
| PM <sub>10</sub> | 0.40                 | 0.01  | 0.40  | 1.68             | 0.03  | 1.70  |
| SO <sub>2</sub>  | 1.78                 | 0.01  | 1.78  | 2.31             | 0.02  | 2.34  |



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**Heater H-2 (EPN: H2NRU)**  
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**I. Basis**

Heater H-2 (FIN NRUH2, EPN H2NRU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.075         | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                                     |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |      |         |                 |
|------------------------------|--------|---------------------|------|---------|-----------------|
| Maximum Firing Rate:         | 73.7   | MMBtu/hr            |      |         |                 |
| Annual Firing Rate:          | 30.0   | MMBtu/hr            |      |         |                 |
| Total Number of Pilots:      | 8      |                     |      |         |                 |
| Total Pilot Firing Rate:     | 0.80   | MMBtu/hr            |      |         |                 |
| Operating Time:              | 8,760  | hr/yr               |      |         |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |      |         |                 |
| Natural Gas Pilot flow rate: | 774    | scf/hr              | 1035 | Btu/scf | Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |      |         |                 |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

|      |                    |   |       |                       |   |      |                    |
|------|--------------------|---|-------|-----------------------|---|------|--------------------|
| 73.7 | <u>MMBtu</u><br>hr | * | 0.061 | <u>lb CO</u><br>MMBtu | = | 4.52 | <u>lb CO</u><br>hr |
|------|--------------------|---|-------|-----------------------|---|------|--------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |       |                       |   |                   |                  |   |                  |                 |   |      |                      |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------|
| 30.0 | <u>MMBtu</u><br>hr | * | 0.061 | <u>lb CO</u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 8.07 | <u>ton CO</u><br>yr. |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------|

Short-term Pilot Gas Emissions

|      |                    |   |       |                       |   |      |                    |
|------|--------------------|---|-------|-----------------------|---|------|--------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.082 | <u>lb CO</u><br>MMBtu | = | 0.07 | <u>lb CO</u><br>hr |
|------|--------------------|---|-------|-----------------------|---|------|--------------------|

Annual Pilot Gas Emissions

|      |                    |   |       |                       |   |                   |                  |   |                  |                 |   |      |                      |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.082 | <u>lb CO</u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 0.29 | <u>ton CO</u><br>yr. |
|------|--------------------|---|-------|-----------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------|

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |                    |   |       |                                   |   |      |                                |
|------|--------------------|---|-------|-----------------------------------|---|------|--------------------------------|
| 73.7 | <u>MMBtu</u><br>hr | * | 0.075 | <u>lb NO<sub>x</sub></u><br>MMBtu | = | 5.53 | <u>lb NO<sub>x</sub></u><br>hr |
|------|--------------------|---|-------|-----------------------------------|---|------|--------------------------------|

Short-term Pilot Emissions

|      |                    |   |      |                                   |   |      |                                |
|------|--------------------|---|------|-----------------------------------|---|------|--------------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.10 | <u>lb NO<sub>x</sub></u><br>MMBtu | = | 0.08 | <u>lb NO<sub>x</sub></u><br>hr |
|------|--------------------|---|------|-----------------------------------|---|------|--------------------------------|

Annual Refinery Blend Gas Emissions

|      |                    |   |       |                                   |   |                   |                  |   |                  |                 |   |      |                                  |
|------|--------------------|---|-------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------------------|
| 30.0 | <u>MMBtu</u><br>hr | * | 0.075 | <u>lb NO<sub>x</sub></u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 9.86 | <u>ton NO<sub>x</sub></u><br>yr. |
|------|--------------------|---|-------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------------------|

Annual Pilot Emissions

|      |                    |   |      |                                   |   |                   |                  |   |                  |                 |   |      |                                  |
|------|--------------------|---|------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------------------|
| 0.80 | <u>MMBtu</u><br>hr | * | 0.10 | <u>lb NO<sub>x</sub></u><br>MMBtu | * | $\frac{1}{2,000}$ | <u>ton</u><br>lb | * | $\frac{8760}{1}$ | <u>hr</u><br>yr | = | 0.34 | <u>ton NO<sub>x</sub></u><br>yr. |
|------|--------------------|---|------|-----------------------------------|---|-------------------|------------------|---|------------------|-----------------|---|------|----------------------------------|

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.40 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.004 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$30.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.71 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton VOC}}{\text{yr.}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.55 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.01 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$30.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.99 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.03 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |       |   |              |                          |   |              |                          |   |             |                          |
|------|-------|---|--------------|--------------------------|---|--------------|--------------------------|---|-------------|--------------------------|
| 73.7 | MMBtu | * | 1            | MMscf fuel gas           | * | 162          | scf H <sub>2</sub> S     | * | 1           | mole H <sub>2</sub> S    |
|      | hr    |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas           |   | 379.60      | scf H <sub>2</sub> S     |
|      |       | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u> | = | <u>2.47</u> | <u>lb SO<sub>2</sub></u> |
|      |       |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S      |   |             | hr                       |

Short-term Pilot Emissions

|     |     |   |            |                      |   |          |                  |   |             |                          |
|-----|-----|---|------------|----------------------|---|----------|------------------|---|-------------|--------------------------|
| 774 | scf | * | <u>2.5</u> | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u>    | <u>lb SO<sub>2</sub></u> |
|     | hr  |   | 100        | scf                  |   | 7000     | grains Sulfur    |   | 1           | lb Sulfur                |
|     |     |   |            |                      |   |          |                  | = | <u>0.01</u> | <u>lb SO<sub>2</sub></u> |
|     |     |   |            |                      |   |          |                  |   |             | hr                       |

Annual Refinery Blend Gas Emissions

|    |       |   |              |                          |   |              |                          |   |             |                           |
|----|-------|---|--------------|--------------------------|---|--------------|--------------------------|---|-------------|---------------------------|
| 30 | MMBtu | * | 1            | MMscf fuel gas           | * | 50           | scf H <sub>2</sub> S     | * | 1           | mole H <sub>2</sub> S     |
|    | hr    |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas           |   | 379.60      | scf H <sub>2</sub> S      |
|    |       | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u> | * | <u>1</u>    | <u>ton</u>                |
|    |       |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S      |   | 2000        | lbs                       |
|    |       |   |              |                          | * | <u>8760</u>  | <u>hr</u>                | = | <u>1.36</u> | <u>ton SO<sub>2</sub></u> |
|    |       |   |              |                          |   | 1            | yr                       |   |             | yr.                       |

Annual Pilot Emissions

|     |     |   |             |                      |   |          |                  |   |             |                           |
|-----|-----|---|-------------|----------------------|---|----------|------------------|---|-------------|---------------------------|
| 774 | scf | * | <u>2.5</u>  | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u>    | <u>lb SO<sub>2</sub></u>  |
|     | hr  |   | 100         | scf                  |   | 7000     | grains Sulfur    |   | 1           | lb Sulfur                 |
|     |     | * | <u>8760</u> | <u>hrs</u>           | * | <u>1</u> | <u>ton</u>       | = | <u>0.02</u> | <u>ton SO<sub>2</sub></u> |
|     |     |   | 1           | yr                   |   | 2000     | lbs              |   |             | yr.                       |

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions |       |       |
|------------------|----------------------|-------|-------|------------------|-------|-------|
|                  | Refinery Blend       | Pilot | Total | Refinery Blend   | Pilot | Total |
|                  | Gas                  | Gas   | Gas   | Gas              | Gas   | Gas   |
|                  | lb/hr                | lb/hr | lb/hr | tpy              | tpy   | tpy   |
| CO               | 4.52                 | 0.07  | 4.59  | 8.07             | 0.29  | 8.35  |
| NO <sub>x</sub>  | 5.53                 | 0.08  | 5.61  | 9.86             | 0.34  | 10.20 |
| VOC              | 0.40                 | 0.004 | 0.40  | 0.71             | 0.02  | 0.73  |
| PM <sub>10</sub> | 0.55                 | 0.01  | 0.56  | 0.99             | 0.03  | 1.01  |
| SO <sub>2</sub>  | 2.47                 | 0.01  | 2.48  | 1.36             | 0.02  | 1.38  |

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**I. Basis**

Heater H-3 (FIN NRUH3, EPN H3NRU) is fueled by refinery blend gas and has pilots that burn natural gas.

The emissions from firing refinery blend gas are calculated based on BACT, as discussed in the following. The NO<sub>x</sub> and CO emissions are calculated at BACT as outlined below. SO<sub>2</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum). PM<sub>10</sub> and VOC emission factors are from AP-42, Table 1.4-2, dated 7/98.

The emissions from pilots for all pollutants are based on AP-42, Table 1.4-1 and Table 1.4-2, dated 7/98.

The SO<sub>2</sub> emissions are calculated based on the contract guarantee of grains of sulfur/scf.

Additional VOC emissions from waste gas combustion are calculated based on a 99.9% destruction and removal efficiency (DRE) for the heater.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                                     |
|------------------|---------------|--------------------------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.04666       | lb/MMBtu                             | Current BACT for heaters burning refinery blend gas.             |
| CO               | 100           | ppm at outlet                        | Current BACT at the outlet                                       |
| CO               | 0.061         | lb/MMBtu                             | Calculated from 100 ppmv (see below)                             |
| VOC              | 0.0054        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu                             | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas         |
| SO <sub>2</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas         |

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           |                                                                  |
|------------------|---------------|-----------------------|------------------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1 , Fifth Edition, Supplement D, (revised 7/98) |
| VOC              | 0.0054        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| PM <sub>10</sub> | 0.0075        | lb/MMBtu              | AP-42, Table 1.4-2 , Fifth Edition, Supplement D, (revised 7/98) |
| SO <sub>2</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas                |

Additional Parameters

|                              |        |                     |      |         |                 |
|------------------------------|--------|---------------------|------|---------|-----------------|
| Maximum Firing Rate:         | 73.7   | MMBtu/hr            |      |         |                 |
| Annual Firing Rate:          | 61.0   | MMBtu/hr            |      |         |                 |
| Total Number of Pilots:      | 8      |                     |      |         |                 |
| Total Pilot Firing Rate:     | 0.80   | MMBtu/hr            |      |         |                 |
| Operating Time:              | 8,760  | hr/yr               |      |         |                 |
| Fuel Gas heating value(HHV): | 815.25 | Btu/scf             |      |         |                 |
| Natural Gas Pilot flow rate: | 774    | scf/hr              | 1035 | Btu/scf | Natural Gas HHV |
| Conversion Factor:           | 385.4  | scf/lb-mol at 60° F |      |         |                 |

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**II. CO Emissions**

Calculation of CO Emission Factor

$$E = C_d F_d (20.9 / 20.9 - \%O_{2d})$$

Equation 19-1 from Appendix A to Part 60

$$C_d = 7.26518E-06 \text{ lbs/scf}$$

$$F_d = 8710 \text{ dscf/MMBtu}$$

(for natural gas - assumed same factor for fuel gas)

$$\%O_{2d} = 3.00\%$$

$$E = 0.061 \text{ lbs/MMBtu}$$

Note: F factor is from Table 19-1, Appendix A to Part 60 of Title 40 of the Code of Federal Regulations.

Short-term Refinery Blend Gas Emissions

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} = 4.52 \frac{\text{lb CO}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$61.0 \frac{\text{MMBtu}}{\text{hr}} * 0.061 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 16.40 \frac{\text{ton CO}}{\text{yr.}}$$

Short-term Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = 0.07 \frac{\text{lb CO}}{\text{hr}}$$

Annual Pilot Gas Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.29 \frac{\text{ton CO}}{\text{yr.}}$$

**III. NO<sub>x</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} = 3.44 \frac{\text{lb NO}_x}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} = 0.08 \frac{\text{lb NO}_x}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$61.0 \frac{\text{MMBtu}}{\text{hr}} * 0.04666 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 12.47 \frac{\text{ton NO}_x}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.34 \frac{\text{ton NO}_x}{\text{yr.}}$$

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**IV. VOC Emissions**

Short-term Refinery Blend Gas Emissions based on AP-42 Combustion Factors

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.40 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} = 0.004 \frac{\text{lb VOC}}{\text{hr}}$$

Short-term Waste Gas Emissions based on Heater VOC Destruction

$$2397.1 \frac{\text{lb}}{\text{hr}} * 99.9\% \text{ DRE} = 2.40 \frac{\text{lb VOC}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions based on AP-42 Combustion Factors

$$61.0 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.44 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0054 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.02 \frac{\text{ton VOC}}{\text{yr.}}$$

Annual Waste Gas Emissions based on Heater VOC Destruction

$$389.1 \frac{\text{lb}}{\text{hr}} * 99.9\% \text{ DRE} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 1.70 \frac{\text{ton VOC}}{\text{yr}}$$

**V. PM<sub>10</sub> Emissions**

Short-term Refinery Blend Gas Emissions

$$73.7 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.55 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Short-term Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{hr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = 0.01 \frac{\text{lb PM}_{10}}{\text{hr}}$$

Annual Refinery Blend Gas Emissions

$$61.0 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 2.00 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

Annual Pilot Emissions

$$0.80 \frac{\text{MMBtu}}{\text{yr}} * 0.0075 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = 0.03 \frac{\text{ton PM}_{10}}{\text{yr.}}$$

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**VI. SO<sub>2</sub> Emissions**

Short-term Refinery Blend Gas Emissions

|      |       |   |              |                          |   |              |                          |   |        |                          |
|------|-------|---|--------------|--------------------------|---|--------------|--------------------------|---|--------|--------------------------|
| 73.7 | MMBtu | * | 1            | MMscf fuel gas           | * | 162          | scf H <sub>2</sub> S     | * | 1      | mole H <sub>2</sub> S    |
|      | hr    |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas           |   | 379.60 | scf H <sub>2</sub> S     |
|      |       | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u> | = | 2.47   | <u>lb SO<sub>2</sub></u> |
|      |       |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S      |   |        | hr                       |

Short-term Pilot Emissions

|     |     |   |            |                      |   |          |                  |   |          |                          |
|-----|-----|---|------------|----------------------|---|----------|------------------|---|----------|--------------------------|
| 774 | scf | * | <u>2.5</u> | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u> | <u>lb SO<sub>2</sub></u> |
|     | hr  |   | 100        | scf                  |   | 7000     | grains Sulfur    |   | 1        | lb Sulfur                |
|     |     |   |            |                      |   |          |                  | = | 0.01     | <u>lb SO<sub>2</sub></u> |
|     |     |   |            |                      |   |          |                  |   |          | hr                       |

Annual Refinery Blend Gas Emissions

|      |       |   |              |                          |   |              |                          |   |          |                           |
|------|-------|---|--------------|--------------------------|---|--------------|--------------------------|---|----------|---------------------------|
| 61.0 | MMBtu | * | 1            | MMscf fuel gas           | * | 50           | scf H <sub>2</sub> S     | * | 1        | mole H <sub>2</sub> S     |
|      | hr    |   | 815          | MMBtu                    |   | 1            | MMscf fuel gas           |   | 379.60   | scf H <sub>2</sub> S      |
|      |       | * | <u>34.06</u> | <u>lb H<sub>2</sub>S</u> | * | <u>64.04</u> | <u>lb SO<sub>2</sub></u> | * | <u>1</u> | <u>ton</u>                |
|      |       |   | 1            | mole H <sub>2</sub> S    |   | 34.06        | lb H <sub>2</sub> S      |   | 2000     | lbs                       |
|      |       |   |              |                          | * | <u>8760</u>  | <u>hr</u>                | = | 2.76     | <u>ton SO<sub>2</sub></u> |
|      |       |   |              |                          |   | 1            | yr                       |   |          | yr.                       |

Annual Pilot Emissions

|     |     |   |             |                      |   |          |                  |   |          |                           |
|-----|-----|---|-------------|----------------------|---|----------|------------------|---|----------|---------------------------|
| 774 | scf | * | <u>2.5</u>  | <u>grains Sulfur</u> | * | <u>1</u> | <u>lb Sulfur</u> | * | <u>2</u> | <u>lb SO<sub>2</sub></u>  |
|     | hr  |   | 100         | scf                  |   | 7000     | grains Sulfur    |   | 1        | lb Sulfur                 |
|     |     | * | <u>8760</u> | <u>hrs</u>           | * | <u>1</u> | <u>ton</u>       | = | 0.02     | <u>ton SO<sub>2</sub></u> |
|     |     |   | 1           | yr                   |   | 2000     | lbs              |   |          | yr.                       |

**VII. Emission Summary**

| Compound         | Short-Term Emissions |       |                      |       | Annual Emissions   |       |                      |       |
|------------------|----------------------|-------|----------------------|-------|--------------------|-------|----------------------|-------|
|                  | Refinery Blend Gas   | Pilot | Waste Gas Combustion | Total | Refinery Blend Gas | Pilot | Waste Gas Combustion | Total |
|                  | lb/hr                | lb/hr | lb/hr                | lb/hr | tpy                | tpy   | tpy                  | tpy   |
| CO               | 4.52                 | 0.07  |                      | 4.59  | 16.40              | 0.29  |                      | 16.69 |
| NO <sub>x</sub>  | 3.44                 | 0.08  |                      | 3.52  | 12.47              | 0.34  |                      | 12.81 |
| VOC              | 0.40                 | 0.004 | 2.40                 | 2.80  | 1.44               | 0.02  | 1.70                 | 3.17  |
| PM <sub>10</sub> | 0.55                 | 0.01  |                      | 0.56  | 2.00               | 0.03  |                      | 2.03  |
| SO <sub>2</sub>  | 2.47                 | 0.01  |                      | 2.48  | 2.76               | 0.02  |                      | 2.79  |



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**Furnace F-501 (EPN: F501TDU)**  
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**I. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions   |       |       |
|------------------|----------------------|-------|-------|--------------------|-------|-------|
|                  | Refinery Blend Gas   | Pilot | Total | Refinery Blend Gas | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy                | tpy   | tpy   |
| CO               | 6.03                 | 0.06  | 6.09  | 25.14              | 0.28  | 25.43 |
| NO <sub>x</sub>  | 5.15                 | 0.08  | 5.22  | 21.46              | 0.34  | 21.80 |
| VOC              | 0.37                 | 0.00  | 0.37  | 1.53               | 0.02  | 1.55  |
| PM <sub>10</sub> | 0.54                 | 0.01  | 0.55  | 2.27               | 0.03  | 2.29  |
| SO <sub>x</sub>  | 2.43                 | 0.01  | 2.43  | 3.12               | 0.02  | 3.15  |

**II. Basis**

Furnace F-501 (FIN TDUF501, EPN F501TDU) is fueled by refinery blend gas (RBG) and has pilots that burn natural gas. SO<sub>x</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum) and the natural gas contract guarantee of grains of sulfur/scf. For RBG, NO<sub>x</sub> emissions are based on performance testing for NO<sub>x</sub> RACT purposes. All other factors are from AP-42, Tables 1.4-1 and 1.4-2, Fifth Edition, Supplement D, dated 7/98.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                             |
|------------------|---------------|--------------------------------------|----------------------------------------------------------|
| NO <sub>x</sub>  | 0.07          | lb/MMBtu                             | NO <sub>x</sub> RACT performance test                    |
| CO               | 0.082         | lb/MMBtu                             | AP-42, Table 1.4-1                                       |
| VOC              | 0.005         | lb/MMBtu                             | AP-42, Table 1.4-2                                       |
| PM <sub>10</sub> | 0.0074        | lb/MMBtu                             | AP-42, Table 1.4-2                                       |
| SO <sub>x</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas |
| SO <sub>x</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas |

Note: Refinery Blend gas HHV can range from 800-1600 btu/scf; for determining AP-42 factors, BTCP uses 1020 btu/scf. For determining SO<sub>2</sub> emissions, BTCP

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                      |
|------------------|---------------|-----------------------|---------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1                                |
| CO               | 0.082         | lb/MMBtu              | AP-42, Table 1.4-1                                |
| VOC              | 0.0050        | lb/MMBtu              | AP-42, Table 1.4-2                                |
| PM <sub>10</sub> | 0.0074        | lb/MMBtu              | AP-42, Table 1.4-2                                |
| SO <sub>x</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas |

Note: There is some variation in the heat value of natural gas, for determining AP-42 factors, BTCP uses 1020 btu/scf.

Additional Parameters

|                                    |       |                     |       |
|------------------------------------|-------|---------------------|-------|
| Average Firing Rate:               | 70.00 | MMBtu/hr            | (HHV) |
| Maximum Firing Rate:               | 73.50 | MMBtu/hr            | (HHV) |
| Total Number of Pilots:            | 8     |                     |       |
| Total Pilot Firing Rate:           | 0.79  | MMBtu/hr            | (HHV) |
| Operating Time:                    | 8,760 | hr/yr               |       |
| Fuel Gas heating value (HHV):      | 815   | Btu/scf             |       |
| Total Natural Gas Pilot flow rate: | 776   | scf/hr              |       |
| Conversion Factor:                 | 385.4 | scf/lb-mol at 60° F |       |

### III. CO Emissions

#### Short-term Refinery Blend Gas Emissions

$$73.50 \frac{\text{MMBtu}}{\text{hr}} * 0.08 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{6.03 \frac{\text{lb CO}}{\text{hr}}}$$

#### Short-term Pilot Gas Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{0.06 \frac{\text{lb CO}}{\text{hr}}}$$

#### Annual Refinery Blend Gas Emissions

$$70.00 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{25.14 \frac{\text{ton CO}}{\text{yr}}}$$

#### Annual Pilot Gas Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.082 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.28 \frac{\text{ton CO}}{\text{yr}}}$$

### IV. NO<sub>x</sub> Emissions

#### Short-term Refinery Blend Gas Emissions

$$73.50 \frac{\text{MMBtu}}{\text{hr}} * 0.070 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{5.15 \frac{\text{lb NO}_x}{\text{hr}}}$$

#### Short-term Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{0.08 \frac{\text{lb NO}_x}{\text{hr}}}$$

#### Annual Refinery Blend Gas Emissions

$$70.00 \frac{\text{MMBtu}}{\text{hr}} * 0.070 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{21.46 \frac{\text{ton NO}_x}{\text{yr}}}$$

#### Annual Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.34 \frac{\text{ton NO}_x}{\text{yr}}}$$

## V. VOC Emissions

### Short-term Refinery Blend Gas Emissions

$$73.50 \frac{\text{MMBtu}}{\text{hr}} * 0.0050 \frac{\text{lb VOC}}{\text{MMBtu}} = \boxed{0.37 \frac{\text{lb VOC}}{\text{hr}}}$$

### Short-term Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.0050 \frac{\text{lb VOC}}{\text{MMBtu}} = \boxed{0.004 \frac{\text{lb VOC}}{\text{hr}}}$$

### Annual Refinery Blend Gas Emissions

$$70.00 \frac{\text{MMBtu}}{\text{hr}} * 0.0050 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{1.53 \frac{\text{ton VOC}}{\text{yr}}}$$

### Annual Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.0050 \frac{\text{lb VOC}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.02 \frac{\text{ton VOC}}{\text{yr}}}$$

## VI. PM<sub>10</sub> Emissions

### Short-term Refinery Blend Gas Emissions

$$73.50 \frac{\text{MMBtu}}{\text{hr}} * 0.0074 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = \boxed{0.54 \frac{\text{lb PM}_{10}}{\text{hr}}}$$

### Short-term Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{hr}} * 0.0074 \frac{\text{lb PM}_{10}}{\text{MMBtu}} = \boxed{0.01 \frac{\text{lb PM}_{10}}{\text{hr}}}$$

### Annual Refinery Blend Gas Emissions

$$70.00 \frac{\text{MMBtu}}{\text{yr}} * 0.0074 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{2.27 \frac{\text{ton PM}_{10}}{\text{yr}}}$$

### Annual Pilot Emissions

$$0.79 \frac{\text{MMBtu}}{\text{yr}} * 0.0074 \frac{\text{lb PM}_{10}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.03 \frac{\text{ton PM}_{10}}{\text{yr}}}$$

## VII. SO<sub>x</sub> Emissions

### Short-term Refinery Blend Gas Emissions

|       |                    |   |                   |                                                   |   |                       |                                                 |   |                    |                                                    |
|-------|--------------------|---|-------------------|---------------------------------------------------|---|-----------------------|-------------------------------------------------|---|--------------------|----------------------------------------------------|
| 73.50 | <u>MMBtu</u><br>hr | * | <u>1</u><br>815   | <u>MMscf fuel gas</u><br>MMBtu                    | * | <u>162</u><br>1       | <u>scf H<sub>2</sub>S</u><br>MMscf fuel gas     | * | <u>1</u><br>385.40 | <u>mole H<sub>2</sub>S</u><br>scf H <sub>2</sub> S |
|       |                    | * | <u>34.06</u><br>1 | <u>lb H<sub>2</sub>S</u><br>mole H <sub>2</sub> S | * | <u>64.04</u><br>34.06 | <u>lb SO<sub>2</sub></u><br>lb H <sub>2</sub> S | = | 2.43               | <u>lb SO<sub>x</sub></u><br>hr                     |

### Short-term Pilot Emissions

|     |                  |   |                   |                             |   |                  |                                   |   |               |                                       |
|-----|------------------|---|-------------------|-----------------------------|---|------------------|-----------------------------------|---|---------------|---------------------------------------|
| 776 | <u>scf</u><br>hr | * | <u>2.5</u><br>100 | <u>grains Sulfur</u><br>scf | * | <u>1</u><br>7000 | <u>lb Sulfur</u><br>grains Sulfur | * | <u>2</u><br>1 | <u>lb SO<sub>2</sub></u><br>lb Sulfur |
|     |                  |   |                   |                             |   |                  |                                   | = | 0.01          | <u>lb SO<sub>x</sub></u><br>hr        |

### Annual Refinery Blend Gas Emissions

|       |                    |   |                   |                                                   |   |                       |                                                 |   |                    |                                                    |
|-------|--------------------|---|-------------------|---------------------------------------------------|---|-----------------------|-------------------------------------------------|---|--------------------|----------------------------------------------------|
| 70.00 | <u>MMBtu</u><br>hr | * | <u>1</u><br>815   | <u>MMscf fuel gas</u><br>MMBtu                    | * | <u>50</u><br>1        | <u>scf H<sub>2</sub>S</u><br>MMscf fuel gas     | * | <u>1</u><br>385.40 | <u>mole H<sub>2</sub>S</u><br>scf H <sub>2</sub> S |
|       |                    | * | <u>34.06</u><br>1 | <u>lb H<sub>2</sub>S</u><br>mole H <sub>2</sub> S | * | <u>64.04</u><br>34.06 | <u>lb SO<sub>2</sub></u><br>lb H <sub>2</sub> S | * | <u>1</u><br>2000   | <u>ton</u><br>lbs                                  |
|       |                    |   |                   |                                                   | * | <u>8760</u><br>1      | <u>hr</u><br>yr                                 | = | 3.12               | <u>ton SO<sub>x</sub></u><br>yr                    |

### Annual Pilot Emissions

|     |                  |   |                   |                             |   |                  |                                   |   |               |                                       |
|-----|------------------|---|-------------------|-----------------------------|---|------------------|-----------------------------------|---|---------------|---------------------------------------|
| 776 | <u>scf</u><br>hr | * | <u>2.5</u><br>100 | <u>grains Sulfur</u><br>scf | * | <u>1</u><br>7000 | <u>lb Sulfur</u><br>grains Sulfur | * | <u>2</u><br>1 | <u>lb SO<sub>2</sub></u><br>lb Sulfur |
|     |                  | * | <u>8760</u><br>1  | <u>hrs</u><br>yr            | * | <u>1</u><br>2000 | <u>ton</u><br>lbs                 | = | 0.02          | <u>ton SO<sub>x</sub></u><br>yr       |

**Exxon Mobil Corporation**  
**Baytown Chemical Plant**  
**Olefins and Aromatics**  
**Renewal Application For Flexible Permit No. 20211**  
**Chapter 3**  
**Furnace F-507 (EPN: F507TDU)**  
**December 2016**

**I. Emission Summary**

| Compound         | Short-Term Emissions |       |       | Annual Emissions   |       |       |
|------------------|----------------------|-------|-------|--------------------|-------|-------|
|                  | Refinery Blend Gas   | Pilot | Total | Refinery Blend Gas | Pilot | Total |
|                  | lb/hr                | lb/hr | lb/hr | tpy                | tpy   | tpy   |
| CO               | 1.11                 | 0.01  | 1.12  | 3.23               | 0.05  | 3.28  |
| NO <sub>x</sub>  | 0.92                 | 0.01  | 0.93  | 2.68               | 0.04  | 2.73  |
| VOC              | 0.05                 | 0.00  | 0.05  | 0.14               | 0.00  | 0.14  |
| PM <sub>10</sub> | 0.07                 | 0.00  | 0.07  | 0.20               | 0.00  | 0.21  |
| SO <sub>x</sub>  | 0.31                 | 0.00  | 0.31  | 0.28               | 0.00  | 0.28  |

**II. Basis**

Furnace F-507 (FIN TDUF507, EPN F507TDU) is fueled by refinery blend gas (RBG) and has pilots that burn natural gas. SO<sub>x</sub> emissions are based upon the H<sub>2</sub>S concentration in the refinery blend gas (50 ppmv annually and 162 ppmv short-term maximum) and the natural gas contract guarantee of grains of sulfur/scf. All other factors are from AP-42, Tables 1.4-1 and 1.4-2, Fifth Edition, Supplement D, dated 7/98.

Emission Factors Summary:

Refinery Blend Gas

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>                          | <u>Basis</u>                                             |
|------------------|---------------|--------------------------------------|----------------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu                             | AP-42, Table 1.4-1                                       |
| CO               | 0.118         | lb/MMBtu                             | Stack test conducted February 22, 2007                   |
| VOC              | 0.005         | lb/MMBtu                             | AP-42, Table 1.4-2                                       |
| PM <sub>10</sub> | 0.0074        | lb/MMBtu                             | AP-42, Table 1.4-2                                       |
| SO <sub>x</sub>  | 50            | H <sub>2</sub> S ppmv annual average | H <sub>2</sub> S concentration in the refinery blend gas |
| SO <sub>x</sub>  | 162           | H <sub>2</sub> S ppmv short-term max | H <sub>2</sub> S concentration in the refinery blend gas |

Note: Refinery Blend gas HHV can range from 800 -1600 btu/scf; for determining AP-42 factors, BTCP uses 1020 btu/scf. For determining SO<sub>2</sub> emissions,

Pilots

| <u>Pollutant</u> | <u>Factor</u> | <u>Unit</u>           | <u>Basis</u>                                      |
|------------------|---------------|-----------------------|---------------------------------------------------|
| NO <sub>x</sub>  | 0.098         | lb/MMBtu              | AP-42, Table 1.4-1                                |
| CO               | 0.118         | lb/MMBtu              | Stack test conducted February 22, 2007            |
| VOC              | 0.005         | lb/MMBtu              | AP-42, Table 1.4-2                                |
| PM <sub>10</sub> | 0.0074        | lb/MMBtu              | AP-42, Table 1.4-2                                |
| SO <sub>x</sub>  | 2.5           | sulfur grains/100 scf | Contract guarantee of sulfur level in natural gas |

Note: There is some variation in the heat value of natural gas, for determining AP-42 factors, BTCP uses 1020 btu/scf.

Additional Parameters

|                                    |       |                     |       |
|------------------------------------|-------|---------------------|-------|
| Average Firing Rate:               | 6.25  | MMBtu/hr            | (HHV) |
| Maximum Firing Rate:               | 9.43  | MMBtu/hr            | (HHV) |
| Total Number of Pilots:            | 1     |                     |       |
| Total Pilot Firing Rate:           | 0.10  | MMBtu/hr            | (HHV) |
| Operating Time:                    | 8,760 | hr/yr               |       |
| Fuel Gas heating value (HHV):      | 815   | Btu/scf             |       |
| Total Natural Gas Pilot flow rate: | 97    | scf/hr              |       |
| Conversion Factor:                 | 385.4 | scf/lb-mol at 60° F |       |

### III. CO Emissions

#### Short-term Refinery Blend Gas Emissions

$$9.43 \frac{\text{MMBtu}}{\text{hr}} * 0.118 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{1.11 \frac{\text{lb CO}}{\text{hr}}}$$

#### Short-term Pilot Gas Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.118 \frac{\text{lb CO}}{\text{MMBtu}} = \boxed{0.01 \frac{\text{lb CO}}{\text{hr}}}$$

#### Annual Refinery Blend Gas Emissions

$$6.25 \frac{\text{MMBtu}}{\text{hr}} * 0.118 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8,760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{3.23 \frac{\text{ton CO}}{\text{yr}}}$$

#### Annual Pilot Gas Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.118 \frac{\text{lb CO}}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8,760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.05 \frac{\text{ton CO}}{\text{yr}}}$$

### IV. NO<sub>x</sub> Emissions

#### Short-term Refinery Blend Gas Emissions

$$9.43 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{0.92 \frac{\text{lb NO}_x}{\text{hr}}}$$

#### Short-term Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} = \boxed{0.01 \frac{\text{lb NO}_x}{\text{hr}}}$$

#### Annual Refinery Blend Gas Emissions

$$6.25 \frac{\text{MMBtu}}{\text{hr}} * 0.098 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8,760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{2.68 \frac{\text{ton NO}_x}{\text{yr}}}$$

#### Annual Pilot Emissions

$$0.10 \frac{\text{MMBtu}}{\text{hr}} * 0.10 \frac{\text{lb NO}_x}{\text{MMBtu}} * \frac{1}{2,000} \frac{\text{ton}}{\text{lb}} * \frac{8,760}{1} \frac{\text{hr}}{\text{yr}} = \boxed{0.04 \frac{\text{ton NO}_x}{\text{yr}}}$$

**ExxonMobil**  
**Baytown Chemical Plant**  
**Lubricating Oil Unit NSR Permit Amendment**  
**Heater Emission Calculations**  
**EPN MPUF2074**

**Emission Factors**

| VOC <sup>[1]</sup><br>(lb/MMScf) | NOx <sup>[2]</sup><br>(lb/MMBtu) | CO <sup>[2]</sup><br>(lb/MMBtu) | PM <sub>10</sub> /PM <sub>2.5</sub> <sup>[1]</sup><br>(lb/MMScf) |             |
|----------------------------------|----------------------------------|---------------------------------|------------------------------------------------------------------|-------------|
| 4.4                              | 0.1                              | 0.04                            | 6.1                                                              | Blend Gas   |
| 5.5                              | 0.1                              | 0.04                            | 7.6                                                              | Natural Gas |

| Plant Blend Gas Flow Rate <sup>[3]</sup> |                  | Firing Rate           |                       | Blend Gas H <sub>2</sub> S Concentration |                  | Pilot Flow Rate<br>(cfm) | Sulfur Content in Natural Gas<br>(grain/100 scf) |
|------------------------------------------|------------------|-----------------------|-----------------------|------------------------------------------|------------------|--------------------------|--------------------------------------------------|
| Maximum<br>(scfm)                        | Annual<br>(scfm) | Maximum<br>(MMBtu/hr) | Average<br>(MMBtu/hr) | Maximum<br>(ppmv)                        | Annual<br>(ppmv) |                          |                                                  |
| 429                                      | 307              | 21.0                  | 15.0                  | 300                                      | 60               | 1.23                     | 2.5                                              |

| MPUF2074 | VOC Emissions |          | NOx Emissions |       | CO Emissions |       | PM <sub>10</sub> Emissions |          | PM <sub>2.5</sub> Emissions |          | SO <sub>2</sub> Emissions |          | H <sub>2</sub> SO <sub>4</sub> Emissions <sup>[4]</sup> |          | H <sub>2</sub> S Emissions <sup>[5]</sup> |          |
|----------|---------------|----------|---------------|-------|--------------|-------|----------------------------|----------|-----------------------------|----------|---------------------------|----------|---------------------------------------------------------|----------|-------------------------------------------|----------|
|          | (lb/hr)       | (tpy)    | (lb/hr)       | (tpy) | (lb/hr)      | (tpy) | (lb/hr)                    | (tpy)    | (lb/hr)                     | (tpy)    | (lb/hr)                   | (tpy)    | (lb/hr)                                                 | (tpy)    | (lb/hr)                                   | (tpy)    |
| Burners  | 0.11          | 0.35     | 2.10          | 6.57  | 0.84         | 2.63  | 0.16                       | 0.49     | 0.16                        | 0.49     | 1.30                      | 0.82     | 0.10                                                    | 0.06     | 0.01                                      | 0.01     |
| Pilot    | 4.04E-04      | 1.77E-03 | 0.01          | 0.03  | 3.00E-03     | 0.01  | 5.59E-04                   | 2.45E-03 | 5.59E-04                    | 2.45E-03 | 5.26E-04                  | 2.30E-03 | 4.03E-05                                                | 1.76E-04 | 5.59E-06                                  | 2.45E-05 |
| Total    | 0.11          | 0.36     | 2.11          | 6.60  | 0.84         | 2.64  | 0.16                       | 0.49     | 0.16                        | 0.49     | 1.30                      | 0.82     | 0.10                                                    | 0.06     | 0.01                                      | 0.01     |

**Notes:**

1. AP-42 emission factors were adjusted to use the average high heating value of Plant Blend Gas of 815 Btu/scf.
2. CO emission factor was provided by the vendor. NOx emission factor based on BACT for heater greater than 40 MMBtu/hr.
3. The furnace combusts a vent gas stream at a flow rate of approximately 48 cfm. However, emission estimates and Plant Blend Gas flow rates conservatively assume 100% of Btu is from firing Plant Blend Gas.
4. H<sub>2</sub>SO<sub>4</sub> emissions based on a conversion of 5% of SO<sub>2</sub>.
5. H<sub>2</sub>S emissions based on 2% un-combusted H<sub>2</sub>S.

**From:** Richard Goertz  
**Sent:** Thursday, July 31, 2025 8:23 AM  
**To:** naomi.e.mcelroy@exxonmobil.com  
**Subject:** FW: Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** RFI 7-25-2025.xlsx; Draft Internal 7-25-2025.docx; Summary Table.docx

Forgot to attach summary table for the new PAL 16

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**From:** Richard Goertz  
**Sent:** Friday, July 25, 2025 3:33 PM  
**To:** [naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)  
**Subject:** Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant

Ms. Mcelroy

I have conducted the technical review of this application, and I have attached an electronic copy of the Working Draft Permit (WDP) for your review. This WDP contains the TCEQ determination of applicable requirements based on the information submitted in your application, and any updates provided.

Please review the WDP and submit to me any comments you have regarding it by August 26, 2025. Please submit a written response by this deadline, even if you are not making any comments on the content of the WDP. Note that any application updates necessary to make requested changes must accompany the WDP comments.

I have also noted a couple of issues related to the deficiency response submitted July 3, 2025. These issues are identified below and as issues 33 through 37 in the attached updated RFI. Please submit these updates along with comments to the draft permit. With respect to the OP-MONS received in the July 3 submittal, please confirm that what the periodic monitoring text is trying to convey is that the CO emission rates in the NSR MAERT for the subject units were based on a CO concentration of 400 ppmvd at 3% O<sub>2</sub> and that once per month, the hourly average fuel usage during the month, coupled with the CO emission factor, will be used to determine an emission rate that is then compared to the MAERT emission limit. Provided the calculated emission rate is less than the authorized emission rate, it will be assumed that the 400 ppmvd limit is not exceeded. If this is the case, please note the periodic monitoring text used previously for this scenario. If you agree, please update the periodic monitoring text portion OP-MON to incorporate. The draft currently reflects this language. You may submit a single OP-MON noting all the units on that page since everything is the same rather than submitting an individual form for each. Additionally, you will need to provide the representations used for the NSR permit for the record showing that the short-term emission rates were based on the CO concentration of 400 ppmvd at 3% O<sub>2</sub>.

**Periodic Monitoring Text:** Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the appropriate emission factor will be used to calculate the average hourly CO emissions. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. The calculated



average hourly CO emission rate for the source will be compared to the hourly CO permit limit in the NSR permit. If the average hourly emissions for the source are above the hourly permit limit, this will be considered and reported as a deviation

Please review the "SOP Technical Review Fact Sheet" located at [http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/sop\\_wdp\\_factsheet.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf). This guidance contains important information regarding the review process, application updates, WDP review and comment procedures.

Note that a Certification by Responsible Official (Form OP-CRO1) for any uncertified submittals, including application updates supporting the WDP comments will be required. Once we have concurrence with the draft, I will notify you of the dates to be certified.

As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov) and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at [Where to Submit FOP Applications and Permit-Related Documents](#).

Please let me know if you have any questions and I will contact you immediately.

**Major NSR Summary Table**

| Permit Number PAL16                                                                                                                                         |                   |                                |                |          | Issuance Date: April 25, 2025                                                                |                                                     |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|----------------|----------|----------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|
| Emission Point No. (1)                                                                                                                                      | Source Name (2)   | Air Contaminant Name (3)       | Emission Rates |          | Monitoring and Testing Requirements                                                          | Recordkeeping Requirements                          | Reporting Requirements                    |
|                                                                                                                                                             |                   |                                | lb/hr          | TPY (4)  | Special Condition/Application Information                                                    | Special Condition/Application Information           | Special Condition/Application Information |
| All Facilities, Units, Emission Points and Activities at Exxon Mobil Baytown Chemical Plant, Regulated Entity Number RN102574803 Emitting the PAL Pollutant | Pal Emission CAPs | VOC                            | -              | 1,310.50 | 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29 | 4, 7, 9, 10, 15, 18, 19, 20, 23, 25, 26, 27, 28, 30 | 4, 29, 31                                 |
|                                                                                                                                                             |                   | NO <sub>x</sub>                | -              | 445.20   |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | PM                             | -              | 274.70   |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | PM <sub>10</sub>               | -              | 244.07   |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | PM <sub>2.5</sub>              | -              | 116.20   |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | CO                             | -              | 633.40   |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | SO <sub>2</sub>                | -              | 85.59    |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | H <sub>2</sub> SO <sub>4</sub> | -              | 8.40     |                                                                                              |                                                     |                                           |
|                                                                                                                                                             |                   | H <sub>2</sub> S               | -              | 11.17    |                                                                                              |                                                     |                                           |

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

SO<sub>2</sub> - sulfur dioxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

H<sub>2</sub>S - hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.



**From:** Richard Goertz  
**Sent:** Friday, July 25, 2025 3:33 PM  
**To:** naomi.e.mcelroy@exxonmobil.com  
**Subject:** Technical Review & Working Draft Permit -- FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** RFI 7-25-2025.xlsx; Draft Internal 7-25-2025.docx

Ms. Mcelroy

I have conducted the technical review of this application, and I have attached an electronic copy of the Working Draft Permit (WDP) for your review. This WDP contains the TCEQ determination of applicable requirements based on the information submitted in your application, and any updates provided.

Please review the WDP and submit to me any comments you have regarding it by August 26, 2025. Please submit a written response by this deadline, even if you are not making any comments on the content of the WDP. Note that any application updates necessary to make requested changes must accompany the WDP comments.

I have also noted a couple of issues related to the deficiency response submitted July 3, 2025. These issues are identified below and as issues 33 through 37 in the attached updated RFI. Please submit these updates along with comments to the draft permit. With respect to the OP-MONS received in the July 3 submittal, please confirm that what the periodic monitoring text is trying to convey is that the CO emission rates in the NSR MAERT for the subject units were based on a CO concentration of 400 ppmvd at 3% O<sub>2</sub> and that once per month, the hourly average fuel usage during the month, coupled with the CO emission factor, will be used to determine an emission rate that is then compared to the MAERT emission limit. Provided the calculated emission rate is less than the authorized emission rate, it will be assumed that the 400 ppmvd limit is not exceeded. If this is the case, please note the periodic monitoring text used previously for this scenario. If you agree, please update the periodic monitoring text portion OP-MON to incorporate. The draft currently reflects this language. You may submit a single OP-MON noting all the units on that page since everything is the same rather than submitting an individual form for each. Additionally, you will need to provide the representations used for the NSR permit for the record showing that the short-term emission rates were based on the CO concentration of 400 ppmvd at 3% O<sub>2</sub>.

**Periodic Monitoring Text:** Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the appropriate emission factor will be used to calculate the average hourly CO emissions. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. The calculated average hourly CO emission rate for the source will be compared to the hourly CO permit limit in the NSR permit. If the average hourly emissions for the source are above the hourly permit limit, this will be considered and reported as a deviation

Please review the "SOP Technical Review Fact Sheet" located at [http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/sop\\_wdp\\_factsheet.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf). This guidance contains important information regarding the review process, application updates, WDP review and comment procedures.

Note that a Certification by Responsible Official (Form OP-CRO1) for any uncertified submittals, including application updates supporting the WDP comments will be required. Once we have concurrence with the draft, I will notify you of the dates to be certified.

As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov) and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at [Where to Submit FOP Applications and Permit-Related Documents](#).

Please let me know if you have any questions and I will contact you immediately.

| Unit(s)/Group                                            | Unit Identifying form | Form w/issue | Issue                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------|-----------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DEGBPBMEDC<br>DEGPAPMEC<br>DEGBCCOMP<br>DEGBTMAC         | UA-16                 | UA-16        | On page 1 of the attributes provided for Index number R5412, pursuant to the form instructions a value for the parameter column "Solvent Heated" (column 8) should be provided. Please update the form to provide a value for this property.                                                                                                          |
| TK2048<br>TK3196                                         | UA-03                 | UA-03        | On page 54 of the attributes provided for Index number 63FFFF, pursuant to the form instructions a value for the parameter column "Slotted Guidepole" (column 4) should be provided. Please update the form to provide a value for this property.                                                                                                     |
| LAUF3629A<br>SPUF3629B                                   | UA-06                 | UA-06        | Please let me know if either of the boilers were RECONSTRUCTED after 2005. If so, which one or both.                                                                                                                                                                                                                                                  |
| LAUF3629A                                                | UA06                  | UA06         | For index numbers 60Db-1 and 60Db-2, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                  |
| SPUF3629B                                                | UA06                  | UA06         | For index numbers 60Db-3 and 60Db-4, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                  |
| TK1016<br>TK0103<br>TK0104<br>TK1004<br>TK5015<br>TK5031 | OP-REQ2               | OP-REQ2      | Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 115.112(a)(1) with a negative applicability reason of "Storage Tank does not store a VOC". Since 116.112 relates to control requirements rather than applicability, Instances citing 115.112(a)(1) may be better reflective by citing 115.110(a) |
| LPUR601/602                                              | UA15                  | OP-REQ2      | The unit is currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a negative applicability reason of "Equipment does not vent to the atmosphere". 101.10(113) cites the definition for a vapor-mounted seal. Please update the citation and reason demonstrating negative applicability          |

PPBN800ABC  
PPCL801  
PPCL831  
PPCY501  
PPD4122  
PPD4127  
PPD4720A/B  
PPD4743  
PPD8122  
PPDC4750  
PPDC8750  
PPDC8752  
PPDR4751  
PPDR8751  
PPEX501  
PPEX801  
PPEX831  
PPR4124-PPR4125  
PPR4710  
PPR4711-PPR4712  
PPR8124  
PPR8710-PPR8711

|         |         |         |
|---------|---------|---------|
| PPT4401 |         |         |
| PPT4403 |         |         |
| PPT4740 | OP-REQ2 | OP-REQ2 |

Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a negative applicability reason of "Equipment does not vent to the atmosphere". 101.10(113) cites the definition for a vapor-mounted seal. Please update the citation and reason demonstrating negative applicability

|               |      |         |
|---------------|------|---------|
| TK2000        |      |         |
| TK2048        |      |         |
| TK2081-TK2083 |      |         |
| TK2090-TK2091 |      |         |
| TK40013       |      |         |
| TK4016-TK4017 | UA03 | OP-REQ2 |

Units are currently representing negative applicability to Part 61 Subpart FF by referencing citations 61.341 and 61.342(c)(1)(iii) with a negative applicability reason of "Does not store Benzene Waste". Applicability citation 61.340(b) references benzene-containing hazardous waste and is used as the basis for negative determination in other instances. The more appropriate citation would be 61.340 or 61.340(b) for the reason specified. Please consider updating the citation reference.

|        |         |         |
|--------|---------|---------|
| TK0025 | OP-REQ2 | OP-REQ2 |
|--------|---------|---------|

The unit is currently representing negative applicability to Chapter 115, Storage tanks by referencing 115.112(a)(1) with a negative applicability reason of "VOC TVP < 1.5 psia". 115.112 pertains to control requirements. Pursuant to 115.111(a)(1), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is still subject to the recordkeeping requirements of 115.118. Unless another citation/reason demonstrating negative applicability to the rule can be provided, UA-03 data for the unit/rule should be provided.

|                 |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TK0095          |         |         | Units are currently representing negative applicability to 40 CFR Part 63, Subpart U by referencing 63.480(g) with a negative applicability reason of "The source does not meet the definition of a MACT U storage vessel in 63.482, since the capacity is less than 38 cubic meters.". Pursuant to Table 3 and Table 4 of MACT U, a storage vessel with a capacity less than 38 cubic meters does not constitute a Group 1 storage vessel. However, pursuant to 63.482, a storage vessel that does not fall within the definition of a Group 1 storage vessel is classified as a Group 2 storage vessel. 63.480(g) does not appear to provide an exclusion for a Group 2 storage vessel. Unless another citation/reason demonstrating negative applicability to the rule can be provided, the appropriate UA form conveying data for the unit/rule should be provided. |
| TK0097          |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TK0098          |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TK0450A         |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TK0701          | UA03    | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCUD123A        |         |         | Units are currently representing negative applicability to Chapter 117 with a negative applicability reason of "Does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| PCUD123C        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCUD124A        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCUD124B        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCUD126A        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PCUD126B        | UA15    | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                 |         |         | Unit is currently representing negative applicability to Chapter 117 with a negative applicability reason of "Thermal oxidizer does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RGTO            | OP-REQ2 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                 |         |         | Units are currently representing negative applicability to MACT DDDDD with a negative applicability reason of "Equipment's primary purpose is not to transfer heat to a process material or to a heat transfer material.". Might be better to say that the units do not meet the definition of boiler or process heater in 63.7575.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| F1106SGU        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| F1206SGU        | OP-REQ2 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| FHBVE01         |         |         | Units are currently representing negative applicability to MACT G by referencing 63.100(b) with a negative applicability reason of "Facility does not use as a reactant, product, or co-product any HAPs listed in Table 2 of subpart F" which corresponds to 63.100(b)(2). Pursuant to 63.100(c), provided a source meets 63.100(b)(1) and 63.100(b)(3), a source may not meet 63.100(b)(2) and still be applicable to requirements of the rule. Please update OP-REQ 2 information that specifically reflects negative applicability to the rule.                                                                                                                                                                                                                                                                                                                     |
| FHBVE03-FHBVE09 |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| FHBVE11         |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RHBD115         |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| RHBD306         |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| VEFINISH        | UA15    | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



|               |      |         |                                                                                                                                                                                                                                                                                                                                         |
|---------------|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TK0208        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0662        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0668        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0670        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0671        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0709        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0711-TK0714 |      |         | Units are currently representing negative applicability to MACT G by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not |
| TK1011        |      |         | manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does                                                                                                                                                                                                                     |
| TK3000        |      |         | not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air                                                                                                                                                                                                                              |
| TK3001        |      |         | pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include                                                                                                                                                                                                                       |
| TK3011        |      |         | the specific pollutants of 63.100(b)(1)(ii)                                                                                                                                                                                                                                                                                             |
| TK3013        |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK3020-TK3024 | UA03 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                         |
|               |      |         |                                                                                                                                                                                                                                                                                                                                         |
| VE01GAR       |      |         | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "Unit is not part of a HON Chemical Manufacturing Process Unit". Pursuant to the                                                                                                                        |
| VE02GAR       | UA03 |         | definition of Process Unit in 63.101 it might be better to say that "Unit is not part of a HON Chemical                                                                                                                                                                                                                                 |
|               |      |         | Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON" Please                                                                                                                                                                                                                         |
|               |      |         | update the negative applicability reason as appropriate.                                                                                                                                                                                                                                                                                |
|               |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0628        | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT H by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not |
|               |      |         | manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does                                                                                                                                                                                                                     |
|               |      |         | not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air                                                                                                                                                                                                                              |
|               |      |         | pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include                                                                                                                                                                                                                       |
|               |      |         | the specific pollutants of 63.100(b)(1)(ii)                                                                                                                                                                                                                                                                                             |
|               |      |         |                                                                                                                                                                                                                                                                                                                                         |
| TK0016A       |      |         | Units are currently representing negative applicability to MACT U by referencing 63.480 or 63.480(c)(8) with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or                                                                                                               |
| TK0025        |      |         | contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service"                                                                                                                                                                                                                       |
| TK0017        | UA03 | OP-REQ2 | contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does                                                                                                                                                                                                                         |
|               |      |         | not account for this condition. Better reason would be "Source is located at an EPPU but does not contain                                                                                                                                                                                                                               |
|               |      |         | organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the                                                                                                                                                                                                                           |
|               |      |         | negative applicability citation and text as appropriate.                                                                                                                                                                                                                                                                                |

|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TK0019        |      |         | Units are currently representing negative applicability to MACT U by referencing 63.482 with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service" contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does not account for this condition. Better reason would be "Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the negative applicability text as appropriate. |
| TK0021        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0024        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0102        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0113        | UA03 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| BAPPEGEN1     |      |         | Units are currently representing negative applicability to MACT ZZZZ by referencing 63.6590(b)(3) or 63.6590(b)(3)(iii) with a negative applicability reason of "Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002". The correct citation that includes this language is 63.6590(b)(3)(i). Please update the citation accordingly.                                                                                                                                                                                                                                                                                               |
| CAPGEN        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| EN01RES       | UA02 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0030        |      |         | Units are currently representing negative applicability to NSPS K by referencing 60.110(a) with a negative applicability reason of "Constructed before 06/11/1973". The correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TK0070        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | UA03 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0662        |      |         | Units are currently representing negative applicability to NSPS K by referencing 60.110(c)(2) with a negative applicability reason of "Does not store petroleum liquids". The correct citation that references storage of petroleum liquids is 60.110(a). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                               |
| TK0668        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0671        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0709        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0711-TK0714 |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3000        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3001        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3020-TK3023 |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3100        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3107        |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK3110        | UA03 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK4013        |      |         | Units are currently representing negative applicability to NSPS K by referencing 60.110(b)(2) with a negative applicability reason of "Constructed after 5/18/1978". 60.110(b)(2) does not exist. The correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                        |
| TK4015-TK4017 |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               | UA03 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|               |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TK0718        | UA03 | OP-REQ2 | The unit is currently representing negative applicability to NSPS Ka by referencing 60.110a(a) with a negative applicability reason of "Constructed before 07/23/1984". NSPS Ka is potentially applicable to tanks constructed after May 18, 1978 and before July 23, 1984. Thus, based on the reason, the tank is still potentially applicable to the rule. Please update information as necessary.                                                                                                                                                                                                                                                                                                            |

|                                           |         |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------|---------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TK3020<br>TK3021                          | UA03    | OP-REQ2                 | The unit is currently representing negative applicability to NSPS Kb by referencing 60.110b(a) with a negative applicability reason of "Constructed before 07/23/1984". The citation that references construction date is 60.110b(a) Please update information as necessary.                                                                                                                                                                                                      |
| BPBWWC                                    | UA19    | OP-REQ2                 | The unit is currently representing negative applicability to MACT G by referencing 63.132 with a negative applicability reason of "No affected wastewater streams". The citation refers to process wastewater provisions and not applicability to the rule. It is unclear how negative applicability to the rule is being claimed by this citation. Please provide an explanation for the current combination or provide a new citation supporting the negative determination.    |
| BUTYLSUP<br>NRUSEP<br>NWCSEP101<br>TDUSEP | UA14    | OP-REQ2                 | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                                          |
| BUTYLSEP<br>NRUSEP<br>TDUSEP              | UA14    | OP-REQ2                 | Units are currently representing negative applicability to Part 61 Subpart F by referencing 61.341 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                               |
| Various                                   | Various | OP-SUM                  | The attached spreadsheet notes unit occurrences which do not have PAL16 as a permit related to the unit. Please verify which units should have PAL16 as a represented permit. If it is easier, you may just respond that all need it or identify the ones that don't.                                                                                                                                                                                                             |
| N/A                                       | N/A     | Major NSR Summary Table | Attached is the Major NSR Summary Table for NSR permit 20211/PAL16 incorporating the changes to the MAERT in the amendment issued April 22, 2025. Please update the Table to reflect any changes with respect to terms and conditions. The new units added in the project are currently redline in the table. I see you have been sent the draft permit for the pending revision for the permit. You may reflect any additional changes being authorized in this project as well. |

BHUF100A  
IBUF730A/B/C  
LPUF101A  
LPUF102SH  
LPUF203  
MPUF2074  
NRUF1  
NRUF1A  
NRUF6  
NRUH2  
NRUH3  
PFUF501  
PFUF510  
PFUF530  
PTUF301  
TDUF501  
TDUF507

UA05

OP-MON

For index number R7300, Pollutant = CO: Based on the information provided and the requirements identified, Periodic monitoring is required. Canned options previously approved include PM-C-001 and PM-C-002. Please provide monitoring for these requirements identifying one of the canned options or a proposed case-by-case monitoring plan.

TK3192

UA03

OP-2

Updated OP-2 indicates that unit is authorized by NSR permits 96220, 149177, and PAL16. It is currently represented that the unit is authorized by NSR permits 149177, PAL16, and PBR 106.261 (version 11/01/2003, registration number 175762). If we are updating the NSR authorizations for this unit to remove the PBR, this will likely affect the OP-PBRSUP document.

TK3196

UA03

OP-2

Updated OP-2 indicates that unit is authorized by NSR permits 96220, 149177, and PAL16. It is currently represented that the unit is authorized by NSR permits 149177, PAL16, and PBR 106.261 (version 11/01/2003, registration number 164637). If we are updating the NSR authorizations for this unit to remove the PBR, this will likely affect the OP-PBRSUP document.

TK0628

UA03

OP-REQ2

Deficiency number 18 above references negative applicability for MACT H. The updates to the OP-REQ2 show negative applicability to MACT G. Should the MACT H occurrence be removed and replaced with the MACT G occurrence?

LPUF101A  
LPUF102SH  
LPUF203

UA05

OP-MON

Submittal of OP-MON for these units was not included in response to issue 32

NA

NA

**Major NSR Summary Table**

It has been discovered that in the April 25, 2025 amendment, the PAL permit was segregated from the NSR permit and is now stand alone. This being the case, only the MAERT and conditions associated with the PAL permit are included in the Summary Table. I have make a pass through the PAL permit conditions and have included reference to the appropriate category in the summary table contained in the draft based on my opinion. Please have a look and update as you feel appropriate

**From:** Mcelroy, Naomi E <naomi.e.mcelroy@exxonmobil.com>  
**Sent:** Thursday, July 3, 2025 11:27 AM  
**To:** Richard Goertz  
**Cc:** Thanapal, Siva Sankar; R6AirPermitsTX@epa.gov; R12APDMail  
**Subject:** RE: FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** 2025-07-03 FOP O226\_Project 37612 NOD1 - Response.pdf; 2025-07-03 FOP O226\_Project 37612 NOD1 - 20211 Draft Summary Table.docx

Mr. Goertz,

Please find included in the attached document all relevant forms responding to “RFI 6-6-2025 updated 6-10-2025” as provided in your emails dated June 6, 2025 and June 10, 2024:

- OP-2
- UA-3
- UA-6
- UA-15
- UA-16
- OP-MON
- OP-REQ2
- Major NSR Summary Table

For Issue 30, all units in question should list PAL16 as a represented permit.

In addition, an updated OP-1 form is included to update the technical contact to me, Naomi McElroy, Air Permits Advisor.

If you have any questions regarding this submittal or should you require any additional information, please contact me at 254-545-3160 or via e-mail at [naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com).

Sincerely,

**Naomi McElroy**  
Environmental Advisor

**Exxon Mobil Corporation**  
5000 Bayway Drive  
Baytown, TX 77520  
(254) 545-3160  
[naomi.e.mcelroy@exxonmobil.com](mailto:naomi.e.mcelroy@exxonmobil.com)

**Section 1: General and Administrative Forms**  
**Form OP-1**  
**Form OP-2**

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 3)  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VII. Technical Contact Identifying Information</b> <i>(Complete if different from RO.)</i>                                                                                                                                              |
| Technical Contact Name Prefix: ( <input type="checkbox"/> Mr. <input checked="" type="checkbox"/> <b>Mrs.</b> <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)                                                                   |
| Technical Contact Full Name: <b>Naomi McElroy</b>                                                                                                                                                                                          |
| Technical Contact Title: <b>Air Permits Advisor</b>                                                                                                                                                                                        |
| Employer Name: Exxon Mobil Corporation                                                                                                                                                                                                     |
| Mailing Address: P.O. Box 4004                                                                                                                                                                                                             |
| City: Baytown                                                                                                                                                                                                                              |
| State: TX                                                                                                                                                                                                                                  |
| ZIP Code: 77522                                                                                                                                                                                                                            |
| Territory:                                                                                                                                                                                                                                 |
| Country:                                                                                                                                                                                                                                   |
| Foreign Postal Code:                                                                                                                                                                                                                       |
| Internal Mail Code:                                                                                                                                                                                                                        |
| Telephone No.: <b>(254) 545-3160</b>                                                                                                                                                                                                       |
| Fax No.:                                                                                                                                                                                                                                   |
| Email: <b>naomi.e.mcelroy@exxonmobil.com</b>                                                                                                                                                                                               |
| <b>VIII. Reference Only Requirements</b> <i>(For reference only.)</i>                                                                                                                                                                      |
| A. State Senator: Carol Alvarado                                                                                                                                                                                                           |
| B. State Representative: Briscoe Cain                                                                                                                                                                                                      |
| C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</span> |
| D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</span>                                               |
| E. Indicate the alternate language(s) in which public notice is required: Spanish                                                                                                                                                          |



**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 2  
Texas Commission on Environmental Quality**

|                                              |
|----------------------------------------------|
| Date: <b>07/03/2025</b>                      |
| Permit No.: <b>O2269</b>                     |
| Regulated Entity No.: <b>RN102574803</b>     |
| Company Name: <b>Exxon Mobil Corporation</b> |

Using the table below, provide a description of the revision.

| Revision No. | Revision Code | New Unit | Unit/Group | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                          |
|--------------|---------------|----------|------------|--------------------|----------------------|--------------------------------------------------------------------------------------------------------|
|              |               |          | ID No.     | Applicable<br>Form |                      |                                                                                                        |
| 1            | SIG-E         | NO       | TK9012     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 2            | SIG-E         | NO       | TK9016     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 3            | SIG-E         | NO       | TK9018     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 4            | SIG-E         | NO       | TK9020     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 5            | SIG-E         | NO       | TK9026     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2 | N/A                  | Adding new Unit ID to Title V Permit.<br><br>Add negative applicability for 40 CFR Part 60 Subpart Kb. |

| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                     |
|--------------|---------------|----------|------------|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2           | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 7            | SIG-E         | NO       | TK3196     | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                                                      |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 10           | SIG-E         | NO       | CT90       | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart Q.                                                                       |
| 11           | SIG-E         | NO       | TK0560     | OP-REQ2                      | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 12           | SIG-E         | NO       | BAPPEGEN1  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart ZZZZ.                                                                    |
| 13           | MS-C          | NO       | CT17       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF. |

| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                                                                                                                                                       |
|--------------|---------------|----------|------------|------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                                                                                                                                                  |
| 14           | MS-C          | NO       | CT18       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 15           | MS-C          | NO       | CT70       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 16           | MS-C          | NO       | FS09       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 17           | MS-C          | NO       | FS23       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 18           | MS-C          | NO       | FS24       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 19           | MS-C          | NO       | FS30       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 20           | MS-A          | NO       | BTCPFUG    | OP-SUMR<br>OP-PBRSUP         | 177978<br>178653  | Additional emissions requested to be authorized under PBRs 106.262/11/01/2003 (PBR Registration No. 177978) and 106.261/11/01/2003 / 106.262/11/01/2003 (PBR Registration No. 178653). This NSR permit action does not affect existing regulatory applicability. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                          | Process                      | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                                                                 |
|--------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                              | Applicable<br>Form           |                      |                                                                                                                                               |
| 21           | MS-C          | NO       | CT90                                                                                                                                                                                | OP-UA1<br>OP-REQ3            | N/A                  | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                  |
| 22           | MS-C          | Yes      | GRPBAPPPRD<br>PO-874<br>PO-5212<br>PO-5508-RD<br>PO-5533                                                                                                                            | OP-SUMR<br>OP-UA1<br>OP-REQ3 | N/A                  | Adding new Group ID to Title V Permit.<br>Adding new Unit IDs to Title V Permit.<br>Adding applicability for 40 CFR Part 63, Subpart FFFF.    |
| 23           | MS-C          | NO       | IBUF730A/B/C                                                                                                                                                                        | OP-UA5                       | N/A                  | Update fuel type for 30 TAC Chapter 117, Subchapter B.                                                                                        |
| 24           | MS-C          | NO       | NRUH2                                                                                                                                                                               | OP-UA5                       | N/A                  | Removed annual heat input entry for 30 TAC Chapter 117, Subchapter B.                                                                         |
| 25           | MS-C          | NO       | HRVOCATMVT<br>HRVOCVENTS<br>IBUF730A/B/C<br>MPUF2074<br>NRUF1<br>NRUF1A<br>NRUF6<br>NRUF9A/B<br>NRU2/3<br>PAUF311<br>PAUF321<br>PFUF501<br>PFUF510<br>PFUF530<br>TDUF501<br>TDUF507 | OP-UA15                      | N/A                  | Updating HRVOC emission estimation method during scheduled startup, shutdown, and maintenance activities in 30 TAC Chapter 115, Subchapter H. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                | Process         | NSR Authorization       | Description of Change and Provisional Terms and Conditions                                                             |
|--------------|---------------|----------|---------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                    | Applicable Form |                         |                                                                                                                        |
| 26           | MS-C          | NO       | See OP-REQ2                                                                                                               | OP-REQ2         | N/A                     | Updated citations and negative applicability reasons provided for Unit IDs in Information Request dated June 10, 2025. |
| 27           | MS-C          | NO       | F1106SGU,<br>F1206SGU,<br>TK0025                                                                                          | OP-REQ2         | N/A                     | Remove permit shield.                                                                                                  |
| 28           | MS-C          | NO       | TK0025                                                                                                                    | OP-UA3          | 20211, PAL16            | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 29           | MS-C          | NO       | TK2048,<br>TK3192,<br>TK3196                                                                                              | OP-UA3          | 96220, 141977,<br>PAL16 | Updated guidepole arrangement for 40 CFR 63, Subpart FFFF.                                                             |
| 30           | MS-C          | NO       | PPBN800ABC,<br>PPCL801,<br>PPCL831,<br>PPCY501,<br>PPDC4750,<br>PPDC8750,<br>PPDC8752,<br>PPEX501,<br>PPEX801,<br>PPEX831 | OP-UA15         | 8586                    | Add applicability to 30 TAC Chapter 115, Subchapter B.                                                                 |
| 31           | MS-C          | NO       | LAUF3629A,<br>SPUF3629B                                                                                                   | OP-UA6          | 149177                  | Updated unit attributes for 40 CFR Part 60, Subpart Db.                                                                |
| 32           | MS-C          | NO       | DEGBAPPMEC,<br>DEGBCCOMP,<br>DEGBPBMEC,<br>DEGBTCPMAC                                                                     | OP-UA16         | 8586, 9571              | Updated unit attributes for 30 TAC Chapter 115, Subchapter E.                                                          |
| 33           | MS-C          | NO       | See OP-MON                                                                                                                | OP-MON          | N/A                     | Add case-by-case Periodic Monitoring for heaters subject to 30 TAC Chapter 117.                                        |

## **Section 2: Emission Unit Information**

**Form UA-3**

**Form UA-6**

**Form UA-15**

**Form UA-16**

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 4)**  
**Federal Operating Permit Program**  
**Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| BTCPTOTE    | R5112-09          | NO                            |            | VOC1           | A1K-             |            |                   |                        |
| TK0015      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0016A     | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0019      | 5112-05           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0021      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0024      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0030      | 5112-05           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0063      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0064      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0065      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0068      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0070      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK0077      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0095      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0097      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0098      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0102      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0110      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0112      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0113      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0117      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0205      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0208      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0304      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0305      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0352      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0450A     | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0628      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0662      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0668      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0670      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |



| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK0671      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0701      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0709      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0710      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0711      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0712      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0713      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0714      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0718      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0810      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0816      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0890      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK1011      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK1123      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK1124      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2000      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2048      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2081      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2082      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK2083      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2090      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2091      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3000      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3001      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3011      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3013      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3014      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3021      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3022      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3052      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3053      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3055      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3056      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3056      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3100      | 5112-08           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3107      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3109      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3110      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK3192      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3196      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4010      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4011      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4012      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4013      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4014      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4015      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4016      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4017      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4024      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9008      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9010      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9010      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9012      | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9016      | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9018      | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9020      | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9026      | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No.   | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|---------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK9620        | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TKDIESL1      | R5112-09          | NO                            |            | VOC1           | A1K-             |            |                   |                        |
| VE01GAR       | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| VE02GAR       | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| <b>TK0025</b> | <b>R5112</b>      | <b>NO</b>                     |            | <b>VOC1</b>    | <b>A1K-25K</b>   |            |                   |                        |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 5)**  
**Federal Operating Permit Program**  
**Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Construction Date</b> | <b>Tank Description</b> | <b>True Vapor Pressure</b> | <b>Primary Seal</b> | <b>Secondary Seal</b> | <b>Control Device Type</b> | <b>Control Device ID No.</b> |
|--------------------|--------------------------|--------------------------|-------------------------|----------------------------|---------------------|-----------------------|----------------------------|------------------------------|
| TK0015             | R5112                    |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0016A            | R5112                    |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0019             | 5112-05                  |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0021             | 5112-06                  |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0024             | R5112                    |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0030             | 5112-05                  |                          | NONE1                   | 1-                         |                     |                       |                            |                              |
| TK0063             | 5112-07                  |                          | NONE1                   | 1-1.5                      |                     |                       |                            |                              |
| TK0064             | 5112-07                  |                          | NONE1                   | 1-1.5                      |                     |                       |                            |                              |
| TK0065             | R5112-04                 |                          | IFR1                    | 1.5+A                      |                     |                       |                            |                              |
| TK0068             | R5112-04                 |                          | IFR1                    | 1.5+A                      |                     |                       |                            |                              |
| TK0070             | 5112-07                  |                          | NONE1                   | 1-1.5                      |                     |                       |                            |                              |
| TK0077             | 5112-07                  |                          | NONE1                   | 1-1.5                      |                     |                       |                            |                              |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK0095      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0097      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0098      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0102      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0110      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0112      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0113      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0117      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0205      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0208      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0304      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0305      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0352      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0450A     | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0628      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0662      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0668      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0670      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0671      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK0701      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0709      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0710      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0711      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0712      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0713      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0714      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0718      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0810      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0816      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0890      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK1011      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK1123      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK1124      | R5112-03          |                   | WDEF1            | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK2000      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK2048      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK2081      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2082      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2083      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK2090      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2091      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3000      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3001      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3011      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3013      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3014      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3021      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3022      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3052      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3053      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3055      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3056      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3056      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3100      | 5112-08           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3107      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3109      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3110      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3192      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |



| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK3196      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4010      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK4011      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK4012      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK4013      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4014      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4015      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK4016      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4017      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK4024      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK9008      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK9010      | R5112             |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK9010      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK9012      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9016      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9018      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9020      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9026      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9620      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |

| Unit ID No.   | SOP/GOP<br>Index No. | Construction<br>Date | Tank<br>Description | True Vapor<br>Pressure | Primary Seal | Secondary Seal | Control Device<br>Type | Control Device<br>ID No. |
|---------------|----------------------|----------------------|---------------------|------------------------|--------------|----------------|------------------------|--------------------------|
| VE01GAR       | R5112                |                      | NONE1               | 1-                     |              |                |                        |                          |
| VE02GAR       | R5112                |                      | NONE1               | 1-                     |              |                |                        |                          |
| <b>TK0025</b> | <b>R5112</b>         |                      | <b>NONE1</b>        | <b>1-</b>              |              |                |                        |                          |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 54)**

**Federal Operating Permit Program**

**Table 21d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels**  
**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>07/03/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>WW Tank Control</b> | <b>Unslotted Guidepole</b> | <b>Slotted Guidepole</b> | <b>Seal Configuration</b> | <b>Inspection Requirement</b> |
|--------------------|----------------------|------------------------|----------------------------|--------------------------|---------------------------|-------------------------------|
| TK2048             | 63FFFF               | IFR                    | NO                         | NONE                     | IFR-MT                    |                               |
| TK3192             | 63FFFF               | IFR                    | NO                         | SLEEVE                   | IFR-MT                    |                               |
| TK3196             | 63FFFF               | IFR                    | NO                         | SLEEVE                   | IFR-MT                    |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |
|                    |                      |                        |                            |                          |                           |                               |

**Boiler/Steam Generator/Steam Generating Unit Attributes**

**Form OP-UA6 (Page 6)**

**Federal Operating Permit Program**

**Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 07/03/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Construction/<br>Modification<br>Date | Heat Input<br>Capacity | Subpart Da | Changes to<br>Existing<br>Affected<br>Facility | Subpart Ea,<br>Eb, AAAA, or<br>CCCC | Subpart<br>KKKK | Subpart Cb or<br>BBBB | Temporary<br>Boiler |
|-------------|---------------|---------------------------------------|------------------------|------------|------------------------------------------------|-------------------------------------|-----------------|-----------------------|---------------------|
| LAUF3629A   | 60Db-1        | 05+CR                                 | 250+                   | NO         | NO                                             | NO                                  | NO              | NO                    | NO                  |
| LAUF3629A   | 60Db-2        | 05+CR                                 | 250+                   | NO         | NO                                             | NO                                  | NO              | NO                    | NO                  |
| SPUF3629B   | 60Db-3        | 05+CR                                 | 100-250                | NO         | NO                                             | NO                                  | NO              | NO                    | NO                  |
| SPUF3629B   | 60Db-4        | 05+CR                                 | 100-250                | NO         | NO                                             | NO                                  | NO              | NO                    | NO                  |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |
|             |               |                                       |                        |            |                                                |                                     |                 |                       |                     |

**Boiler/Steam Generator/Steam Generating Unit Attributes**  
**Form OP-UA6 (Page 7)**  
**Federal Operating Permit Program**  
**Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 07/03/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | D-Series Fuel Type | D-Series Fuel Type | D-Series Fuel Type | Subpart D | Additional Applicability Requirement | ACF Option SO <sub>2</sub> | ACF Option PM | ACF Option NO <sub>x</sub> |
|-------------|---------------|--------------------|--------------------|--------------------|-----------|--------------------------------------|----------------------------|---------------|----------------------------|
| LAUF3629A   | 60Db-1        | NG                 |                    |                    |           | NONE                                 | OTHR                       | OTHR          | OTHR                       |
| LAUF3629A   | 60Db-2        | GFF                |                    |                    |           | NONE                                 | OTHR                       | OTHR          | OTHR                       |
| SPUF3629B   | 60Db-3        | NG                 |                    |                    |           | NONE                                 | OTHR                       | OTHR          | OTHR                       |
| SPUF3629B   | 60Db-4        | GFF                |                    |                    |           | NONE                                 | OTHR                       | OTHR          | OTHR                       |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |
|             |               |                    |                    |                    |           |                                      |                            |               |                            |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 3)**

**Federal Operating Permit Program**

**Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter B: Vent Gas Control**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 07/03/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| ANALYZE               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| AXUT420               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| AXUT430               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| AXUT440               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BAPPANAL              | R5121             | NO                   | NO                 | DISTOPER  |                               | 100-                        | 612-              | YES                                                                |
| BAPPD4403             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD4503             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD4755A            | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD486              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BAPPD5141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD8757             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPE4742             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| BAPPE6143             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPE7143             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT5141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT6141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT7141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE01             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE02             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE03             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE04             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BPBANAL               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBDRUM               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBMISC               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBREFRIG             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPUD271               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUD272               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUR201               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUR202               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUT201               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| C1INVT                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| C1OBVT                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| CD0017PC              | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| CD9A                  | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0039VT               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0111VT               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0315PC               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D-2046                | R5121-1           | NO                   | NO                 | REGVAPPL  |                               | 100+                        |                   |                                                                    |
| D-2046                | R5121-2           | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | NO                                                                 |
| D-2055                | R5121-1           | NO                   | NO                 | REGVAPPL  |                               | 100+                        |                   |                                                                    |
| D-2055                | R5121-2           | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | NO                                                                 |
| D-2074                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| D5111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D6111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D7111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D-717                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| DC-1E                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| E4742                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE03               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE04               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE05               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE06               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE07               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |



| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| FHBVE08               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE09               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE11               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FS09-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FS12-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FS23-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FS24-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FS30-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FSD7                  | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| IAUD830               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| IAUVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| IBUF730A/B/C          | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| J541VT                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| LIN8D496              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| LPUD303               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| LPUT620               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| LPUVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| MPUF2074              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| MPUFIL                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUCOL1               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| NRUCOL1A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| NRUF1A                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUF6                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUF9A/B              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUH2/3               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUT12                | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| NWCD0106              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PAUF311               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PAUF321               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PAUT330               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD122AB             | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD122CD             | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD123A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD123C              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD124A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD124B              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD126A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD126B              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD3                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PCUE3                 | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUT110               | 115.121-1         | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUT110               | 115.121-2         | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PCUVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PFUC501               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD2                 | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD301               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD501               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD512               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUF501               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| PFUF510               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PFUF530               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PPB5121               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPB6121               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPBL3-301             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-302             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-303             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-304             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-305             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-306             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-307             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-308             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-309             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-310             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PPBL3-311             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-312             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-313             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-314             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-315             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-316             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-6-54            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-6-55            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-6-56            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-6-57            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL801               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL811               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL831               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL841               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN3-6-4             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN3-6-5             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN405               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN601               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN605               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN801               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN803               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PPBN831               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBN833               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCL3-6-91            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCL401               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCL601               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCY3-6-1             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCY403               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPCY603               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD411                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD480                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD490                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD511                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612+              | YES                                                                |
| PPD5143               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD5501               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPD611                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612+              | YES                                                                |
| PPD6143               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD711                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612+              | YES                                                                |
| PPD7143               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD811                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPD841                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC102               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PPDC-1A               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC-1E               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC-1F               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC-1H               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC2F                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC2FB               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC2H                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-5A              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-5B              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-5D              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-6-4             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-6-42            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-6-46            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC3-6-54            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC402               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC403               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC451               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC461               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPDC4751              | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| PPDC4752              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPDC510               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPDC551                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC562                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC602                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC803                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC804                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC833                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC854A/B                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC861A/B                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPFIL3-6-73                  | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPFIL401A/B                  | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSBDR3-6-92                 | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF531                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF543                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPSF807                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF837                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPVE13                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF3-6-70                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF3-6-75                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF403                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF413                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF414                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF504                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF603                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF604                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF803                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF804                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF813                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF833                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF834                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF843                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |



| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PROPROFIN7            | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| REGVVENT              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| RGTO-VENT             | R5121-CAM         | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| RHBD115               | R5121-01          | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| RHBD306               | R5121-01          | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| SGUANAL               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| SGUD1013              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| SPUVENT               | R5121-04          | NO                   | NO                 | REGVAPPL  |                               |                             | 612-              | YES                                                                |
| T0007OH               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| T0017OH               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| T0071OH               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| TDUF501               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| TDUF507               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| TDUVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| TK0550A               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| TK0550B               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| TK0560                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| TO3645VENT            | R5121-03          | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| UCOD0002              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| VE01LIN8              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| VE02BAPP              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |

| <b>Emission Point<br/>ID No.</b> | <b>SOP/GOP<br/>Index No.</b> | <b>Chapter 115<br/>Division</b> | <b>Combustion<br/>Exhaust</b> | <b>Vent Type</b> | <b>Total<br/>Uncontrolled<br/>VOC Weight</b> | <b>Combined<br/>24-Hour<br/>VOC Weight</b> | <b>VOC<br/>Concentration</b> | <b>VOC<br/>Concentration or<br/>Emission Rate at<br/>Maximum<br/>Operating<br/>Conditions</b> |
|----------------------------------|------------------------------|---------------------------------|-------------------------------|------------------|----------------------------------------------|--------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------|
| VE02LIN8                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       | 612-                         | YES                                                                                           |
| VEFINISH                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       | 612-                         | YES                                                                                           |
| PPBN800ABC                       | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPCL801                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPCL831                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPCY501                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPDC4750                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPDC8750                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPDC8752                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPEX501                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPEX801                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |
| PPEX831                          | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       |                              | YES                                                                                           |

**Solvent Degreasing Machine Attributes**  
**Form OP-UA16 (Page 1) Federal Operating Permit Program**  
**Table 1: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115) Subchapter E: Solvent Using Processes**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 07/03/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Solvent Degreasing Machine Type | Alternate Control Requirement (ACR) | Alternate Control Requirement ID No. | Solvent Sprayed | Solvent Vapor Pressure | Solvent Heated | Parts Larger Than Drainage | Drainage Area | Disposal in Enclosed Containers | Solvent/Air Interface Area | Emission Control Combinations |
|-------------|-------------------|---------------------------------|-------------------------------------|--------------------------------------|-----------------|------------------------|----------------|----------------------------|---------------|---------------------------------|----------------------------|-------------------------------|
| DEGBAPPMEC  | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   | NO             | NO                         | 16-           | YES                             |                            |                               |
| DEGBCCOMP   | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   | NO             | NO                         | 16-           | YES                             |                            |                               |
| DEGBPBMEC   | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   | NO             | NO                         | 16-           | YES                             |                            |                               |
| DEGBTCPMAC  | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   | NO             | NO                         | 16-           | YES                             |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |

### **Section 3: Monitoring Requirements OP-MON**

**Texas Commission on Environmental Quality  
Monitoring Requirements  
Form OP-MON (Page 3)  
Federal Operating Permit Program  
Table 1c: CAM/PM Case-By-Case Additions**

|                                                                         |                     |                            |
|-------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                       |                     |                            |
| Account No.: HG-0229-F                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                |                     |                            |
| Revision No.:                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: BHUF100A                                 |                     |                            |
| Applicable Form: OP-UA6                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                |                     |                            |
| Pollutant: CO                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                          |                     |                            |
| Monitoring Type: PM                                                     |                     |                            |
| Unit Size:                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis |                     |                            |
| <b>IV. Control Device Information</b>                                   |                     |                            |
| Control Device ID No.:                                                  |                     |                            |
| Device Type:                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                              |                     |                            |
| Indicator:                                                              |                     |                            |
| Minimum Frequency:                                                      |                     |                            |
| Averaging Period:                                                       |                     |                            |
| QA/QC Procedures:                                                       |                     |                            |
| Verification Procedures:                                                |                     |                            |
| Representative Date:                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                             |                     |                            |
| Indicator: Fuel Usage                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                |                     |                            |

## **I. Identifying Information**

Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

**Texas Commission on Environmental Quality**  
**Monitoring Requirements**  
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**Federal Operating Permit Program**  
**Table 1c: CAM/PM Case-By-Case Additions**

|                                                                         |                            |                 |
|-------------------------------------------------------------------------|----------------------------|-----------------|
| <b>I. Identifying Information</b>                                       |                            |                 |
| Account No.: HG-0229-F                                                  | RN No.: RN102574803        | CN: CN600123939 |
| Permit No: O2269                                                        | Project No.: 37612         |                 |
| Area Name: Baytown Chemical Plant                                       |                            |                 |
| Company Name: Exxon Mobil Corporation                                   |                            |                 |
| <b>II. Unit/Emission Point/Group/Process Information</b>                |                            |                 |
| Revision No.:                                                           |                            |                 |
| Unit/EPN/Group/Process ID No.: IBUF730A/B/C                             |                            |                 |
| Applicable Form: OP-UA6                                                 |                            |                 |
| <b>III. Applicable Regulatory Requirement</b>                           |                            |                 |
| Name: 30 TAC Chapter 117, Subchapter B                                  |                            |                 |
| SOP/GOP Index No.: R7300                                                |                            |                 |
| Pollutant: CO                                                           |                            |                 |
| Main Standard: § 117.310(c)(1)                                          |                            |                 |
| Monitoring Type: PM                                                     |                            |                 |
| Unit Size:                                                              |                            |                 |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis |                            |                 |
| <b>IV. Control Device Information</b>                                   |                            |                 |
| Control Device ID No.:                                                  |                            |                 |
| Device Type:                                                            |                            |                 |
| <b>V. CAM Case-by-case</b>                                              |                            |                 |
| Indicator:                                                              |                            |                 |
| Minimum Frequency:                                                      |                            |                 |
| Averaging Period:                                                       |                            |                 |
| QA/QC Procedures:                                                       |                            |                 |
| Verification Procedures:                                                |                            |                 |
| Representative Date:                                                    |                            |                 |
| <b>VI. Periodic Monitoring Case-by-case</b>                             |                            |                 |
| Indicator: Fuel Usage                                                   | Minimum Frequency: Monthly |                 |
| Averaging Period: Hourly                                                |                            |                 |

## **I. Identifying Information**

Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.



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|                                                                         |                            |                 |
|-------------------------------------------------------------------------|----------------------------|-----------------|
| <b>I. Identifying Information</b>                                       |                            |                 |
| Account No.: HG-0229-F                                                  | RN No.: RN102574803        | CN: CN600123939 |
| Permit No: O2269                                                        | Project No.: 37612         |                 |
| Area Name: Baytown Chemical Plant                                       |                            |                 |
| Company Name: Exxon Mobil Corporation                                   |                            |                 |
| <b>II. Unit/Emission Point/Group/Process Information</b>                |                            |                 |
| Revision No.:                                                           |                            |                 |
| Unit/EPN/Group/Process ID No.: MPUF2074                                 |                            |                 |
| Applicable Form: OP-UA6                                                 |                            |                 |
| <b>III. Applicable Regulatory Requirement</b>                           |                            |                 |
| Name: 30 TAC Chapter 117, Subchapter B                                  |                            |                 |
| SOP/GOP Index No.: R7300                                                |                            |                 |
| Pollutant: CO                                                           |                            |                 |
| Main Standard: § 117.310(c)(1)                                          |                            |                 |
| Monitoring Type: PM                                                     |                            |                 |
| Unit Size:                                                              |                            |                 |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis |                            |                 |
| <b>IV. Control Device Information</b>                                   |                            |                 |
| Control Device ID No.:                                                  |                            |                 |
| Device Type:                                                            |                            |                 |
| <b>V. CAM Case-by-case</b>                                              |                            |                 |
| Indicator:                                                              |                            |                 |
| Minimum Frequency:                                                      |                            |                 |
| Averaging Period:                                                       |                            |                 |
| QA/QC Procedures:                                                       |                            |                 |
| Verification Procedures:                                                |                            |                 |
| Representative Date:                                                    |                            |                 |
| <b>VI. Periodic Monitoring Case-by-case</b>                             |                            |                 |
| Indicator: Fuel Usage                                                   | Minimum Frequency: Monthly |                 |
| Averaging Period: Hourly                                                |                            |                 |

## **I. Identifying Information**

Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: NRUF1                                                                    |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O <sub>2</sub> , dry basis                    |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: NRUF1A                                                                   |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: NRUF6                                                                    |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.



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**Table 1c: CAM/PM Case-By-Case Additions**

|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: NRUH2                                                                    |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: NRUH3                                                                    |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: PFUF501                                                                  |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: PFUF510                                                                  |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.



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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: PFUF530                                                                  |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: TDUF501                                                                  |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O <sub>2</sub> , dry basis                    |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

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**Table 1c: CAM/PM Case-By-Case Additions**

|                                                                                                         |                     |                            |
|---------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| <b>I. Identifying Information</b>                                                                       |                     |                            |
| Account No.: HG-0229-F                                                                                  | RN No.: RN102574803 | CN: CN600123939            |
| Permit No: O2269                                                                                        |                     | Project No.: 37612         |
| Area Name: Baytown Chemical Plant                                                                       |                     |                            |
| Company Name: Exxon Mobil Corporation                                                                   |                     |                            |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                |                     |                            |
| Revision No.:                                                                                           |                     |                            |
| Unit/EPN/Group/Process ID No.: TDUF507                                                                  |                     |                            |
| Applicable Form: OP-UA6                                                                                 |                     |                            |
| <b>III. Applicable Regulatory Requirement</b>                                                           |                     |                            |
| Name: 30 TAC Chapter 117, Subchapter B                                                                  |                     |                            |
| SOP/GOP Index No.: R7300                                                                                |                     |                            |
| Pollutant: CO                                                                                           |                     |                            |
| Main Standard: § 117.310(c)(1)                                                                          |                     |                            |
| Monitoring Type: PM                                                                                     |                     |                            |
| Unit Size:                                                                                              |                     |                            |
| Deviation Limit: Maximum CO concentration = 400 ppmv @ 3% O2, dry basis                                 |                     |                            |
| <b>IV. Control Device Information</b>                                                                   |                     |                            |
| Control Device ID No.:                                                                                  |                     |                            |
| Device Type:                                                                                            |                     |                            |
| <b>V. CAM Case-by-case</b>                                                                              |                     |                            |
| Indicator:                                                                                              |                     |                            |
| Minimum Frequency:                                                                                      |                     |                            |
| Averaging Period:                                                                                       |                     |                            |
| QA/QC Procedures:                                                                                       |                     |                            |
| Verification Procedures:                                                                                |                     |                            |
| Representative Date:                                                                                    |                     |                            |
| <b>VI. Periodic Monitoring Case-by-case</b>                                                             |                     |                            |
| Indicator: Fuel Usage                                                                                   |                     | Minimum Frequency: Monthly |
| Averaging Period: Hourly                                                                                |                     |                            |
| Periodic Monitoring Text: Measure and record the hourly fuel usage. Once a month, the hourly fuel usage |                     |                            |

## **I. Identifying Information**

and the emission factor from latest stack test will be used to calculate the average hourly CO emissions. The calculated CO emission rate shall be less than the deviation limit determined at the CO concentration limit of 400 ppmv at 3% O<sub>2</sub> and the recorded hourly fuel usage. Any calculated emission rate above the maximum limit shall be considered and reported as a deviation.

## **Section 4: Potentially Applicable Requirements Forms OP-REQ2**

**Form OP-REQ2**  
**Negative Applicable/Superseded Requirement Determinations**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 07/03/2025 | O2269      | RN102574803          |

| Unit AI  | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|----------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| BAPPGEN1 | 26           |                           | OP-UA2                             | 40 CFR Part 63, Subpart<br>ZZZZ        | 40 CFR 63.6590(b)(3)(i)                                | Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002.           |
| BPBWWC   | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.110                                          | Does not handle a wastewater stream subject to 40 CFR 63.110.                                                                               |
| BUTYLSEP | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.347(a)                                       | Not a waste management unit subject to 40 CFR 61.342(c)(1)(ii).                                                                             |
| BUTYLSEP | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.110                                          | Does not handle a wastewater stream subject to 40 CFR 63.110.                                                                               |
| CABGEN   | 26           |                           | OP-UA2                             | 40 CFR Part 63, Subpart<br>ZZZZ        | 40 CFR 63.6590(b)(3)(i)                                | Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002.           |
| EN01RES  | 26           |                           | OP-UA2                             | 40 CFR Part 63, Subpart<br>ZZZZ        | 40 CFR 63.6590(b)(3)(i)                                | Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002.           |
| FHBVE01  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |



| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| FHBVE03 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE04 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE05 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE06 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE07 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE08 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE09 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| FHBVE11 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |

| Unit AI    | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason            |
|------------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| LPUR601    | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |
| LPUR602    | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |
| NRUSEP     | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.347(a)                                       | Not a waste management unit subject to 40 CFR 61.342(c)(1)(ii). |
| NRUSEP     | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.110                                          | Does not handle a wastewater stream subject to 40 CFR 63.110.   |
| NWCSEP101  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.110                                          | Does not handle a wastewater stream subject to 40 CFR 63.110.   |
| PCUD123A   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PCUD123C   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PCUD124A   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PCUD124B   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PCUD126A   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PCUD126B   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).  |
| PPD4122    | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |
| PPD4127    | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |
| PPD4720A/B | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |
| PPD4743    | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                          |

| Unit AI  | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|----------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| PPD8122  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPDR4751 | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPDR8751 | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR4124  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR4125  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR4710  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR4711  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR4712  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR8124  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR8710  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPR8711  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPT4401  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPT4403  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| PPT4740  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 115.121(a)(1)                                   | Equipment does not vent to atmosphere.                                                                                                      |
| RGTO     | 26           |                           | OP-REQ2                            | 30 TAC Chapter 117                     | 30 TAC 117.10(51)                                      | The unit is not one of the unit types specified in 117.10(51).                                                                              |
| RHBD115  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                         |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| RHBD306 | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TDUSEP  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.347(a)                                       | Not a waste management unit subject to 40 CFR 61.342(c)(1)(ii).                                                                              |
| TDUSEP  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.110                                          | Does not handle a wastewater stream subject to 40 CFR 63.110.                                                                                |
| TK0016A | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0017  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0019  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0021  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0024  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0025  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                         |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| TK0030  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(c)(2)                                    | Storage Tank does not store a VOC.                                                                                                           |
| TK0062  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0070  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(c)(2)                                    | Constructed before 06/11/1973.                                                                                                               |
| TK0095  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0097  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0098  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0102  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0103  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                           |
| TK0104  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                           |
| TK0113  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                         |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| TK0208  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0450A | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0628  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0662  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0668  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0668  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0670  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0671  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0671  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                         |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| TK0701  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart U              | 40 CFR 63.482                                          | Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service. |
| TK0709  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0709  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0711  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0711  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0712  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0712  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0713  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |
| TK0713  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON.  |
| TK0714  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                      |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| TK0714  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK0718  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart Ka             | 40 CFR 60.110a(a)                                      | Constructed before 05/18/1978.                                                                                                              |
| TK1004  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                          |
| TK1011  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK1016  | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                     | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                          |
| TK2000  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2048  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2081  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2082  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2083  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2090  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK2091  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK3000  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3000  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |



| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| TK3001  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3001  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3011  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3013  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3020  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart Kb             | 40 CFR 60.110b(a)                                      | Constructed before 07/23/1984.                                                                                                              |
| TK3020  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3020  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3021  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart Kb             | 40 CFR 60.110b(a)                                      | Constructed before 07/23/1984.                                                                                                              |
| TK3021  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3021  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3022  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| TK3022  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3023  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3023  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3024  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G              | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| TK3100  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Capacity of storage tank is less than 40,000 gal.                                                                                           |
| TK3100  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart Ka             | 40 CFR 60.110a(a)                                      | Capacity of storage tank is less than 40,000 gal.                                                                                           |
| TK3107  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK3110  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Capacity of storage tank is less than 40,000 gal.                                                                                           |
| TK3110  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart Ka             | 40 CFR 60.110a(a)                                      | Capacity of storage tank is less than 40,000 gal.                                                                                           |
| TK4013  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK4013  | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF             | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK4015  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK4016  | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K              | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |

| Unit AI  | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name   | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                        |
|----------|--------------|---------------------------|------------------------------------|------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| TK4016   | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF               | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK4017   | 26           |                           | OP-UA3                             | 40 CFR Part 60, Subpart K                | 40 CFR 60.110(a)                                       | Vessel does not store petroleum liquid.                                                                                                     |
| TK4017   | 26           |                           | OP-REQ2                            | 40 CFR Part 61, Subpart FF               | 40 CFR 61.340                                          | Does not store Benzene Waste.                                                                                                               |
| TK5015   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                       | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                          |
| TK5031   | 26           |                           | OP-REQ2                            | 30 TAC Chapter 115                       | 30 TAC 110(a)                                          | Storage Tank does not store a VOC.                                                                                                          |
| VE01GAR  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G                | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| VE02GAR  | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G                | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| VEFINISH | 26           |                           | OP-REQ2                            | 40 CFR Part 63, Subpart G                | 40 CFR 63.101                                          | Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON. |
| F1106SGU | 27           | -                         | OP-REQ2                            | <del>40 CFR Part 63, Subpart DDDDD</del> | 40 CFR 63.6575                                         | <del>Equipment's primary purpose is not to transfer heat to a process material or to a heat transfer material.</del>                        |
| F1206SGU | 27           | -                         | OP-REQ2                            | <del>40 CFR Part 63, Subpart DDDDD</del> | 40 CFR 63.6575                                         | <del>Equipment's primary purpose is not to transfer heat to a process material or to a heat transfer material.</del>                        |
| TK0025   | 27           | -                         | OP-REQ2                            | <del>30 TAC Chapter 115</del>            | 30 TAC 115.112                                         | VOC TVP < 1.5 psia                                                                                                                          |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                  |                           |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                                      |                                                 |
|--------------------------------------------------|---------------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                        | Source Name (2)           | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                                        | Reporting<br>Requirements                       |
|                                                  |                           |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information                      | Special<br>Condition/Application<br>Information |
| Chapter 1 – Butyl Polymers Baytown Emission Caps |                           |                             |                |         |                                                                                             |                                                                      |                                                 |
| BPBANAL                                          | Analyzer Vents            | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                                       |                                                 |
| BPBDRUM                                          | Drum Vents                | VOC                         |                |         |                                                                                             | 16, 17, 18, 86<br>16, 17, 18, 86<br>16, 17, 18, 86<br>16, 17, 18, 86 |                                                 |
|                                                  |                           | PM                          | 0.05           | 0.01    |                                                                                             |                                                                      |                                                 |
|                                                  |                           | PM <sub>10</sub>            | 0.02           | 0.01    |                                                                                             |                                                                      |                                                 |
|                                                  |                           | PM <sub>2.5</sub>           | 0.02           | 0.01    |                                                                                             |                                                                      |                                                 |
| BPBMISC                                          | Miscellaneous             | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                                       |                                                 |
| BPBREFRIG                                        | Refrigerant Losses        | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                                       |                                                 |
| BPBSSM                                           | SSM Emissions             | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                                       |                                                 |
| BPBUNLOAD                                        | Unloading/Loading         | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                                       |                                                 |
|                                                  |                           | Inorganic                   | 0.71           | 0.02    |                                                                                             |                                                                      |                                                 |
| BPBWWC                                           | Wastewater                | VOC                         |                |         |                                                                                             | 86                                                                   |                                                 |
| CT19                                             | Cooling Tower             | VOC                         |                |         | 2, 5                                                                                        | 2,5, 15, 16, 17, 18, 86                                              | 2                                               |
| CASRHB                                           | Cement/Hexane Tank<br>CAS | VOC                         |                |         | 21                                                                                          | 21, 16, 17, 18, 86                                                   | 6                                               |
| FS12                                             | Flare Stack 12            | VOC                         |                |         | 2, 10, 82, 87-116                                                                           | 2, 10, 15, 16, 17, 18, 82,<br>86, 87-116                             | 2, 105                                          |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                          |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|--------------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)          | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                          |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| FUGMECL                         | Diluent Fugitives (5)(6) | VOC                         |                |         | 2, 74                                                                                       | 2, 16, 17, 18, 86                               | 2                                               |
| BPBFINISH                       | Finishing Vents          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
| RGTO                            | Thermal Oxidizer         | VOC                         |                |         | 2, 32                                                                                       | 2, 8, 16, 17, 18, 32, 86                        | 2, 32                                           |
| TK0015                          | Tank 15                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0016A                         | Tank 16A                 | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0016B                         | Tank 16B                 | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0019                          | Tank 19                  | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0021                          | Tank 21                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0024                          | Tank 24                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0025                          | Tank 25                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0095                          | Tank 95                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0096                          | Tank 96                  | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0097                          | Tank 97                  | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0098                          | Tank 98                  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0102                          | Water Filtrate tank      | VOC                         |                |         |                                                                                             |                                                 | 6                                               |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                 |               | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|-----------------|---------------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates  |               | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour        | TPY (4)       | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | Inorganic                   | 0.01            | 0.01          |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0113                          | Tank 113        | VOC                         |                 |               |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
|                                 |                 | Inorganic                   | 0.01            | 0.01          |                                                                                             |                                                 |                                                 |
| TK0117                          | Tank 117        | VOC                         |                 |               | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0450A                         | Tank 450A       | VOC                         |                 |               |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0701                          | Tank 701        | VOC                         |                 |               | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK5031                          | Tank 5031       | VOC                         |                 |               |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK5033                          | Tank 5033       | VOC                         |                 |               | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK5035                          | Tank 5035       | VOC                         |                 |               | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| D-717                           | Surfactant Drum | VOC                         |                 |               |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| <b>Chapter 1 Emission Cap</b>   |                 | <b>VOC</b>                  | <b>2,119.08</b> | <b>351.33</b> |                                                                                             |                                                 |                                                 |
| FS12                            | Flare Stack 12  | NO <sub>x</sub>             | 16.17           | 9.83          | 2,10, 82, 87-116                                                                            | 2, 10, 15, 16, 17, 18, 82, 86, 87-116           | 2, 105                                          |
|                                 |                 | CO                          | 83.58           | 51.82         |                                                                                             |                                                 |                                                 |
|                                 |                 | HCl                         | 1,132.10        | 56.03         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             | 0.03            | 0.04          |                                                                                             |                                                 |                                                 |

## **Section 5: 20211 Draft Summary Table**

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                  |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)  | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                  |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| RGTO                            | Thermal Oxidizer | NO <sub>x</sub>             | 1.98           | 2.69    | 2, 32                                                                                       | 2, 16, 17, 18, 32, 86                           | 2, 32                                           |
|                                 |                  | CO                          | 3.94           | 9.03    |                                                                                             |                                                 |                                                 |
|                                 |                  | SO <sub>2</sub>             | 0.15           | 0.63    |                                                                                             |                                                 |                                                 |
|                                 |                  | PM                          | 0.26           | 0.37    |                                                                                             |                                                 |                                                 |
|                                 |                  | PM <sub>10</sub>            | 0.26           | 0.37    |                                                                                             |                                                 |                                                 |
|                                 |                  | PM <sub>2.5</sub>           | 0.26           | 0.37    |                                                                                             |                                                 |                                                 |
|                                 |                  | HBr                         | 12.43          | 6.54    |                                                                                             |                                                 |                                                 |
| TK0014                          | Tank 14          | Inorganic                   | 0.06           | 0.23    |                                                                                             | 16, 17, 18, 86                                  | 6                                               |
| TK0015                          | Tank 15          | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0019                          | Tank 19          | Inorganic                   | 0.03           | 0.03    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0030                          | Tank 30          | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0095                          | Tank 95          | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0096                          | Tank 96          | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0103                          | Tank 103         | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK0104                          | Tank 104         | Inorganic                   | 0.01           | 0.01    |                                                                                             | 16, 17, 18, 86                                  |                                                 |



Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                   |                       |                             |                |             | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------------------------|-----------------------|-----------------------------|----------------|-------------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                         | Source Name (2)       | Air Contaminant<br>Name (3) | Emission Rates |             | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                   |                       |                             | lbs/hour       | TPY (4)     | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| TK0117                                            | Tank 117              | Inorganic                   | 0.01           | 0.01        |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK5015                                            | Tank 5015             | Inorganic                   | 0.01           | 0.01        |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| TK5031                                            | Tank 5031             | Inorganic                   | 0.01           | 0.01        |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| BROMVENT                                          | Bromine Control       | Bromine                     | 0.01           | 0.01        | 24, 31                                                                                      | 16, 17, 18, 24, 31, 86                          |                                                 |
| <b>Chapter 2 – Isobutylene Unit Emission Caps</b> |                       |                             |                |             |                                                                                             |                                                 |                                                 |
| F730IBU                                           | Furnace F-730 A,B     | VOC                         |                |             | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
| WWCIBU                                            | Wastewater Collection | VOC                         |                |             | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
| TK4010                                            | Tank 4010             | VOC                         |                |             | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                                                             |                                                 |                                                 |
| TK4011                                            | Tank 4011             | VOC                         |                |             | 2, 6                                                                                        | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                                                             |                                                 |                                                 |
| TK4012                                            | Tank 4012             | VOC                         |                |             | 2, 6                                                                                        | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                                                             |                                                 |                                                 |
| TK4004                                            | Tank 4004             | VOC                         |                |             | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| <b>Chapter 2 Emission Caps</b>                    |                       | <b>VOC</b>                  | <b>25.63</b>   | <b>5.37</b> |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                         |                    |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------------------------------|--------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                               | Source Name (2)    | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                         |                    |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                                         |                    | Acetone                     | 1.19           | 0.23    |                                                                                             |                                                 |                                                 |
| F730IBU                                                 | Furnace F-730 A, B | NOx                         | 6.01           | 23.24   | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 6, 12                                        |
|                                                         |                    | CO                          | 4.95           | 19.15   |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM                          | 0.45           | 1.73    |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM10                        | 0.45           | 1.73    |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM2.5                       | 0.45           | 1.73    |                                                                                             |                                                 |                                                 |
|                                                         |                    | SO2                         | 2.00           | 2.44    |                                                                                             |                                                 |                                                 |
| Chapter 3 – Aromatics and Paraffins Areas Emission Caps |                    |                             |                |         |                                                                                             |                                                 |                                                 |
| EN01CT17                                                | EP-1 Engine        | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
|                                                         |                    | NOx                         |                |         |                                                                                             |                                                 |                                                 |
|                                                         |                    | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM10                        |                |         |                                                                                             |                                                 |                                                 |
|                                                         |                    | PM2.5                       |                |         |                                                                                             |                                                 |                                                 |
|                                                         |                    | SO2                         |                |         |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| EN01CT70                        | EP-6 Engine     | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| EN02CT70                        | EP-9 Engine     | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F100ABHU                        | F-100 Heater    | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F1ANRU                          | F-1A Heater     | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F1NRU                           | F-1 Heater      | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F311PAU                         | F-311 Heater    | VOC                         |                |         | 2, 13                                                                                       | 2, 13,16, 17, 18, 80, 86                        | 2, 13                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F321PAU                         | F-321 Heater    | VOC                         |                |         | 2, 13                                                                                       | 2, 13,16, 17, 18, 80, 86                        | 2, 13                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F501PFU                         | F-501PFU Heater | VOC                         |                |         | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F510PFU                         | F-510 Heater    | VOC                         |                |         | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F530PFU                         | F-530 Heater    | VOC                         |                |         | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| F6NRU                           | F-6 Heater      | VOC                         |                |         | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| H2NRU                           | H-2 Heater      | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| H3NRU                           | H-3 Heater      | VOC                         |                |         | 2, 12                                                                                       | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |



Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                      |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|----------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)      | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                      |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                      | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| MAINTLPU                        | Paraffin Maintenance | VOC                         |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | NO <sub>x</sub>             |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | CO                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | PM                          |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | PM <sub>10</sub>            |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | PM <sub>2.5</sub>           |                |         |                                                                                             |                                                 |                                                 |
|                                 |                      | SO <sub>2</sub>             |                |         |                                                                                             |                                                 |                                                 |
| SEP101NWC                       | NWC Water Separator  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| SEPAXU                          | AXU Water Separator  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| SEPNRU                          | NRU Water Separator  | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| T150BHU                         | T-150 Steam Stripper | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 36, 37, 42, 43, 44                           |
| TK0070                          | Tank 70              | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0074                          | Tank 74              | VOC                         |                |         | 2, 6                                                                                        | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
| TK0077                          | Tank 77              | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37,                       | 2, 6, 36, 37, 42, 43, 44                        |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 |                             |                |         |                                                                                             | 42, 43, 44, 86                                  |                                                 |
| TK0110                          | Tank 110        | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK0112                          | Tank 112        | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK0205                          | Tank 205        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0208                          | Tank 208        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0628                          | Tank 628        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0662                          | Tank 662        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0670                          | Tank 670        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0671                          | Tank 671        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0709                          | Tank 709        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0711                          | Tank 711        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0712                          | Tank 712        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0713                          | Tank 713        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0714                          | Tank 714        | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0718                          | Tank 718        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37,                       | 2, 6, 36, 37, 42, 43, 44                        |

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| Permit Numbers: 20211 and PAL16 |                    |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|--------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)    | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                    |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                    |                             |                |         |                                                                                             | 42, 43, 44, 86                                  |                                                 |
| TK1124                          | Tank 1124          | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK3000                          | Tank 3000          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3001                          | Tank 3001          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3011                          | Tank 3011          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3014                          | Tank 3014          | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK3018                          | Tank 3018          | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK3020                          | Tank 3020          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3021                          | Tank 3021          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3022                          | Tank 3022          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3023                          | Tank 3023          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3056                          | Tank 3056          | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK4024                          | Tank 4024          | VOC                         |                |         | 2                                                                                           | 2, 16, 17, 18, 86                               | 2, 6                                            |
| WWCLPU                          | LPU Process Drains | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                    |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|--------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)    | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                    |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| WWCPAU                          | PAU Process Drains | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| WWCPTU                          | PTU Process Drains | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| WWCXPU                          | XPU Process Drains | VOC                         |                |         |                                                                                             | 16, 17, 18, 86                                  |                                                 |
| WWCDHU                          | DHU Process Drains | VOC                         |                |         | 55                                                                                          | 16, 17, 18, 55, 86                              | 55                                              |
| Chapter 3 Emission Caps         |                    | VOC                         | 295.22         | 86.98   |                                                                                             |                                                 |                                                 |
|                                 |                    | NO <sub>x</sub>             | 95.31          | 200.68  |                                                                                             |                                                 |                                                 |
|                                 |                    | CO                          | 66.31          | 224.02  |                                                                                             |                                                 |                                                 |
|                                 |                    | PM                          | 7.83           | 21.74   |                                                                                             |                                                 |                                                 |
|                                 |                    | PM <sub>10</sub>            | 7.83           | 21.74   |                                                                                             |                                                 |                                                 |
|                                 |                    | PM <sub>2.5</sub>           | 7.83           | 21.74   |                                                                                             |                                                 |                                                 |
|                                 |                    | SO <sub>2</sub>             | 23.42          | 28.21   |                                                                                             |                                                 |                                                 |
| WWCDHU                          | DHU Process Drains | VOC                         | 0.27           | 1.20    | 3, 4                                                                                        | 3, 4                                            |                                                 |
| WWCIAU                          | IAU Sewer          | VOC                         | 0.07           | 0.31    | 3, 4, 58                                                                                    | 3, 4, 58                                        | 58                                              |
| VE01IAU                         | IAU Analyzer Vents | VOC                         | 0.29           | 0.02    | 3, 4, 58                                                                                    | 3, 4, 58                                        | 58                                              |
| FS28                            | Flare – Routine    | VOC                         | 1.02           | 0.05    | 127                                                                                         | 127                                             |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | NO <sub>x</sub>             | 12.69          | 2.74    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | CO                          | 93.42          | 4.81    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | SO <sub>2</sub>             | 2.64           | 0.13    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | NH <sub>3</sub>             | 2.35           | 3.12    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 | Flare - MSS     | VOC                         | 1.02           | 0.16    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | NO <sub>x</sub>             | 220.48         | 13.40   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | CO                          | 93.62          | 14.83   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | SO <sub>2</sub>             | 2.64           | 0.42    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | NH <sub>3</sub>             | 348.53         | 16.73   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 |                             |                |         |                                                                                             |                                                 |                                                 |
| FS31                            | Flare - Routine | VOC                         | 2.18           | 0.16    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | NO <sub>x</sub>             | 27.03          | 6.04    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | CO                          | 200.96         | 14.38   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | SO <sub>2</sub>             | 5.68           | 0.40    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 |                 | NH <sub>3</sub>             | 4.70           | 6.24    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                 | Flare - MSS     | VOC                         | 2.18           | 0.37    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16  |                                                                |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|----------------------------------|----------------------------------------------------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)        | Source Name (2)                                                | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                  |                                                                |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                  |                                                                | NO <sub>x</sub>             | 286.38         | 24.54   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                  |                                                                | CO                          | 201.35         | 34.41   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                  |                                                                | SO <sub>2</sub>             | 5.68           | 0.97    | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
|                                  |                                                                | NH <sub>3</sub>             | 413.61         | 28.36   | <u>127</u>                                                                                  | <u>127</u>                                      |                                                 |
| CTBAU (EPN CT91<br>and EPN CT92) | Ammonia Unit Cooling<br>Tower Cap (Cooling<br>Tower 91 and 92) | PM                          | 4.66           | 10.36   | <u>125</u>                                                                                  | <u>125</u>                                      |                                                 |
|                                  |                                                                | PM <sub>10</sub>            | 1.27           | 5.55    | <u>125</u>                                                                                  | <u>125</u>                                      |                                                 |
|                                  |                                                                | PM <sub>2.5</sub>           | 0.01           | 0.03    | <u>125</u>                                                                                  | <u>125</u>                                      |                                                 |
|                                  |                                                                | NH <sub>3</sub>             | 44.59          | 62.14   | <u>126</u>                                                                                  | <u>126</u>                                      |                                                 |
| ANALBAU                          | Ammonia Vent Analyzer<br>Vents                                 | NH <sub>3</sub>             | 0.28           | 1.25    | <u>124</u>                                                                                  | <u>124</u>                                      |                                                 |
| BAUEGEN1                         | Emergency Generator                                            | VOC                         | 1.42           | 0.07    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
|                                  |                                                                | NO <sub>x</sub>             | 21.16          | 1.06    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
|                                  |                                                                | CO                          | 11.57          | 0.58    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
|                                  |                                                                | SO <sub>2</sub>             | 0.02           | < 0.01  | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
|                                  |                                                                | PM                          | 0.66           | 0.03    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
|                                  |                                                                | PM <sub>10</sub>            | 0.66           | 0.03    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |

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| Permit Numbers: 20211 and PAL16                         |                 |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------------------------------|-----------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                               | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                         |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                                         |                 | PM <sub>2.5</sub>           | 0.66           | 0.03    | <u>120</u>                                                                                  | <u>120</u>                                      | <u>119</u>                                      |
| TKDIESLBAU                                              | Diesel Tank     | VOC                         | 0.23           | < 0.01  | <u>121</u>                                                                                  | <u>121</u>                                      |                                                 |
| <b>Aromatics and Paraffins Areas Tanks Emission Cap</b> |                 |                             |                |         |                                                                                             |                                                 |                                                 |
| TK0063                                                  | Tank 63         | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK0064                                                  | Tank 64         | VOC                         |                |         | 2, 36, 37, 42, 43, 44                                                                       | 2, 16, 17, 18, 36, 37, 42, 43, 44, 86           | 2, 6, 36, 37, 42, 43, 44                        |
| TK0065                                                  | Tank 65         | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0068                                                  | Tank 68         | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0352                                                  | Tank 352        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0710                                                  | Tank 710        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0810                                                  | Tank 810        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0816                                                  | Tank 816        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK3053                                                  | Tank 3053       | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK3055                                                  | Tank 3055       | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37, 42, 43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |

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| Permit Numbers: 20211 and PAL16                            |                   |                             |                |              | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                        |                                                 |
|------------------------------------------------------------|-------------------|-----------------------------|----------------|--------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                                  | Source Name (2)   | Air Contaminant<br>Name (3) | Emission Rates |              | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                          | Reporting<br>Requirements                       |
|                                                            |                   |                             | lbs/hour       | TPY (4)      | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information        | Special<br>Condition/Application<br>Information |
| TK3109                                                     | Tank 3109         | VOC                         |                |              | 2, 6, 36, 37, 42, 43, 44                                                                    | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86            | 2, 6, 36, 37, 42, 43, 44                        |
| <b>Aromatics and Paraffins Area Tanks<br/>Emission Cap</b> |                   | <b>VOC</b>                  | <b>239.99</b>  | <b>52.18</b> |                                                                                             |                                                        |                                                 |
| <b>Chapter 4 – Fugitives Areas Emission Caps (5)</b>       |                   |                             |                |              |                                                                                             |                                                        |                                                 |
| FGRHB                                                      | Process Fugitives | VOC                         |                |              | 2, 3, 4, 24, 74                                                                             | 2, 3, 4, 16, 17, 18, 24,<br>74, 86                     | 2                                               |
|                                                            |                   | Br <sub>2</sub>             | 0.04           | 0.19         |                                                                                             |                                                        |                                                 |
| FGIBU                                                      | IBU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
|                                                            |                   | Acetone                     | 0.02           | 0.09         |                                                                                             |                                                        |                                                 |
| FGAXU                                                      | AXU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
| FGBHU                                                      | BHU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
| FGLPU                                                      | LPU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 47, 74                                                      | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 47, 74, 86 | 2, 36, 37, 42, 43, 44                           |
|                                                            |                   | NH <sub>3</sub>             | 0.01           | 0.01         |                                                                                             |                                                        |                                                 |
| FGNRU                                                      | NRU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
| FGPAU                                                      | PAU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 46, 74                                                      | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 46, 74, 86 | 2, 36, 37, 42, 43, 44                           |
| FGPFU                                                      | PFU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |



Major NSR Summary Table

| Permit Numbers: 20211 and PAL16  |                                     |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                                   |                                                 |
|----------------------------------|-------------------------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)        | Source Name (2)                     | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                                     | Reporting<br>Requirements                       |
|                                  |                                     |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information                   | Special<br>Condition/Application<br>Information |
| FGPTU                            | PTU Fugitives                       | VOC                         |                |         | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86                | 2, 36, 37, 42, 43, 44                           |
|                                  |                                     | NH <sub>3</sub>             | 0.01           | 0.01    |                                                                                             |                                                                   |                                                 |
| FGXPU                            | XPU Fugitives                       | VOC                         |                |         | 2, 3, 4, 36, 37, 42, 43,<br>44, 74                                                          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86                | 2, 36, 37, 42, 43, 44                           |
|                                  |                                     | NH <sub>3</sub>             | 0.01           | 0.01    |                                                                                             |                                                                   |                                                 |
| FGBAPP                           | BAPP Fugitives                      | VOC                         |                |         | 2, 3, 4, 64, 65, 74                                                                         | 2, 3, 4, 16, 17, 18, 64,<br>65, 66, 74, 86                        | 2                                               |
| FGBPU                            | BPU Fugitives                       | VOC                         |                |         | 2, 3, 4, 36, 37, 42, 43,<br>44, 68, 69, 74                                                  | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 68, 69 74,<br>86      | 2, 36, 37, 42, 43, 44                           |
| FGDHU                            | DHU Fugitives                       | VOC                         |                |         | 2, 3, 4, 55, 56, 74                                                                         | 2, 3, 4, 16, 17, 18, 55,<br>56, 74, 86                            | 2, 55                                           |
| FGIAU                            | IAU Fugitives                       | VOC                         |                |         | 2, 3, 4, 58, 61, 62, 74                                                                     | 2, 3, 4, 16, 17, 18, 58,<br>61, 62, 74, 86                        | 2, 58                                           |
| FGPCU                            | PCU Fugitives                       | VOC                         |                |         | 2, 3, 4, 68, 69, 74                                                                         | 2, 3, 4, 16, 17, 18, 68, 69<br>74, 86                             | 2                                               |
| FGTDU                            | TDU Fugitives                       | VOC                         |                |         | 2, 3, 4, 36, 37, 42, 43,<br>44, 64, 65, 74                                                  | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 64, 65,<br>66, 74, 86 | 2, 36, 37, 42, 43, 44                           |
| Chapter 4 Fugitives Emission Cap |                                     | VOC                         | 54.22          | 237.50  |                                                                                             |                                                                   |                                                 |
| Plantwide MSS Caps               |                                     |                             |                |         |                                                                                             |                                                                   |                                                 |
|                                  | Chapter 4 Fugitives<br>Emission Cap | VOC                         | 54.22          | 237.50  |                                                                                             |                                                                   |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                                        |                             |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|----------------------------------------|-----------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)                        | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                                        |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| FGBAU                           | Ammonia Unit Fugitives                 | VOC                         | 0.06           | 0.24    | <u>33</u>                                                                                   | <u>3</u>                                        |                                                 |
|                                 |                                        | NH <sub>3</sub>             | 1.09           | 3.22    | <u>122</u>                                                                                  | <u>122</u>                                      |                                                 |
| Plantwide MSS Caps              |                                        |                             |                |         |                                                                                             |                                                 |                                                 |
| CONSUMABLE                      | Consumables                            |                             |                |         |                                                                                             | 16, 86                                          |                                                 |
| MAINTANKTO                      | Tank Maintenance<br>Control Device     |                             |                |         | 72, 73                                                                                      | 16, 72, 73, 86                                  |                                                 |
| ABRASBLAST                      | Abrasive Blasting                      |                             |                |         |                                                                                             | 16, 86                                          |                                                 |
| FRACTMSS                        | Temporary Storage (e.g.<br>Frac Tanks) |                             |                |         | 78                                                                                          | 16, 78, 86                                      |                                                 |
| MAINANALYZ                      | Analyzer Maintenance                   |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINCOMP                        | Compressor<br>Maintenance              |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINEXCH                        | Heat Exchanger<br>Maintenance          |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINFURN                        | Furnace Maintenance                    |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAININSTR                       | Instrument Maintenance                 |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINPIPE                        | Piping Maintenance                     |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINPUMP                        | Pump Maintenance                       |                             |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                               |                                |                |         | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-------------------------------|--------------------------------|----------------|---------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)               | Air Contaminant<br>Name (3)    | Emission Rates |         | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                               |                                | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| MAINVALVE                       | Valve Maintenance             |                                |                |         | 72, 73, 81                                                                                  | 16, 72, 73, 81, 86                              |                                                 |
| MAINVESS                        | Vessel Maintenance            |                                |                |         | 72, 73, 78, 81                                                                              | 16, 71, 72, 73, 78, 81, 86                      |                                                 |
| TANKMSS                         | Tank Maintenance              |                                |                |         | 72, 73, 75, 76, 81                                                                          | 16, 72, 73, 75, 76, 81, 86                      |                                                 |
| TSAMSS                          | Thermal Spray Aluminum<br>MSS |                                |                |         |                                                                                             | 16, 86                                          |                                                 |
| VACTRKMSS                       | Vacuum Truck MSS              |                                |                |         | 77                                                                                          | 16, 77, 86                                      |                                                 |
| Plantwide MSS Emission Cap (7)  |                               | VOC                            | 1,139.78       | 59.22   |                                                                                             |                                                 |                                                 |
|                                 |                               | NO <sub>x</sub>                | 14.06          | 1.70    |                                                                                             |                                                 |                                                 |
|                                 |                               | PM                             | 13.38          | 4.14    |                                                                                             |                                                 |                                                 |
|                                 |                               | PM <sub>10</sub>               | 13.38          | 4.14    |                                                                                             |                                                 |                                                 |
|                                 |                               | PM <sub>2.5</sub>              | 13.38          | 4.14    |                                                                                             |                                                 |                                                 |
|                                 |                               | CO                             | 19.37          | 0.69    |                                                                                             |                                                 |                                                 |
|                                 |                               | SO <sub>2</sub>                | 26.21          | 2.58    |                                                                                             |                                                 |                                                 |
|                                 |                               | H <sub>2</sub> SO <sub>4</sub> | 0.04           | 0.01    |                                                                                             |                                                 |                                                 |
|                                 |                               | H <sub>2</sub> S               | 11.57          | 0.69    |                                                                                             |                                                 |                                                 |
|                                 |                               | NH <sub>3</sub>                | 8.84           | 0.69    |                                                                                             |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                                                                             |                          |                             |                |                                    | Issuance Date: <del>September 16, 2019</del> <u>April 22, 2025 (20211), April 25, 2025 (PAL16)</u> |                                                 |                                                 |
|-------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|----------------|------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                                                                                   | Source Name (2)          | Air Contaminant<br>Name (3) | Emission Rates |                                    | Monitoring and Testing<br>Requirements                                                             | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                                                                             |                          |                             | lbs/hour       | TPY (4)                            | Special<br>Condition/Application<br>Information                                                    | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| <u>Plantwide Applicability Limit (PAL) Caps (includes all facilities at the Baytown Chemical Plant) (8)</u> |                          |                             |                |                                    |                                                                                                    |                                                 |                                                 |
|                                                                                                             | <u>Engines</u>           |                             |                |                                    | <u>6, 7</u>                                                                                        | <u>28, 30</u>                                   | <u>31</u>                                       |
|                                                                                                             | <u>Heaters</u>           |                             |                |                                    | <u>6, 8</u>                                                                                        | <u>28, 29, 30</u>                               | <u>31</u>                                       |
|                                                                                                             | <u>Flares</u>            |                             |                |                                    | <u>9</u>                                                                                           | <u>28, 30</u>                                   | <u>31</u>                                       |
|                                                                                                             | <u>Thermal Oxidizers</u> |                             |                |                                    | <u>10</u>                                                                                          | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Cooling Towers</u>    |                             |                |                                    | <u>11, 12</u>                                                                                      | <u>28, 30</u>                                   | <u>31</u>                                       |
|                                                                                                             | <u>Fugitives</u>         |                             |                |                                    | <u>13, 14</u>                                                                                      | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Storage Tanks</u>     |                             |                |                                    | <u>15</u>                                                                                          | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Loading</u>           |                             |                |                                    | <u>16</u>                                                                                          | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Vents</u>             |                             |                |                                    | <u>17, 18, 19, 20</u>                                                                              | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Wastewater</u>        |                             |                |                                    | <u>21</u>                                                                                          | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>Other Sources</u>     |                             |                |                                    | <u>22, 23, 24</u>                                                                                  | <u>30</u>                                       | <u>31</u>                                       |
|                                                                                                             | <u>MSS</u>               |                             |                |                                    | <u>25, 26, 27</u>                                                                                  | <u>30</u>                                       | <u>31</u>                                       |
| <u>Plantwide Applicability Limit (PAL) Caps (includes all facilities at the Baytown Chemical Plant)</u>     |                          |                             |                |                                    |                                                                                                    |                                                 |                                                 |
| All EPNs                                                                                                    | All FINs                 | VOC                         |                | <u>1,414,451.3</u><br><u>10.50</u> |                                                                                                    |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                                |                |                             | Issuance Date: <del>September 16, 2019</del> April 22, 2025 (20211), April 25, 2025 (PAL16) |                                                 |                                                 |
|---------------------------------|-----------------|--------------------------------|----------------|-----------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3)    | Emission Rates |                             | Monitoring and Testing<br>Requirements                                                      | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                                | lbs/hour       | TPY (4)                     | Special<br>Condition/Application<br>Information                                             | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| All EPNs                        | All FINs        | NO <sub>x</sub>                |                | <del>526.14445.</del><br>20 |                                                                                             |                                                 |                                                 |
| <u>All EPNs</u>                 | <u>All FINs</u> | <u>PM</u>                      |                | <u>274.70</u>               |                                                                                             |                                                 |                                                 |
| All EPNs                        | All FINs        | PM <sub>10</sub>               |                | <del>274.70244.</del><br>07 |                                                                                             |                                                 |                                                 |
| <u>All EPNs</u>                 | <u>All FINs</u> | <u>PM<sub>2.5</sub></u>        |                | <u>116.20</u>               |                                                                                             |                                                 |                                                 |
| All EPNs                        | All FINs        | CO                             |                | 663.55                      |                                                                                             |                                                 |                                                 |
| All EPNs                        | All FINs        | SO <sub>2</sub>                |                | <del>435.8985.5</del><br>9  |                                                                                             |                                                 |                                                 |
| All EPNs                        | All FINs        | H <sub>2</sub> SO <sub>4</sub> |                | 8.40                        |                                                                                             |                                                 |                                                 |
| All EPNs                        | All FINs        | H <sub>2</sub> S               |                | 11.17                       |                                                                                             |                                                 |                                                 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC
- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub>
  - total oxides of nitrogen
  - SO<sub>2</sub>
  - sulfur dioxide
  - PM
  - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented.
  - PM<sub>10</sub>
  - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented.
  - PM<sub>2.5</sub>
  - particulate matter equal to or less than 2.5 microns in diameter
  - CO
  - carbon monoxide
  - BR<sub>2</sub>
  - bromine
  - HCl
  - hydrogen chloride
  - HBr
  - hydrogen bromide
  - NH<sub>3</sub>
  - ammonia

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The EPN FUGMECL included in the maximum allowable emission rates table for this permit represents the methyl chloride emissions for the entire Baytown Chemical Plant not just those associated with Butyl or Hercules. Methyl chloride is included in other permit applications at the Baytown Chemical Plant for speciation and representational purposes only.
- (7) MSS Cap includes MSS emissions from all existing facilities and the Lubricating Oil Processing Unit authorized by Permit No. 96220.
- ~~(8) The PAL Caps listed shall apply until the issuance of TCEQ NSR Project No. 322596 for Renewal and separation of the PAL16 Special Conditions and Emission limits from NSR Permit No. 20211. Upon the issuance of Project No. 322596, the permit holder shall submit an appropriate application for removal of the PAL16 Special Conditions and Emission limits from NSR Permit No. 20211 within 6 months unless the pending Renewal and Amendment for NSR Permit No. 20211 (TCEQ NSR Project No. 263116) has reached or passed Notice of Application and Preliminary Decision (NAPD) in the review process and includes removal of the PAL from the NSR Permit.~~

**From:** Richard Goertz  
**Sent:** Tuesday, June 10, 2025 9:18 AM  
**To:** Thanapal, Siva Sankar  
**Subject:** FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** RFI 6-6-2025 updated 6-10-2025.xlsx

Mr. Thanapal,

Based on further review of the above referenced project, an additional item has been added to the attached deficiency list (Item 32). Please let me know if you have any questions and I will call you immediately

| Issue # | Unit(s)/Group                                            | Unit Identifying form | Form w/issue | Issue                                                                                                                                                                                                                                                                                                                                                 |
|---------|----------------------------------------------------------|-----------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | DEGBPBMEDC<br>DEGPAPMEC<br>DEGBCCOMP<br>DEGBTCMAC        | UA-16                 | UA-16        | On page 1 of the attributes provided for Index number R5412, pursuant to the form instructions a value for the parameter column "Solvent Heated" (column 8) should be provided. Please update the form to provide a value for this property.                                                                                                          |
| 2       | TK2048<br>TK3196                                         | UA-03                 | UA-03        | On page 54 of the attributes provided for Index number 63FFFF, pursuant to the form instructions a value for the parameter column "Slotted Guidepole" (column 4) should be provided. Please update the form to provide a value for this property.                                                                                                     |
| 3       | LAUF3629A<br>SPUF3629B                                   | UA-06                 | UA-06        | Please let me know if either of the boilers were RECONSTRUCTED after 2005. If so, which one or both.                                                                                                                                                                                                                                                  |
| 4       | LAUF3629A                                                | UA06                  | UA06         | For index numbers 60Db-1 and 60Db-2, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                  |
| 5       | SPUF3629B                                                | UA06                  | UA06         | For index numbers 60Db-3 and 60Db-4, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                  |
| 6       | TK1016<br>TK0103<br>TK0104<br>TK1004<br>TK5015<br>TK5031 | OP-REQ2               | OP-REQ2      | Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 115.112(a)(1) with a negative applicability reason of "Storage Tank does not store a VOC". Since 116.112 relates to control requirements rather than applicability, Instances citing 115.112(a)(1) may be better reflective by citing 115.110(a) |
| 7       | LPUR601/602                                              | UA15                  | OP-REQ2      | The unit is currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a negative applicability reason of "Equipment does not vent to the atmosphere". 101.10(113) cites the definition for a vapor-mounted seal. Please update the citation and reason demonstrating negative applicability          |



|    |                 |         |         |                                                                                                                               |
|----|-----------------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------|
|    | PPBN800ABC      |         |         |                                                                                                                               |
|    | PPCL801         |         |         |                                                                                                                               |
|    | PPCL831         |         |         |                                                                                                                               |
|    | PPCY501         |         |         |                                                                                                                               |
|    | PPD4122         |         |         |                                                                                                                               |
|    | PPD4127         |         |         |                                                                                                                               |
|    | PPD4720A/B      |         |         |                                                                                                                               |
|    | PPD4743         |         |         |                                                                                                                               |
|    | PPD8122         |         |         |                                                                                                                               |
|    | PPDC4750        |         |         |                                                                                                                               |
|    | PPDC8750        |         |         |                                                                                                                               |
|    | PPDC8752        |         |         |                                                                                                                               |
|    | PPDR4751        |         |         |                                                                                                                               |
|    | PPDR8751        |         |         |                                                                                                                               |
|    | PPEX501         |         |         |                                                                                                                               |
|    | PPEX801         |         |         |                                                                                                                               |
|    | PPEX831         |         |         |                                                                                                                               |
|    | PPR4124-PPR4125 |         |         |                                                                                                                               |
|    | PPR4710         |         |         |                                                                                                                               |
|    | PPR4711-PPR4712 |         |         |                                                                                                                               |
|    | PPR8124         |         |         |                                                                                                                               |
|    | PPR8710-PPR8711 |         |         |                                                                                                                               |
|    | PPT4401         |         |         | Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a        |
|    | PPT4403         |         |         | negative applicability reason of "Equipment does not vent to the atmosphere". 101.10(113) cites the definition for a vapor-   |
| 8  | PPT4740         | OP-REQ2 | OP-REQ2 | mounted seal. Please update the citation and reason demonstrating negative applicability                                      |
|    | TK2000          |         |         |                                                                                                                               |
|    | TK2048          |         |         | Units are currently representing negative applicability to Part 61 Subpart FF by referencing citations 61.341 and             |
|    | TK2081-TK2083   |         |         | 61.342(c)(1)(iii) with a negative applicability reason of "Does not store Benzene Waste". Applicability citation 61.340(b)    |
|    | TK2090-TK2091   |         |         | references benzene-containing hazardous waste and is used as the basis for negative determination in other instances. The     |
|    | TK40013         |         |         | more appropriate citation would be 61.340 or 61.340(b) for the reason specified. Please consider updating the citation        |
| 9  | TK4016-TK4017   | UA03    | OP-REQ2 | reference.                                                                                                                    |
|    |                 |         |         |                                                                                                                               |
|    |                 |         |         | The unit is currently representing negative applicability to Chapter 115, Storage tanks by referencing 115.112(a)(1) with a   |
|    |                 |         |         | negative applicability reason of "VOC TVP < 1.5 psia". 115.112 pertains to control requirements. Pursuant to 115.111(a)(1), a |
|    |                 |         |         | storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch         |
| 10 | TK0025          | OP-REQ2 | OP-REQ2 | absolute (psia) is still subject to the recordkeeping requirements of 115.118. Unless another citation/reason demonstrating   |
|    |                 |         |         | negative applicability to the rule can be provided, UA-03 data for the unit/rule should be provided.                          |
|    |                 |         |         |                                                                                                                               |
|    |                 |         |         | Units are currently representing negative applicability to 40 CFR Part 63, Subpart U by referencing 63.480(g) with a negative |
|    |                 |         |         | applicability reason of "The source does not meet the definition of a MACT U storage vessel in 63.482, since the capacity is  |
|    | TK0095          |         |         | less than 38 cubic meters.". Pursuant to Table 3 and Table 4 of MACT U, a storage vessel with a capacity less than 38 cubic   |
|    | TK0097          |         |         | meters does not constitute a Group 1 storage vessel. However, pursuant to 63.482, a storage vessel that does not fall within  |
|    | TK0098          |         |         | the definition of a Group 1 storage vessel is classified as a Group 2 storage vessel. 63.480(g) does not appear to provide an |
|    | TK0450A         |         |         | exclusion for a Group 2 storage vessel. Unless another citation/reason demonstrating negative applicability to the rule can   |
| 11 | TK0701          | UA03    | OP-REQ2 | be provided, the appropriate UA form conveying data for the unit/rule should be provided.                                     |

|    |                                                                                                                             |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|-----------------------------------------------------------------------------------------------------------------------------|---------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | PCUD123A<br>PCUD123C<br>PCUD124A<br>PCUD124B<br>PCUD126A<br>PCUD126B                                                        | UA15    | OP-REQ2 | Units are currently representing negative applicability to Chapter 117 with a negative applicability reason of "Does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                                           |
|    |                                                                                                                             |         |         | Unit is currently representing negative applicability to Chapter 117 with a negative applicability reason of "Thermal oxidizer does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                            |
| 13 | RGTO                                                                                                                        | OP-REQ2 | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14 | F1106SGU<br>F1206SGU                                                                                                        | OP-REQ2 | OP-REQ2 | Units are currently representing negative applicability to MACT DDDDD with a negative applicability reason of "Equipment's primary purpose is not to transfer heat to a process material or to a heat transfer material.". Might be better to say that the units do not meet the definition of boiler or process heater in 63.7575.                                                                                                                                                                                                                                                                                                                                                                                                  |
|    | FHBVE01<br>FHBVE03-FHBVE09<br>FHBVE11<br>RHBD115<br>RHBD306                                                                 |         |         | Units are currently representing negative applicability to MACT G by referencing 63.100(b) with a negative applicability reason of "Facility does not use as a reactant, product, or co-product any HAPs listed in Table 2 of subpart F" which corresponds to 63.100(b)(2). Pursuant to 63.100(c), provided a source meets 63.100(b)(1) and 63.100(b)(3), a source may not meet 63.100(b)(2) and still be applicable to requirements of the rule. Please update OP-REQ 2 information that specifically reflects negative applicability to the rule.                                                                                                                                                                                  |
| 15 | VEFINISH                                                                                                                    | UA15    | OP-REQ2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16 | TK0208<br>TK0662<br>TK0668<br>TK0670<br>TK0671<br>TK0709<br>TK0711-TK0714<br>TK1011<br>TK3000<br>TK3001<br>TK3011<br>TK3013 | UA03    | OP-REQ2 | Units are currently representing negative applicability to MACT G by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include the specific pollutants of 63.100(b)(1)(ii) |
|    | TK3020-TK3024                                                                                                               |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 17 | VE01GAR<br>VE02GAR                                                                                                          | UA03    |         | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "Unit is not part of a HON Chemical Manufacturing Process Unit". Pursuant to the definition of Process Unit in 63.101 it might be better to say that "Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON" Please update the negative applicability reason as appropriate.                                                                                                                                                                                                                                    |

|    |                                                                                                                          |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|--------------------------------------------------------------------------------------------------------------------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18 | TK0628                                                                                                                   | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT H by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include the specific pollutants of 63.100(b)(1)(ii)         |
| 19 | TK0016A<br>TK0025<br>TK0017                                                                                              | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT U by referencing 63.480 or 63.480(c)(8) with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service" contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does not account for this condition. Better reason would be "Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the negative applicability citation and text as appropriate. |
| 20 | TK0019<br>TK0021<br>TK0024<br>TK0102<br>TK0113                                                                           | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT U by referencing 63.482 with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service" contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does not account for this condition. Better reason would be "Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the negative applicability text as appropriate.                              |
| 21 | BAPPEGEN1<br>CAPGEN<br>EN01RES                                                                                           | UA02 | OP-REQ2 | Units are currently representing negative applicability to MACT ZZZZ by referencing 63.6590(b)(3) or 63.6590(b)(3)(iii) with a negative applicability reason of "Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002". The correct citation that includes this language is 63.6590(b)(3)(i). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                            |
| 22 | TK0030<br>TK0070                                                                                                         | UA03 | OP-REQ2 | Units are currently representing negative applicability to NSPS K by referencing 60.110(a) with a negative applicability reason of "Constructed before 06/11/1973". The correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 23 | TK0662<br>TK0668<br>TK0671<br>TK0709<br>TK0711-TK0714<br>TK3000<br>TK3001<br>TK3020-TK3023<br>TK3100<br>TK3107<br>TK3110 | UA03 | OP-REQ2 | Units are currently representing negative applicability to NSPS K by referencing 60.110(c)(2) with a negative applicability reason of "Does not store petroleum liquids". The correct citation that references storage of petroleum liquids is 60.110(a). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|    |                                           |         |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|-------------------------------------------|---------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24 | TK4013<br>TK4015-TK4017                   | UA03    | OP-REQ2                 | Units are currently representing negative applicability to NSPS K by referencing 60.110(b)(2) with a negative applicability reason of "Constructed after 5/18/1978". 60.110(b)(2) does not exist. The correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.<br>The unit is currently representing negative applicability to NSPS Ka by referencing 60.110a(a) with a negative applicability reason of "Constructed before 07/23/1984". NSPS Ka is potentially applicable to tanks constructed after May 18, 1978 and before July 23, 1984. Thus, based on the reason, the tank is still potentially applicable to the rule. Please update information as necessary. |
| 25 | TK0718                                    | UA03    | OP-REQ2                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 26 | TK3020<br>TK3021                          | UA03    | OP-REQ2                 | The unit is currently representing negative applicability to NSPS Kb by referencing 60.110b(a) with a negative applicability reason of "Constructed before 07/23/1984". The citation that references construction date is 60.110b(a) Please update information as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 27 | BPBWWC                                    | UA19    | OP-REQ2                 | The unit is currently representing negative applicability to MACT G by referencing 63.132 with a negative applicability reason of "No affected wastewater streams". The citation refers to process wastewater provisions and not applicability to the rule. It is unclear how negative applicability to the rule is being claimed by this citation. Please provide an explanation for the current combination or provide a new citation supporting the negative determination.                                                                                                                                                                                                                                   |
| 28 | BUTYLSUP<br>NRUSEP<br>NWCSEP101<br>TDUSEP | UA14    | OP-REQ2                 | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 29 | BUTYLSEP<br>NRUSEP<br>TDUSEP              | UA14    | OP-REQ2                 | Units are currently representing negative applicability to Part 61 Subpart F by referencing 61.341 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 30 | Various                                   | Various | OP-SUM                  | The attached spreadsheet notes unit occurrences which do not have PAL16 as a permit related to the unit. Please verify which units should have PAL16 as a represented permit. If it is easier, you may just respond that all need it or identify the ones that don't.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 31 | N/A                                       | N/A     | Major NSR Summary Table | Attached is the Major NSR Summary Table for NSR permit 20211/PAL16 incorporating the changes to the MAERT in the amendment issued April 22, 2025. Please update the Table to reflect any changes with respect to terms and conditions. The new units added in the project are currently redline in the table. I see you have been sent the draft permit for the pending revision for the permit. You may reflect any additional changes being authorized in this project as well.                                                                                                                                                                                                                                |

|    |              |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|----|--------------|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32 | BHUF100A     | UA05 | OP-MON  | <p>For index number R7300, Pollutant = CO: Based on the information provided and the requirements identified, Periodic monitoring is required. Canned options previously approved include PM-C-001 and PM-C-002. Please provide monitoring for these requirements identifying one of the canned options or a proposed case-by-case monitoring plan.</p>                           |
|    | IBUF730A/B/C |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | LPUF101A     |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | LPUF102SH    |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | LPUF203      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | MPUF2074     |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUF1        |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUF1A       |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUF6        |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUH2        |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUH3        |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | PFUF501      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | PFUF510      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | PFUF530      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | PTUF301      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TDUF501      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TDUF507      |      |         |                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3192       | UA03 | OP-2    | <p>Updated OP-2 indicates that unit is authoirzed by NSR permits 96220, 149177, and PAL16. It is currently represented that the unit is authorized by NSR permits 149177, PAL16, and PBR 106.261 (version 11/01/2003, registration number 175762). If we are updating the NSR authorizations for this unit to remove the PBR, this will likely affect the OP-PBRSUP document.</p> |
|    | TK3196       | UA03 | OP-2    | <p>Updated OP-2 indicates that unit is authoirzed by NSR permits 96220, 149177, and PAL16. It is currently represented that the unit is authorized by NSR permits 149177, PAL16, and PBR 106.261 (version 11/01/2003, registration number 164637). If we are updating the NSR authorizations for this unit to remove the PBR, this will likely affect the OP-PBRSUP document.</p> |
|    | TK0628       | UA03 | OP-REQ2 | <p>Deficiency number 18 above references negative applicability for MACT H. The updates to the OP-REQ2 show negative applicability to MACT G. Should the MACT H occurrence be removed and replaced with the MACT G occurrence?</p>                                                                                                                                                |

**From:** Richard Goertz  
**Sent:** Friday, June 6, 2025 8:24 AM  
**To:** Thanapal, Siva Sankar  
**Subject:** FOP O2269/Project 37612, Exxon Mobil Corporation/Baytown Chemical Plant  
**Attachments:** RFI 6-6-2025.xlsx; 20211 Draft Summary Table.docx; OP-SUM for Electronic Loading (28).xlsx

Mr. Thanapal

As you are aware, the revision has been issued today. I wanted to let you know that I have been assigned to the Federal Operating Permit (FOP) renewal application of Permit No. O2269 for Exxon Mobil Corporation, Baytown Chemical Plant. This application has been assigned Project No. 37612. Please address all correspondence pertaining to this permit application, including any updates, to me at the address below, and use both the Permit and Project reference numbers above to facilitate tracking.

In addition, I wanted to let you know that EPA has, on occasion, objected to Title V permits based on the following:

- a. NSR permit and PBR monitoring sufficiency –please refer to our periodic monitoring guidance for reference of monitoring that EPA has, so far, considered sufficient.
- b. Reference to confidential business information (CBI) in NSR permits and PBR submittals.
- c. High level terms in the SOP Applicable Requirement Summary Table. The high level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.
- d. Accuracy of PBR information provided on the supplemental table and in the permit – please refer to Forms OP-PBRSUP and OP-REQ1 Instructions.

If you have any questions or concerns on any of these items or think you need to do any additional updates, let me know and we can discuss further.

I have conducted a technical review of this application, and I have attached a list of deficient items (RFI 6-6-2025) for your review. Many of these items relate to negative applicability determinations on the OP-REQ2. The same issue may affect multiple units. If easier, you may provide the updates in the deficiency notice rather than creating a separate OP-REQ2 occurrence for each. As an alternative, you may note multiple units in a single line on the OP-REQ2 if they all have the same update.

**Please submit to me the requested updates and any comments you have regarding the WDP by July 6, 2025.**

Please review the "SOP Technical Review Fact Sheet" located at [http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title\\_V/sop\\_wdp\\_factsheet.pdf](http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf). This guidance contains important information regarding the review process, application updates, WDP review and comment procedures.

Note that a Certification by Responsible Official (Form OP-CRO1) for any uncertified submittals, including application updates supporting the WDP comments is required to be submitted with the WDP response. After final review of the WDP, additional changes, supported by application updates, may require certification. I will advise you of these changes at a later date. Prior to

transmittal of the Public Notice/Announcement Authorization Package, a duly signed OP-CRO1 form may be required which includes the specific dates or time-period of all submitted application documentation that were not previously certified. I will advise you of this requirement prior to sending the Public Notice/Announcement Authorization.

Application updates may now be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1.

Please notify me when these updates have been submitted.

**As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at [R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov) and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at [Where to Submit FOP Applications and Permit-Related Documents](#).**

Please let me know if you have any questions and I will contact you immediately.

| Issue # | Unit(s)/Group                                            | Unit Identifying form | Form w/issue | Issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|----------------------------------------------------------|-----------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | DEGBPBMEDC<br>DEGPAPPMEC<br>DEGBCCOMP<br>DEGBTCMAC       | UA-16                 | UA-16        | On page 1 of the attributes provided for Index number R5412, pursuant to the form instructions a value for the parameter column "Solvent Heated" (column 8) should be provided. Please update the form to provide a value for this property.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2       | TK2048<br>TK3196                                         | UA-03                 | UA-03        | On page 54 of the attributes provided for Index number 63FFFF, pursuant to the form instructions a value for the parameter column "Slotted Guidepole" (column 4) should be provided. Please update the form to provide a value for this property.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3       | LAUF3629A<br>SPUF3629B                                   | UA-06                 | UA-06        | Please let me know if either of the boilers were RECONSTRUCTED after 2005. If so, which one or both.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4       | LAUF3629A                                                | UA06                  | UA06         | For index numbers 60Db-1 and 60Db-2, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5       | SPUF3629B                                                | UA06                  | UA06         | For index numbers 60Db-3 and 60Db-4, please update the forms to provide a response to the property "Temporary Boiler" (page 6, column 9) and "Additional Applicability Requirement" (page 7, column 6) respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6       | TK1016<br>TK0103<br>TK0104<br>TK1004<br>TK5015<br>TK5031 | OP-REQ2               | OP-REQ2      | Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 115.112(a)(1) with a negative applicability reason of "Storage Tank does not store a VOC". Since 116.112 relates to control requirements rather than applicability, Instances citing 115.112(a)(1) may be better reflective by citing 115.110(a)<br>The unit is currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a negative applicability reason of "Equipment does not vent to the atmosphere". 101.10(113) cites the definition for a vapor-mounted seal. Please update the citation and reason demonstrating negative applicability |
| 7       | LPUR601/602                                              | UA15                  | OP-REQ2      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



|    |                 |         |         |                                                                                                                                                                                                                |
|----|-----------------|---------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | PPBN800ABC      |         |         |                                                                                                                                                                                                                |
|    | PPCL801         |         |         |                                                                                                                                                                                                                |
|    | PPCL831         |         |         |                                                                                                                                                                                                                |
|    | PPCY501         |         |         |                                                                                                                                                                                                                |
|    | PPD4122         |         |         |                                                                                                                                                                                                                |
|    | PPD4127         |         |         |                                                                                                                                                                                                                |
|    | PPD4720A/B      |         |         |                                                                                                                                                                                                                |
|    | PPD4743         |         |         |                                                                                                                                                                                                                |
|    | PPD8122         |         |         |                                                                                                                                                                                                                |
|    | PPDC4750        |         |         |                                                                                                                                                                                                                |
|    | PPDC8750        |         |         |                                                                                                                                                                                                                |
|    | PPDC8752        |         |         |                                                                                                                                                                                                                |
|    | PPDR4751        |         |         |                                                                                                                                                                                                                |
|    | PPDR8751        |         |         |                                                                                                                                                                                                                |
|    | PPEX501         |         |         |                                                                                                                                                                                                                |
|    | PPEX801         |         |         |                                                                                                                                                                                                                |
|    | PPEX831         |         |         |                                                                                                                                                                                                                |
|    | PPR4124-PPR4125 |         |         |                                                                                                                                                                                                                |
|    | PPR4710         |         |         |                                                                                                                                                                                                                |
|    | PPR4711-PPR4712 |         |         |                                                                                                                                                                                                                |
|    | PPR8124         |         |         |                                                                                                                                                                                                                |
|    | PPR8710-PPR8711 |         |         |                                                                                                                                                                                                                |
|    | PPT4401         |         |         | Units are currently representing negative applicability to Chapter 115, Storage Tanks by referencing 101.1(113) with a negative applicability reason of "Equipment does not vent to the atmosphere".           |
|    | PPT4403         |         |         | 101.10(113) cites the definition for a vapor-mounted seal. Please update the citation and reason                                                                                                               |
| 8  | PPT4740         | OP-REQ2 | OP-REQ2 | demonstrating negative applicability                                                                                                                                                                           |
|    | TK2000          |         |         |                                                                                                                                                                                                                |
|    | TK2048          |         |         |                                                                                                                                                                                                                |
|    | TK2081-TK2083   |         |         | Units are currently representing negative applicability to Part 61 Subpart FF by referencing citations 61.341 and 61.342(c)(1)(iii) with a negative applicability reason of "Does not store Benzene Waste".    |
|    | TK2090-TK2091   |         |         | Applicability citation 61.340(b) references benzene-containing hazardous waste and is used as the                                                                                                              |
|    | TK40013         |         |         | basis for negative determination in other instances. The more appropriate citation would be 61.340 or                                                                                                          |
| 9  | TK4016-TK4017   | UA03    | OP-REQ2 | 61.340(b) for the reason specified. Please consider updating the citation reference.                                                                                                                           |
|    |                 |         |         |                                                                                                                                                                                                                |
|    |                 |         |         | The unit is currently representing negative applicability to Chapter 115, Storage tanks by referencing 115.112(a)(1) with a negative applicability reason of "VOC TVP < 1.5 psia". 115.112 pertains to control |
|    |                 |         |         | requirements. Pursuant to 115.111(a)(1), a storage tank storing volatile organic compounds (VOC) with                                                                                                          |
|    |                 |         |         | a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is still subject to the                                                                                                             |
| 10 | TK0025          | OP-REQ2 | OP-REQ2 | recordkeeping requirements of 115.118. Unless another citation/reason demonstrating negative                                                                                                                   |
|    |                 |         |         | applicability to the rule can be provided, UA-03 data for the unit/rule should be provided.                                                                                                                    |

|    |                                                                                                                                                                                                        |         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 | TK0095<br>TK0097<br>TK0098<br>TK0450A<br>TK0701<br>PCUD123A<br>PCUD123C<br>PCUD124A<br>PCUD124B<br>PCUD126A<br>PCUD126B                                                                                | UA03    | OP-REQ2 | Units are currently representing negative applicability to 40 CFR Part 63, Subpart U by referencing 63.480(g) with a negative applicability reason of "The source does not meet the definition of a MACT U storage vessel in 63.482, since the capacity is less than 38 cubic meters.". Pursuant to Table 3 and Table 4 of MACT U, a storage vessel with a capacity less than 38 cubic meters does not constitute a Group 1 storage vessel. However, pursuant to 63.482, a storage vessel that does not fall within the definition of a Group 1 storage vessel is classified as a Group 2 storage vessel. 63.480(g) does not appear to provide an exclusion for a Group 2 storage vessel. Unless another citation/reason demonstrating negative applicability to the rule can be provided, the appropriate UA form conveying data for the unit/rule should be provided. |
| 12 |                                                                                                                                                                                                        | UA15    | OP-REQ2 | Units are currently representing negative applicability to Chapter 117 with a negative applicability reason of "Does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 13 | RGTO                                                                                                                                                                                                   | OP-REQ2 | OP-REQ2 | Unit is currently representing negative applicability to Chapter 117 with a negative applicability reason of "Thermal oxidizer does not meet the 30 TAC Chapter 117 definition of a combustion unit". The term "combustion unit" is not defined in 117.10. Would probably be better to reference 117.10(51) with a reason "The unit is not one of the unit types specified in 117.10(51).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 14 | F1106SGU<br>F1206SGU                                                                                                                                                                                   | OP-REQ2 | OP-REQ2 | Units are currently representing negative applicability to MACT DDDDD with a negative applicability reason of "Equipment's primary purpose is not to transfer heat to a process material or to a heat transfer material.". Might be better to say that the units do not meet the definition of boiler or process heater in 63.7575.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 15 | FHBVE01<br>FHBVE03-FHBVE09<br>FHBVE11<br>RHBD115<br>RHBD306<br>VEFINISH<br>TK0208<br>TK0662<br>TK0668<br>TK0670<br>TK0671<br>TK0709<br>TK0711-TK0714<br>TK1011<br>TK3000<br>TK3001<br>TK3011<br>TK3013 | UA15    | OP-REQ2 | Units are currently representing negative applicability to MACT G by referencing 63.100(b) with a negative applicability reason of "Facility does not use as a reactant, product, or co-product any HAPs listed in Table 2 of subpart F" which corresponds to 63.100(b)(2). Pursuant to 63.100(c), provided a source meets 63.100(b)(1) and 63.100(b)(3), a source may not meet 63.100(b)(2) and still be applicable to requirements of the rule. Please update OP-REQ 2 information that specifically reflects negative applicability to the rule.                                                                                                                                                                                                                                                                                                                     |
| 16 | TK3020-TK3024                                                                                                                                                                                          | UA03    | OP-REQ2 | Units are currently representing negative applicability to MACT G by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include the specific pollutants of 63.100(b)(1)(ii)                                                                                                                                    |

|    |                                                |      |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|------------------------------------------------|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17 | VE01GAR<br>VE02GAR                             | UA03 |         | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "Unit is not part of a HON Chemical Manufacturing Process Unit". Pursuant to the definition of Process Unit in 63.101 it might be better to say that "Unit is not part of a HON Chemical Manufacturing Process Unit and is not subject to another 40 CFR Part 63 Subpart that references the HON" Please update the negative applicability reason as appropriate.                                                                                                                                                                                                                                            |
| 18 | TK0628                                         | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT H by referencing 63.100 with a negative applicability reason of "Unit does not manufacture any of the listed chemicals per tables in 63.100". The reason fails to account for specific pollutants identified in 63.100(b)(1)(ii). Better reason would be "Unit does not manufacture any of the listed chemicals in Table 1 per 63.100(b)(1)(i) or as specified in 63.100(b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 pursuant to 63.100(b)(2). Please update the reason to the new language or to include the specific pollutants of 63.100(b)(1)(ii)         |
| 19 | TK0016A<br>TK0025<br>TK0017                    | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT U by referencing 63.480 or 63.480(c)(8) with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service" contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does not account for this condition. Better reason would be "Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the negative applicability citation and text as appropriate. |
| 20 | TK0019<br>TK0021<br>TK0024<br>TK0102<br>TK0113 | UA03 | OP-REQ2 | Units are currently representing negative applicability to MACT U by referencing 63.482 with a negative applicability reason of "Source is located at an EPPU but either does not contain organic HAPs or contains organic HAPs as impurities only". Pursuant to paragraph ii of the definition of "In Chloroprene Service" contained in 63.482, the impurities exclusion does not apply to vessels in chloroprene service. The reason does not account for this condition. Better reason would be "Source is located at an EPPU but does not contain organic HAPs, contains organic HAPs as impurities only, and is not in chloroprene service". Please update the negative applicability text as appropriate.                              |
| 21 | BAPPEGEN1<br>CAPGEN<br>EN01RES                 | UA02 | OP-REQ2 | Units are currently representing negative applicability to MACT ZZZZ by referencing 63.6590(b)(3) or 63.6590(b)(3)(iii) with a negative applicability reason of "Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002". The correct citation that includes this language is 63.6590(b)(3)(i). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                            |
| 22 | TK0030<br>TK0070                               | UA03 | OP-REQ2 | Units are currently representing negative applicability to NSPS K by referencing 60.110(a) with a negative applicability reason of "Constructed before 06/11/1973". The correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|    |                     |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|---------------------|---------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | TK0662              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK0668              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK0671              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK0709              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK0711-TK0714       |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3000              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3001              |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3020-TK3023       |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3100              |         |                            | Units are currently representing negative applicability to NSPS K by referencing 60.110(c)(2) with a negative applicability reason of "Does not store petroleum liquids". The correct citation that                                                                                                                                                                                                                                                                               |
|    | TK3107              |         |                            | references storage of petroleum liquids is 60.110(a). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                     |
| 23 | TK3110              | UA03    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK4013              |         |                            | Units are currently representing negative applicability to NSPS K by referencing 60.110(b)(2) with a negative applicability reason of "Constructed after 5/18/1978". 60.110(b)(2) does not exist. The                                                                                                                                                                                                                                                                             |
| 24 | TK4015-TK4017       | UA03    | OP-REQ2                    | correct citation that references the date is 60.110(c)(2). Please update the citation accordingly.                                                                                                                                                                                                                                                                                                                                                                                |
|    |                     |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    |                     |         |                            | The unit is currently representing negative applicability to NSPS Ka by referencing 60.110a(a) with a negative applicability reason of "Constructed before 07/23/1984". NSPS Ka is potentially applicable to tanks constructed after May 18, 1978 and before July 23, 1984. Thus, based on the reason, the tank is still potentially applicable to the rule. Please update information as necessary.                                                                              |
| 25 | TK0718              | UA03    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | TK3020              |         |                            | The unit is currently representing negative applicability to NSPS Kb by referencing 60.110b(a) with a negative applicability reason of "Constructed before 07/23/1984". The citation that references construction date is 60.110b(a) Please update information as necessary.                                                                                                                                                                                                      |
| 26 | TK3021              | UA03    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    |                     |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    |                     |         |                            | The unit is currently representing negative applicability to MACT G by referencing 63.132 with a negative applicability reason of "No affected wastewater streams". The citation refers to process wastewater provisions and not applicability to the rule. It is unclear how negative applicability to the rule is being claimed by this citation. Please provide an explanation for the current combination or provide a new citation supporting the negative determination.    |
| 27 | BPBWWC<br>BUTYLSUP  | UA19    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | NRUSEP              |         |                            | Units are currently representing negative applicability to MACT G by referencing 63.101 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                                          |
| 28 | NWCSEP101<br>TDUSEP | UA14    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    | BUTYLSEP            |         |                            | Units are currently representing negative applicability to Part 61 Subpart F by referencing 61.341 with a negative applicability reason of "No affected VOC wastewater streams". Please provide the definition in the section in which this determination is based.                                                                                                                                                                                                               |
| 29 | NRUSEP<br>TDUSEP    | UA14    | OP-REQ2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    |                     |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 30 | Various             | Various | OP-SUM                     | The attached spreadsheet notes unit occurrences which do not have PAL16 as a permit related to the unit. Please verify which units should have PAL16 as a represented permit. If it is easier, you may just respond that all need it or identify the ones that don't.                                                                                                                                                                                                             |
|    |                     |         |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|    |                     |         |                            | Attached is the Major NSR Summary Table for NSR permit 20211/PAL16 incorporating the changes to the MAERT in the amendment issued April 22, 2025. Please update the Table to reflect any changes with respect to terms and conditions. The new units added in the project are currently redline in the table. I see you have been sent the draft permit for the pending revision for the permit. You may reflect any additional changes being authorized in this project as well. |
| 31 | N/A                 | N/A     | Major NSR<br>Summary Table |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                  |                           |                             |                |         | Issuance Date: September 16, 2019               |                                                                      |                                                 |
|--------------------------------------------------|---------------------------|-----------------------------|----------------|---------|-------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                        | Source Name (2)           | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                                        | Reporting<br>Requirements                       |
|                                                  |                           |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information                      | Special<br>Condition/Application<br>Information |
| Chapter 1 – Butyl Polymers Baytown Emission Caps |                           |                             |                |         |                                                 |                                                                      |                                                 |
| BPBANAL                                          | Analyzer Vents            | VOC                         |                |         |                                                 | 16, 17, 18, 86                                                       |                                                 |
| BPBDRUM                                          | Drum Vents                | VOC                         |                |         |                                                 | 16, 17, 18, 86<br>16, 17, 18, 86<br>16, 17, 18, 86<br>16, 17, 18, 86 |                                                 |
|                                                  |                           | PM                          | 0.05           | 0.01    |                                                 |                                                                      |                                                 |
|                                                  |                           | PM <sub>10</sub>            | 0.02           | 0.01    |                                                 |                                                                      |                                                 |
|                                                  |                           | PM <sub>2.5</sub>           | 0.02           | 0.01    |                                                 |                                                                      |                                                 |
| BPBMISC                                          | Miscellaneous             | VOC                         |                |         |                                                 | 16, 17, 18, 86                                                       |                                                 |
| BPBREFRIG                                        | Refrigerant Losses        | VOC                         |                |         |                                                 | 16, 17, 18, 86                                                       |                                                 |
| BPBSSM                                           | SSM Emissions             | VOC                         |                |         |                                                 | 16, 17, 18, 86                                                       |                                                 |
| BPBUNLOAD                                        | Unloading/Loading         | VOC                         |                |         |                                                 | 16, 17, 18, 86                                                       |                                                 |
|                                                  |                           | Inorganic                   | 0.71           | 0.02    |                                                 |                                                                      |                                                 |
| BPBWWC                                           | Wastewater                | VOC                         |                |         |                                                 | 86                                                                   |                                                 |
| CT19                                             | Cooling Tower             | VOC                         |                |         | 2, 5                                            | 2,5, 15, 16, 17, 18, 86                                              | 2                                               |
| CASRHB                                           | Cement/Hexane Tank<br>CAS | VOC                         |                |         | 21                                              | 21, 16, 17, 18, 86                                                   | 6                                               |
| FS12                                             | Flare Stack 12            | VOC                         |                |         | 2, 10, 82, 87-116                               | 2, 10, 15, 16, 17, 18, 82,<br>86, 87-116                             | 2, 105                                          |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                          |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|--------------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)          | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                          |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| FUGMECL                         | Diluent Fugitives (5)(6) | VOC                         |                |         | 2, 74                                           | 2, 16, 17, 18, 86                               | 2                                               |
| BPBFINISH                       | Finishing Vents          | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
| RGTO                            | Thermal Oxidizer         | VOC                         |                |         | 2, 32                                           | 2, 8, 16, 17, 18, 32, 86                        | 2, 32                                           |
| TK0015                          | Tank 15                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0016A                         | Tank 16A                 | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0016B                         | Tank 16B                 | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0019                          | Tank 19                  | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0021                          | Tank 21                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0024                          | Tank 24                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0025                          | Tank 25                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0095                          | Tank 95                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0096                          | Tank 96                  | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0097                          | Tank 97                  | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0098                          | Tank 98                  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0102                          | Water Filtrate tank      | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  | 6                                               |
|                                 |                          | Inorganic                   | 0.01           | 0.01    |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                  |                             |                 |               | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|------------------|-----------------------------|-----------------|---------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)  | Air Contaminant<br>Name (3) | Emission Rates  |               | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                  |                             | lbs/hour        | TPY (4)       | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| TK0113                          | Tank 113         | VOC                         |                 |               |                                                 | 16, 17, 18, 86                                  | 6                                               |
|                                 |                  | Inorganic                   | 0.01            | 0.01          |                                                 |                                                 |                                                 |
| TK0117                          | Tank 117         | VOC                         |                 |               | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0450A                         | Tank 450A        | VOC                         |                 |               |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0701                          | Tank 701         | VOC                         |                 |               | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK5031                          | Tank 5031        | VOC                         |                 |               |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK5033                          | Tank 5033        | VOC                         |                 |               | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK5035                          | Tank 5035        | VOC                         |                 |               | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| D-717                           | Surfactant Drum  | VOC                         |                 |               |                                                 | 16, 17, 18, 86                                  |                                                 |
| <b>Chapter 1 Emission Cap</b>   |                  | <b>VOC</b>                  | <b>2,119.08</b> | <b>351.33</b> |                                                 |                                                 |                                                 |
| FS12                            | Flare Stack 12   | NO <sub>x</sub>             | 16.17           | 9.83          | 2,10, 82, 87-116                                | 2, 10, 15, 16, 17, 18, 82, 86, 87-116           | 2, 105                                          |
|                                 |                  | CO                          | 83.58           | 51.82         |                                                 |                                                 |                                                 |
|                                 |                  | HCl                         | 1,132.10        | 56.03         |                                                 |                                                 |                                                 |
|                                 |                  | SO <sub>2</sub>             | 0.03            | 0.04          |                                                 |                                                 |                                                 |
| RGTO                            | Thermal Oxidizer | NO <sub>x</sub>             | 1.98            | 2.69          | 2, 32                                           | 2, 16, 17, 18, 32, 86                           | 2, 32                                           |
|                                 |                  | CO                          | 3.94            | 9.03          |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | SO <sub>2</sub>             | 0.15           | 0.63    |                                                 |                                                 |                                                 |
|                                 |                 | PM                          | 0.26           | 0.37    |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            | 0.26           | 0.37    |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           | 0.26           | 0.37    |                                                 |                                                 |                                                 |
|                                 |                 | HBr                         | 12.43          | 6.54    |                                                 |                                                 |                                                 |
| TK0014                          | Tank 14         | Inorganic                   | 0.06           | 0.23    |                                                 | 16, 17, 18, 86                                  | 6                                               |
| TK0015                          | Tank 15         | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0019                          | Tank 19         | Inorganic                   | 0.03           | 0.03    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0030                          | Tank 30         | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0095                          | Tank 95         | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0096                          | Tank 96         | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0103                          | Tank 103        | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0104                          | Tank 104        | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK0117                          | Tank 117        | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK5015                          | Tank 5015       | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |
| TK5031                          | Tank 5031       | Inorganic                   | 0.01           | 0.01    |                                                 | 16, 17, 18, 86                                  |                                                 |



Major NSR Summary Table

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|---------------------------------------------------|-----------------------|-----------------------------|----------------|-------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                         | Source Name (2)       | Air Contaminant<br>Name (3) | Emission Rates |             | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                   |                       |                             | lbs/hour       | TPY (4)     | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| BROMVENT                                          | Bromine Control       | Bromine                     | 0.01           | 0.01        | 24, 31                                          | 16, 17, 18, 24, 31, 86                          |                                                 |
| <b>Chapter 2 – Isobutylene Unit Emission Caps</b> |                       |                             |                |             |                                                 |                                                 |                                                 |
| F730IBU                                           | Furnace F-730 A,B     | VOC                         |                |             | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
| WWCIBU                                            | Wastewater Collection | VOC                         |                |             | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
| TK4010                                            | Tank 4010             | VOC                         |                |             | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                 |                                                 |                                                 |
| TK4011                                            | Tank 4011             | VOC                         |                |             | 2, 6                                            | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                 |                                                 |                                                 |
| TK4012                                            | Tank 4012             | VOC                         |                |             | 2, 6                                            | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
|                                                   |                       | Acetone                     |                |             |                                                 |                                                 |                                                 |
| TK4004                                            | Tank 4004             | VOC                         |                |             | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| <b>Chapter 2 Emission Caps</b>                    |                       | <b>VOC</b>                  | <b>25.63</b>   | <b>5.37</b> |                                                 |                                                 |                                                 |
|                                                   |                       | <b>Acetone</b>              | <b>1.19</b>    | <b>0.23</b> |                                                 |                                                 |                                                 |
| F730IBU                                           | Furnace F-730 A, B    | NO <sub>x</sub>             | 6.01           | 23.24       | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 6, 12                                        |
|                                                   |                       | CO                          | 4.95           | 19.15       |                                                 |                                                 |                                                 |
|                                                   |                       | PM                          | 0.45           | 1.73        |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                         |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                               | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                         |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                                         |                 | PM <sub>10</sub>            | 0.45           | 1.73    |                                                 |                                                 |                                                 |
|                                                         |                 | PM <sub>2.5</sub>           | 0.45           | 1.73    |                                                 |                                                 |                                                 |
|                                                         |                 | SO <sub>2</sub>             | 2.00           | 2.44    |                                                 |                                                 |                                                 |
| Chapter 3 – Aromatics and Paraffins Areas Emission Caps |                 |                             |                |         |                                                 |                                                 |                                                 |
| EN01CT17                                                | EP-1 Engine     | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
|                                                         |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| EN01CT70                                                | EP-6 Engine     | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
|                                                         |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                                         |                 | PM                          |                |         |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| EN02CT70                        | EP-9 Engine     | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F100ABHU                        | F-100 Heater    | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F1ANRU                          | F-1A Heater     | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F1NRU                           | F-1 Heater      | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F311PAU                         | F-311 Heater    | VOC                         |                |         | 2, 13                                           | 2, 13, 16, 17, 18, 80, 86                       | 2, 13                                           |

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| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F321PAU                         | F-321 Heater    | VOC                         |                |         | 2, 13                                           | 2, 13,16, 17, 18, 80, 86                        | 2, 13                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F501PFU                         | F-501PFU Heater | VOC                         |                |         | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F510PFU                         | F-510 Heater    | VOC                         |                |         | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F530PFU                         | F-530 Heater    | VOC                         |                |         | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| F6NRU                           | F-6 Heater      | VOC                         |                |         | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| H2NRU                           | H-2 Heater      | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2                                               |
|                                 |                 | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                 | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                 | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                 | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                      |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|----------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)      | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                      |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| H3NRU                           | H-3 Heater           | VOC                         |                |         | 2, 12                                           | 2, 12, 16, 17, 18, 86                           | 2, 12                                           |
|                                 |                      | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                      | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                      | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| MAINTLPU                        | Paraffin Maintenance | VOC                         |                |         |                                                 |                                                 |                                                 |
|                                 |                      | NO <sub>x</sub>             |                |         |                                                 |                                                 |                                                 |
|                                 |                      | CO                          |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM                          |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM <sub>10</sub>            |                |         |                                                 |                                                 |                                                 |
|                                 |                      | PM <sub>2.5</sub>           |                |         |                                                 |                                                 |                                                 |
|                                 |                      | SO <sub>2</sub>             |                |         |                                                 |                                                 |                                                 |
| SEP101NWC                       | NWC Water Separator  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| SEPAXU                          | AXU Water Separator  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |



Major NSR Summary Table

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|---------------------------------|----------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)      | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                      |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| SEPNRU                          | NRU Water Separator  | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| T150BHU                         | T-150 Steam Stripper | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 36, 37, 42, 43, 44                           |
| TK0070                          | Tank 70              | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0074                          | Tank 74              | VOC                         |                |         | 2, 6                                            | 2, 6, 16, 17, 18, 86                            | 2, 6                                            |
| TK0077                          | Tank 77              | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0110                          | Tank 110             | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0112                          | Tank 112             | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0205                          | Tank 205             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0208                          | Tank 208             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0628                          | Tank 628             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0662                          | Tank 662             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0670                          | Tank 670             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0671                          | Tank 671             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0709                          | Tank 709             | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |

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|---------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| TK0711                          | Tank 711        | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0712                          | Tank 712        | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0713                          | Tank 713        | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0714                          | Tank 714        | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK0718                          | Tank 718        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK1124                          | Tank 1124       | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK3000                          | Tank 3000       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3001                          | Tank 3001       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3011                          | Tank 3011       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3014                          | Tank 3014       | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK3018                          | Tank 3018       | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK3020                          | Tank 3020       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3021                          | Tank 3021       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3022                          | Tank 3022       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| TK3023                          | Tank 3023       | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |

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|---------------------------------|--------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)    | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                    |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| TK3056                          | Tank 3056          | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK4024                          | Tank 4024          | VOC                         |                |         | 2                                               | 2, 16, 17, 18, 86                               | 2, 6                                            |
| WWCLPU                          | LPU Process Drains | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| WWCPAU                          | PAU Process Drains | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| WWCPTU                          | PTU Process Drains | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| WWCXPU                          | XPU Process Drains | VOC                         |                |         |                                                 | 16, 17, 18, 86                                  |                                                 |
| WWCDHU                          | DHU Process Drains | VOC                         |                |         | 55                                              | 16, 17, 18, 55, 86                              | 55                                              |
| Chapter 3 Emission Caps         |                    | VOC                         | 295.22         | 86.98   |                                                 |                                                 |                                                 |
|                                 |                    | NO <sub>x</sub>             | 95.31          | 200.68  |                                                 |                                                 |                                                 |
|                                 |                    | CO                          | 66.31          | 224.02  |                                                 |                                                 |                                                 |
|                                 |                    | PM                          | 7.83           | 21.74   |                                                 |                                                 |                                                 |
|                                 |                    | PM <sub>10</sub>            | 7.83           | 21.74   |                                                 |                                                 |                                                 |
|                                 |                    | PM <sub>2.5</sub>           | 7.83           | 21.74   |                                                 |                                                 |                                                 |
|                                 |                    | SO <sub>2</sub>             | 23.42          | 28.21   |                                                 |                                                 |                                                 |
| WWCDHU                          | DHU Process Drains | VOC                         | 0.27           | 1.20    | 3, 4                                            | 3, 4                                            |                                                 |

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| Emission Point No.<br>(1)       | Source Name (2)    | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                    |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| WWCIAU                          | IAU Sewer          | VOC                         | 0.07           | 0.31    | 3, 4, 58                                        | 3, 4, 58                                        | 58                                              |
| VE01IAU                         | IAU Analyzer Vents | VOC                         | 0.29           | 0.02    | 3, 4, 58                                        | 3, 4, 58                                        | 58                                              |
| FS28                            | Flare – Routine    | VOC                         | 1.02           | 0.05    |                                                 |                                                 |                                                 |
|                                 |                    | NO <sub>x</sub>             | 12.69          | 2.74    |                                                 |                                                 |                                                 |
|                                 |                    | CO                          | 93.42          | 4.81    |                                                 |                                                 |                                                 |
|                                 |                    | SO <sub>2</sub>             | 2.64           | 0.13    |                                                 |                                                 |                                                 |
|                                 |                    | NH <sub>3</sub>             | 2.35           | 3.12    |                                                 |                                                 |                                                 |
|                                 | Flare - MSS        | VOC                         | 1.02           | 0.16    |                                                 |                                                 |                                                 |
|                                 |                    | NO <sub>x</sub>             | 220.48         | 13.40   |                                                 |                                                 |                                                 |
|                                 |                    | CO                          | 93.62          | 14.83   |                                                 |                                                 |                                                 |
|                                 |                    | SO <sub>2</sub>             | 2.64           | 0.42    |                                                 |                                                 |                                                 |
|                                 |                    | NH <sub>3</sub>             | 348.53         | 16.73   |                                                 |                                                 |                                                 |
| FS31                            | Flare - Routine    | VOC                         | 2.18           | 0.16    |                                                 |                                                 |                                                 |
|                                 |                    | NO <sub>x</sub>             | 27.03          | 6.04    |                                                 |                                                 |                                                 |
|                                 |                    | CO                          | 200.96         | 14.38   |                                                 |                                                 |                                                 |

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|----------------------------------|----------------------------------------------------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)        | Source Name (2)                                                | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                  |                                                                |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                  |                                                                | SO <sub>2</sub>             | 5.68           | 0.40    |                                                 |                                                 |                                                 |
|                                  |                                                                | NH <sub>3</sub>             | 4.70           | 6.24    |                                                 |                                                 |                                                 |
|                                  | Flare - MSS                                                    | VOC                         | 2.18           | 0.37    |                                                 |                                                 |                                                 |
|                                  |                                                                | NO <sub>x</sub>             | 286.38         | 24.54   |                                                 |                                                 |                                                 |
|                                  |                                                                | CO                          | 201.35         | 34.41   |                                                 |                                                 |                                                 |
|                                  |                                                                | SO <sub>2</sub>             | 5.68           | 0.97    |                                                 |                                                 |                                                 |
|                                  |                                                                | NH <sub>3</sub>             | 413.61         | 28.36   |                                                 |                                                 |                                                 |
| CTBAU (EPN CT91<br>and EPN CT92) | Ammonia Unit Cooling<br>Tower Cap (Cooling<br>Tower 91 and 92) | PM                          | 4.66           | 10.36   |                                                 |                                                 |                                                 |
|                                  |                                                                | PM <sub>10</sub>            | 1.27           | 5.55    |                                                 |                                                 |                                                 |
|                                  |                                                                | PM <sub>2.5</sub>           | 0.01           | 0.03    |                                                 |                                                 |                                                 |
|                                  |                                                                | NH <sub>3</sub>             | 44.59          | 62.14   |                                                 |                                                 |                                                 |
| ANALBAU                          | Ammonia Vent Analyzer<br>Vents                                 | NH <sub>3</sub>             | 0.28           | 1.25    |                                                 |                                                 |                                                 |
| BAUEGEN1                         | Emergency Generator                                            | VOC                         | 1.42           | 0.07    |                                                 |                                                 |                                                 |
|                                  |                                                                | NO <sub>x</sub>             | 21.16          | 1.06    |                                                 |                                                 |                                                 |
|                                  |                                                                | CO                          | 11.57          | 0.58    |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                  |                 |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|--------------------------------------------------|-----------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                        | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                  |                 |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                                  |                 | SO <sub>2</sub>             | 0.02           | < 0.01  |                                                 |                                                 |                                                 |
|                                                  |                 | PM                          | 0.66           | 0.03    |                                                 |                                                 |                                                 |
|                                                  |                 | PM <sub>10</sub>            | 0.66           | 0.03    |                                                 |                                                 |                                                 |
|                                                  |                 | PM <sub>2.5</sub>           | 0.66           | 0.03    |                                                 |                                                 |                                                 |
| TKDIESLBAU                                       | Diesel Tank     | VOC                         | 0.23           | < 0.01  |                                                 |                                                 |                                                 |
| Aromatics and Paraffins Areas Tanks Emission Cap |                 |                             |                |         |                                                 |                                                 |                                                 |
| TK0063                                           | Tank 63         | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0064                                           | Tank 64         | VOC                         |                |         | 2, 36, 37, 42, 43, 44                           | 2, 16, 17, 18, 36, 37, 42,<br>43, 44, 86        | 2, 6, 36, 37, 42, 43, 44                        |
| TK0065                                           | Tank 65         | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0068                                           | Tank 68         | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0352                                           | Tank 352        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0710                                           | Tank 710        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0810                                           | Tank 810        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |
| TK0816                                           | Tank 816        | VOC                         |                |         | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86     | 2, 6, 36, 37, 42, 43, 44                        |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                            |                   |                             |                |              | Issuance Date: September 16, 2019               |                                                        |                                                 |
|------------------------------------------------------------|-------------------|-----------------------------|----------------|--------------|-------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                                  | Source Name (2)   | Air Contaminant<br>Name (3) | Emission Rates |              | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                          | Reporting<br>Requirements                       |
|                                                            |                   |                             | lbs/hour       | TPY (4)      | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information        | Special<br>Condition/Application<br>Information |
| TK3053                                                     | Tank 3053         | VOC                         |                |              | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86            | 2, 6, 36, 37, 42, 43, 44                        |
| TK3055                                                     | Tank 3055         | VOC                         |                |              | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86            | 2, 6, 36, 37, 42, 43, 44                        |
| TK3109                                                     | Tank 3109         | VOC                         |                |              | 2, 6, 36, 37, 42, 43, 44                        | 2, 6, 16, 17, 18, 36, 37,<br>42, 43, 44, 86            | 2, 6, 36, 37, 42, 43, 44                        |
| <b>Aromatics and Paraffins Area Tanks<br/>Emission Cap</b> |                   | <b>VOC</b>                  | <b>239.99</b>  | <b>52.18</b> |                                                 |                                                        |                                                 |
| <b>Chapter 4 – Fugitives Areas Emission Caps (5)</b>       |                   |                             |                |              |                                                 |                                                        |                                                 |
| FGRHB                                                      | Process Fugitives | VOC                         |                |              | 2, 3, 4, 24, 74                                 | 2, 3, 4, 16, 17, 18, 24,<br>74, 86                     | 2                                               |
|                                                            |                   | Br <sub>2</sub>             | 0.04           | 0.19         |                                                 |                                                        |                                                 |
| FGIBU                                                      | IBU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
|                                                            |                   | Acetone                     | 0.02           | 0.09         |                                                 |                                                        |                                                 |
| FGAXU                                                      | AXU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
| FGBHU                                                      | BHU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |
| FGLPU                                                      | LPU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 47, 74          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 47, 74, 86 | 2, 36, 37, 42, 43, 44                           |
|                                                            |                   | NH <sub>3</sub>             | 0.01           | 0.01         |                                                 |                                                        |                                                 |
| FGNRU                                                      | NRU Fugitives     | VOC                         |                |              | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86     | 2, 36, 37, 42, 43, 44                           |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16         |                 |                             |                |               | Issuance Date: September 16, 2019               |                                                                   |                                                 |
|-----------------------------------------|-----------------|-----------------------------|----------------|---------------|-------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)               | Source Name (2) | Air Contaminant<br>Name (3) | Emission Rates |               | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                                     | Reporting<br>Requirements                       |
|                                         |                 |                             | lbs/hour       | TPY (4)       | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information                   | Special<br>Condition/Application<br>Information |
| FGPAU                                   | PAU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 46, 74          | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 46, 74, 86            | 2, 36, 37, 42, 43, 44                           |
| FGPFU                                   | PFU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86                | 2, 36, 37, 42, 43, 44                           |
| FGPTU                                   | PTU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86                | 2, 36, 37, 42, 43, 44                           |
|                                         |                 | NH <sub>3</sub>             | 0.01           | 0.01          |                                                 |                                                                   |                                                 |
| FGXPU                                   | XPU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 74              | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 74, 86                | 2, 36, 37, 42, 43, 44                           |
|                                         |                 | NH <sub>3</sub>             | 0.01           | 0.01          |                                                 |                                                                   |                                                 |
| FGBAPP                                  | BAPP Fugitives  | VOC                         |                |               | 2, 3, 4, 64, 65, 74                             | 2, 3, 4, 16, 17, 18, 64,<br>65, 66, 74, 86                        | 2                                               |
| FGBPU                                   | BPU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 68, 69, 74      | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 68, 69, 74,<br>86     | 2, 36, 37, 42, 43, 44                           |
| FGDHU                                   | DHU Fugitives   | VOC                         |                |               | 2, 3, 4, 55, 56, 74                             | 2, 3, 4, 16, 17, 18, 55,<br>56, 74, 86                            | 2, 55                                           |
| FGIAU                                   | IAU Fugitives   | VOC                         |                |               | 2, 3, 4, 58, 61, 62, 74                         | 2, 3, 4, 16, 17, 18, 58,<br>61, 62, 74, 86                        | 2, 58                                           |
| FGPCU                                   | PCU Fugitives   | VOC                         |                |               | 2, 3, 4, 68, 69, 74                             | 2, 3, 4, 16, 17, 18, 68, 69<br>74, 86                             | 2                                               |
| FGTDU                                   | TDU Fugitives   | VOC                         |                |               | 2, 3, 4, 36, 37, 42, 43,<br>44, 64, 65, 74      | 2, 3, 4, 16, 17, 18, 36,<br>37, 42, 43, 44, 64, 65,<br>66, 74, 86 | 2, 36, 37, 42, 43, 44                           |
| <b>Chapter 4 Fugitives Emission Cap</b> |                 | <b>VOC</b>                  | <b>54.22</b>   | <b>237.50</b> |                                                 |                                                                   |                                                 |



Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                                        |                             |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|----------------------------------------|-----------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)                        | Air Contaminant<br>Name (3) | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                                        |                             | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| Plantwide MSS Caps              |                                        |                             |                |         |                                                 |                                                 |                                                 |
|                                 | Chapter 4 Fugitives<br>Emission Cap    | VOC                         | 54.22          | 237.50  |                                                 |                                                 |                                                 |
| FGBAU                           | Ammonia Unit Fugitives                 | VOC                         | 0.06           | 0.24    |                                                 |                                                 |                                                 |
|                                 |                                        | NH <sub>3</sub>             | 1.09           | 3.22    |                                                 |                                                 |                                                 |
| Plantwide MSS Caps              |                                        |                             |                |         |                                                 |                                                 |                                                 |
| CONSUMABLE                      | Consumables                            |                             |                |         |                                                 | 16, 86                                          |                                                 |
| MAINTANKTO                      | Tank Maintenance<br>Control Device     |                             |                |         | 72, 73                                          | 16, 72, 73, 86                                  |                                                 |
| ABRASBLAST                      | Abrasive Blasting                      |                             |                |         |                                                 | 16, 86                                          |                                                 |
| FRACTMSS                        | Temporary Storage (e.g.<br>Frac Tanks) |                             |                |         | 78                                              | 16, 78, 86                                      |                                                 |
| MAINANALYZ                      | Analyzer Maintenance                   |                             |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINCOMP                        | Compressor<br>Maintenance              |                             |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINEXCH                        | Heat Exchanger<br>Maintenance          |                             |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINFURN                        | Furnace Maintenance                    |                             |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAININSTR                       | Instrument Maintenance                 |                             |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16 |                               |                                |                |         | Issuance Date: September 16, 2019               |                                                 |                                                 |
|---------------------------------|-------------------------------|--------------------------------|----------------|---------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)       | Source Name (2)               | Air Contaminant<br>Name (3)    | Emission Rates |         | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                 |                               |                                | lbs/hour       | TPY (4) | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
| MAINPIPE                        | Piping Maintenance            |                                |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINPUMP                        | Pump Maintenance              |                                |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINVALVE                       | Valve Maintenance             |                                |                |         | 72, 73, 81                                      | 16, 72, 73, 81, 86                              |                                                 |
| MAINVESS                        | Vessel Maintenance            |                                |                |         | 72, 73, 78, 81                                  | 16, 71, 72, 73, 78, 81, 86                      |                                                 |
| TANKMSS                         | Tank Maintenance              |                                |                |         | 72, 73, 75, 76, 81                              | 16, 72, 73, 75, 76, 81, 86                      |                                                 |
| TSAMSS                          | Thermal Spray Aluminum<br>MSS |                                |                |         |                                                 | 16, 86                                          |                                                 |
| VACTRKMSS                       | Vacuum Truck MSS              |                                |                |         | 77                                              | 16, 77, 86                                      |                                                 |
| Plantwide MSS Emission Cap (7)  |                               | VOC                            | 1,139.78       | 59.22   |                                                 |                                                 |                                                 |
|                                 |                               | NO <sub>x</sub>                | 14.06          | 1.70    |                                                 |                                                 |                                                 |
|                                 |                               | PM                             | 13.38          | 4.14    |                                                 |                                                 |                                                 |
|                                 |                               | PM <sub>10</sub>               | 13.38          | 4.14    |                                                 |                                                 |                                                 |
|                                 |                               | PM <sub>2.5</sub>              | 13.38          | 4.14    |                                                 |                                                 |                                                 |
|                                 |                               | CO                             | 19.37          | 0.69    |                                                 |                                                 |                                                 |
|                                 |                               | SO <sub>2</sub>                | 26.21          | 2.58    |                                                 |                                                 |                                                 |
|                                 |                               | H <sub>2</sub> SO <sub>4</sub> | 0.04           | 0.01    |                                                 |                                                 |                                                 |

Major NSR Summary Table

| Permit Numbers: 20211 and PAL16                                                                      |                 |                                |                |          | Issuance Date: September 16, 2019               |                                                 |                                                 |
|------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|----------------|----------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Emission Point No.<br>(1)                                                                            | Source Name (2) | Air Contaminant<br>Name (3)    | Emission Rates |          | Monitoring and Testing<br>Requirements          | Recordkeeping<br>Requirements                   | Reporting<br>Requirements                       |
|                                                                                                      |                 |                                | lbs/hour       | TPY (4)  | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information | Special<br>Condition/Application<br>Information |
|                                                                                                      |                 | H <sub>2</sub> S               | 11.57          | 0.69     |                                                 |                                                 |                                                 |
|                                                                                                      |                 | NH <sub>3</sub>                | 8.84           | 0.69     |                                                 |                                                 |                                                 |
| Plantwide Applicability Limit (PAL) Caps (includes all facilities at the Baytown Chemical Plant) (8) |                 |                                |                |          |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | VOC                            |                | 1,414.45 |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | NO <sub>x</sub>                |                | 526.14   |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | PM <sub>10</sub>               |                | 274.70   |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | CO                             |                | 663.55   |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | SO <sub>2</sub>                |                | 135.89   |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | H <sub>2</sub> SO <sub>4</sub> |                | 8.40     |                                                 |                                                 |                                                 |
| All EPNs                                                                                             | All FINs        | H <sub>2</sub> S               |                | 11.17    |                                                 |                                                 |                                                 |

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented.

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented.

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

BR<sub>2</sub> - bromine

HCl - hydrogen chloride

HBr                    - hydrogen bromide  
NH<sub>3</sub>                   - ammonia

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The EPN FUGMECL included in the maximum allowable emission rates table for this permit represents the methyl chloride emissions for the entire Baytown Chemical Plant not just those associated with Butyl or Hercules. Methyl chloride is included in other permit applications at the Baytown Chemical Plant for speciation and representational purposes only.
- (7) MSS Cap includes MSS emissions from all existing facilities and the Lubricating Oil Processing Unit authorized by Permit No. 96220.
- (8) The PAL Caps listed shall apply until the issuance of TCEQ NSR Project No. 322596 for Renewal and separation of the PAL16 Special Conditions and Emission limits from NSR Permit No. 20211. Upon the issuance of Project No. 322596, the permit holder shall submit an appropriate application for removal of the PAL16 Special Conditions and Emission limits from NSR Permit No. 20211 within 6 months unless the pending Renewal and Amendment for NSR Permit No. 20211 (TCEQ NSR Project No. 263116) has reached or passed Notice of Application and Preliminary Decision (NAPD) in the review process and includes removal of the PAL from the NSR Permit.

## Steven Piper

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**From:** eNotice TCEQ  
**Sent:** Monday, February 3, 2025 2:50 PM  
**To:** carol.alvarado@senate.texas.gov; Jaime.Villarreal@senate.texas.gov;  
megan.maldonado@senate.texas.gov; Briscoe.cain@house.texas.gov  
**Subject:** TCEQ Notice - Permit Number O2269  
**Attachments:** TCEQ Notice - O2269\_37612.pdf

This email is being sent to electronically transmit an official document issued by the Office of Air of the Texas Commission on Environmental Quality.

This email is being sent to you because either (a) you filed a document with the Office of the Chief Clerk that made you part of the official mailing list for the above referenced matter, or (b) notice to you is legally required. As authorized by Texas Water Code 5.128, this electronic transmittal is replacing the previous practice of hard copy distribution. Amendments to Texas Government Code 552.137 prompted a change to the agency's privacy policy regarding confidentiality of certain email addresses. The revised privacy policy can be viewed at [http://www.tceq.state.tx.us/help/policies/electronic\\_info\\_policy.html](http://www.tceq.state.tx.us/help/policies/electronic_info_policy.html).

Questions regarding this email may be submitted either by replying directly to this email or by calling Mr. Jesse Chacon, P.E. with the Air Permits Division at (512) 239-5759.

The attached document is provided in an Adobe Acrobat .pdf format. If you cannot display the attachment, you may need to visit the Adobe web site (<http://get.adobe.com/reader>) to download the free Adobe Acrobat Reader software.

Brooke Paup, *Chairwoman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 3, 2025

THE HONORABLE CAROL ALVARADO  
TEXAS SENATE  
PO BOX 12068  
AUSTIN TX 78711-2068

Re: Accepted Federal Operating Permit Renewal Application  
Project Number: 37612  
Permit Number: O2269  
Exxon Mobil Corporation  
Baytown Chemical Plant  
Baytown, Harris County  
Regulated Entity Number: RN102574803  
Customer Reference Number: CN600123939

Dear Senator Alvarado:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.021666,29.748055&level=13>.

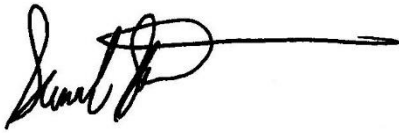
The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site. The FOP identifies and codifies air emission requirements (known as applicable requirements) that apply to the emission units at the site. The FOP does not authorize construction of emission units or emissions from those units. The New Source Review (NSR) permit is the mechanism for these authorizations.

The Honorable Carol Alvarado  
Page 2  
February 3, 2025

Re: Accepted Federal Operating Permit Renewal Application

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel Short", followed by a long horizontal line extending to the right.

Samuel Short, Deputy Director  
Air Permits Division  
Office of Air  
Texas Commission on Environmental Quality

Brooke Paup, *Chairwoman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 3, 2025

THE HONORABLE BRISCOE CAIN  
TEXAS HOUSE OF REPRESENTATIVES  
PO BOX 2910  
AUSTIN TX 78768-2910

Re: Accepted Federal Operating Permit Renewal Application  
Project Number: 37612  
Permit Number: O2269  
Exxon Mobil Corporation  
Baytown Chemical Plant  
Baytown, Harris County  
Regulated Entity Number: RN102574803  
Customer Reference Number: CN600123939

Dear Representative Cain:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.021666,29.748055&level=13>.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site.

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel Short", followed by a long horizontal line.

Samuel Short, Deputy Director  
Air Permits Division  
Office of Air  
Texas Commission on Environmental Quality



## Texas Commission on Environmental Quality

Title V Existing

2269

### Site Information (Regulated Entity)

|                                                       |                                               |
|-------------------------------------------------------|-----------------------------------------------|
| What is the name of the permit area to be authorized? | BAYTOWN CHEMICAL PLANT                        |
| Does the site have a physical address?                | Yes                                           |
| Physical Address                                      |                                               |
| Number and Street                                     | 5000 BAYWAY DR                                |
| City                                                  | BAYTOWN                                       |
| State                                                 | TX                                            |
| ZIP                                                   | 77520                                         |
| County                                                | HARRIS                                        |
| Latitude (N) (##.#####)                               | 29.748055                                     |
| Longitude (W) (-###.#####)                            | 95.021666                                     |
| Primary SIC Code                                      | 2869                                          |
| Secondary SIC Code                                    |                                               |
| Primary NAICS Code                                    | 325199                                        |
| Secondary NAICS Code                                  |                                               |
| Regulated Entity Site Information                     |                                               |
| What is the Regulated Entity's Number (RN)?           | RN102574803                                   |
| What is the name of the Regulated Entity (RE)?        | EXXONMOBIL CHEMICAL BAYTOWN<br>CHEMICAL PLANT |
| Does the RE site have a physical address?             | Yes                                           |
| Physical Address                                      |                                               |
| Number and Street                                     | 5000 BAYWAY DR                                |
| City                                                  | BAYTOWN                                       |
| State                                                 | TX                                            |
| ZIP                                                   | 77520                                         |
| County                                                | HARRIS                                        |
| Latitude (N) (##.#####)                               | 29.745277                                     |
| Longitude (W) (-###.#####)                            | -95.018055                                    |
| Facility NAICS Code                                   |                                               |
| What is the primary business of this entity?          | PETROCHEMICAL MANUFACTURING PLANT             |

### Customer (Applicant) Information

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| How is this applicant associated with this site? | Owner Operator          |
| What is the applicant's Customer Number (CN)?    | CN600123939             |
| Type of Customer                                 | Corporation             |
| Full legal name of the applicant:                |                         |
| Legal Name                                       | Exxon Mobil Corporation |
| Texas SOS Filing Number                          | 3362806                 |
| Federal Tax ID                                   | 135409005               |
| State Franchise Tax ID                           | 11354090059             |

|                                   |         |
|-----------------------------------|---------|
| State Sales Tax ID                |         |
| Local Tax ID                      |         |
| DUNS Number                       | 1213214 |
| Number of Employees               | 501+    |
| Independently Owned and Operated? | Yes     |

## Responsible Official Contact

Person TCEQ should contact for questions about this application:

|                                                              |                                |
|--------------------------------------------------------------|--------------------------------|
| Organization Name                                            | EXXON MOBIL CORPORATION        |
| Prefix                                                       | MR                             |
| First                                                        | GLENN                          |
| Middle                                                       |                                |
| Last                                                         | HAYES                          |
| Suffix                                                       |                                |
| Credentials                                                  |                                |
| Title                                                        | BAYTOWN CHEMICAL PLANT MANAGER |
| Enter new address or copy one from list:                     |                                |
| Mailing Address                                              |                                |
| Address Type                                                 | Domestic                       |
| Mailing Address (include Suite or Bldg. here, if applicable) | PO BOX 4004                    |
| Routing (such as Mail Code, Dept., or Attn:)                 |                                |
| City                                                         | BAYTOWN                        |
| State                                                        | TX                             |
| ZIP                                                          | 77522                          |
| Phone (###-###-####)                                         | 2545453138                     |
| Extension                                                    |                                |
| Alternate Phone (###-###-####)                               |                                |
| Fax (###-###-####)                                           |                                |
| E-mail                                                       | glenn.l.hayes@exxonmobil.com   |

## Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application

Select existing DAR contact or enter a new contact.

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| Organization Name                       | JOHN RINAUDO(EXXON MOBIL COR... ) |
| Prefix                                  | EXXON MOBIL CORPORATION           |
| First                                   | MR                                |
| Middle                                  | JOHN                              |
| Last                                    | RINAUDO                           |
| Suffix                                  | III                               |
| Credentials                             |                                   |
| Title                                   | BAYTOWN AREA SSHE MANAGER         |
| Enter new address or copy one from list |                                   |
| Mailing Address                         |                                   |
| Address Type                            | Domestic                          |

Mailing Address (include Suite or Bldg. here, if applicable)

PO BOX 4004

Routing (such as Mail Code, Dept., or Attn:)

City

BAYTOWN

State

TX

Zip

77522

Phone (###-###-####)

8328644807

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

john.j.rinaudo@exxonmobil.com

## Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.

SIVA THANAPAL(EXXON MOBIL COR... )

Organization Name

EXXON MOBIL CORPORATION

Prefix

MR

First

SIVA

Middle

Last

THANAPAL

Suffix

Credentials

Title

ENVIRONMENTAL ADVISOR

Enter new address or copy one from list:

Mailing Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

PO BOX 4004

Routing (such as Mail Code, Dept., or Attn:)

City

BAYTOWN

State

TX

ZIP

77522

Phone (###-###-####)

2545453630

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

siva.thanapal@exxonmobil.com

## Title V General Information - Existing

1) Permit Type:

SOP

2) Permit Latitude Coordinate:

29 Deg 44 Min 53 Sec

3) Permit Longitude Coordinate:

95 Deg 1 Min 18 Sec

4) Is this submittal a new application or an update to an existing application?

New Application

4.1. What type of permitting action are you applying for?

Renewal

4.1.1. Are there any permits that should be voided upon issuance of this permit application

No

through permit conversion?

4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?

No

5) Who will electronically sign this Title V application?

Duly Authorized Representative

6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?

No

## Title V Attachments Existing

Attach OP-1 (Site Information Summary)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237413>OP-1.pdf</a>

Hash

9D4EDFC EB3F7869286E1F059F2360EC2BE490268D6EC6512E16C0BC00184EF83

MIME-Type

application/pdf

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237414>OP-2.pdf</a>

Hash

22FD4782CFE37B2980B7CC83230EEC7E3668B3CFB678274EA0D04735DD91BE95

MIME-Type

application/pdf

Attach OP-ACPS (Application Compliance Plan and Schedule)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237415>OP-ACPS Form.pdf</a>

Hash

12D44F9E2BD5C20AB9AB452E442E6E30F28A8BCC6784F9562516B0734199F7F6

MIME-Type

application/pdf

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237416>OP-REQ1.pdf</a>

Hash

264EB2ABFF9E4D3A8507FAACC9FE38CA0DE70C5640D823688542664721601125

MIME-Type

application/pdf

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237417>OP-REQ2.pdf</a>

Hash

BEDBAECC4BB82A95F6A204D94F39F6C0A47F4571851CDCD483E50E94DE3D2444

MIME-Type

application/pdf

Attach OP-REQ3 (Applicable Requirements Summary)

[File Properties]

File Name

<a href=/ePermitsExternal/faces/file?fileId=237418>OP-REQ3.pdf</a>

Hash

1C985C2B2FA8BE3700919816F133DA4DB5B9752887B41B630785FF59685A7D54

MIME-Type

application/pdf

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

[File Properties]

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| File Name | <a href="/ePermitsExternal/faces/file?fileId=237420">OP-SUMR.pdf</a> |
| Hash      | A97DE1BF77BE569A9E8B3B7CF458FE439100AE9D4A0F75AFFA40F39E2CD8F617     |
| MIME-Type | application/pdf                                                      |

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

[File Properties]

|           |                                                                                            |
|-----------|--------------------------------------------------------------------------------------------|
| File Name | <a href="/ePermitsExternal/faces/file?fileId=237431">ExxonMobil BTCP O2269 Renewal.pdf</a> |
| Hash      | 4E849EC613EF81406450AA42F36FB160F75BDA915A4455397D9E667952EA286E                           |
| MIME-Type | application/pdf                                                                            |

An additional space to attach any other necessary information needed to complete the permit.

## Expedite Title V

|                                                                                                                                 |    |
|---------------------------------------------------------------------------------------------------------------------------------|----|
| 1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application? | No |
|---------------------------------------------------------------------------------------------------------------------------------|----|

## Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am John J Rinaudo III, the owner of the STEERS account ER097405.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.

7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 2269.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: John J Rinaudo III OWNER OPERATOR

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| Account Number:                      | ER097405                                                         |
| Signature IP Address:                | 136.228.238.119                                                  |
| Signature Date:                      | 2025-01-30                                                       |
| Signature Hash:                      | 6BE2230B3A3F8D921DF9C2F6D76D44B2D457D0C34D1D1E1D1EBC697A0B0D3107 |
| Form Hash Code at time of Signature: | 43FE24C5251CB7165CC33DC75E20EC31501F05FE8C6FF89B0E071A5F0BBCB236 |

## Submission

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Reference Number:    | The application reference number is 751303                       |
| Submitted by:        | The application was submitted by<br>ER097405/John J Rinaudo III  |
| Submitted Timestamp: | The application was submitted on 2025-01-30<br>at 12:16:33 CST   |
| Submitted From:      | The application was submitted from IP address<br>136.228.238.119 |
| Confirmation Number: | The confirmation number is 624508                                |
| Steers Version:      | The STEERS version is 6.86                                       |
| Permit Number:       | The permit number is 2269                                        |

## Additional Information

Application Creator: This account was created by Siva Sankar Thanapal

Exxon Mobil Corporation  
5000 Bayway Drive  
P.O. Box 4004  
Baytown, Texas 77522-4004



*Submitted via ePermits*

January 29, 2025

Air Permits Initial Review Team (APIRT)  
Texas Commission on Environmental Quality

Re: Renewal Application for Federal Operating Permit No. 02269  
Exxon Mobil Corporation Baytown Chemical Plant  
CN600123939; RN102574803; Account Number HG-0229-F

To Whom It May Concern:

In accordance with 30 TAC §122.133, Exxon Mobil Corporation is hereby submitting a renewal application for Federal Operating Permit (FOP) No. 02269 for the Baytown Chemical Plant (BTCPL), located in Baytown, Harris County, Texas. This information is being submitted in accordance with 30 TAC §122.241 and 30 TAC §122.243 and meets all the requirements to qualify as an application for a timely permit renewal.

If you have any additional questions or wish to discuss this submittal, please contact Siva Sankar Thanapal at (254) 545-3630 or [siva.thanapal@exxonmobil.com](mailto:siva.thanapal@exxonmobil.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Allison Korenek".

Allison Korenek  
Environmental Section Supervisor

January 29, 2025

Permit Renewal FOP No. O2269  
CN600123939; RN102574803  
Account Number: HG-0229-F

cc:

Air Section Manager, Region 12  
Texas Commission on Environmental Quality  
5425 Polk Street, Suite H  
Houston, TX 77023-1452

Electronic Copy:  
EPA Region VI  
[R6AirPermitsTX@epa.gov](mailto:R6AirPermitsTX@epa.gov)





**Renewal Application for  
Federal Operating Permit No. O2269**

**for**

**Exxon Mobil Corporation  
Baytown Chemical Plant**

**Baytown, Harris County, Texas**

**January 2025**

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# SECTION 1

## INTRODUCTION

---

Exxon Mobil Corporation is submitting this application for a renewal of Federal Operating Permit (FOP) No. O2269 for the Baytown Chemical Plant (BTCP). Permit No. O2269 was issued on August 3, 2020. Per Title 30 of Texas Administrative Code (30 TAC) §122.241(b), the permit expires no later than five (5) years from issuance or renewal, and a timely application shall be submitted. This renewal application is being submitted as a timely application, as it is being submitted at least six (6) months and no earlier than eighteen (18) months prior to the permit's expiration on August 3, 2025.

### 1.1 Facility Information

BTCP is located in Baytown, Harris County, which is currently classified as a severe nonattainment area for the 2008 eight-hour ozone National Ambient Air Quality Standard (NAAQS) and attainment area for all other criteria pollutants. The location of BTCP is shown on the United States Geological Survey (USGS) Area Map provided in Section 6. A description of the processes at BTCP is also provided in Section 6.

### 1.2 Summary of Changes

A summary of the changes requested in this renewal application is provided below by source type.

#### Engines

- Adding negative applicability for 40 CFR Part 63, Subpart ZZZZ to Unit ID BAPPEGEN1.

#### Storage Tanks

- Addition of new Unit ID TKDIESL1 with negative applicability for 40 CFR Part 60 Subpart Kb and 30 TAC Chapter 115, Subchapter B.
- Adding negative applicability for 40 CFR Part 60 Subpart Kb to TK9012, TK9016, TK9018, TK9020, and TK9026.

#### Cooling Towers

- Addition of 40 CFR Part 63, Subpart FFFF applicability for Unit IDs CT17, CT18, CT70, and CT90.

#### Flares

- Addition of 40 CFR Part 63, Subpart FFFF applicability for Unit IDs FS09, FS23, FS24, and FS30.

#### Process Heaters

- Updating fuel type for Unit IDs IBUF730A/B/C and MPUF2074 for 30 TAC Chapter 117, Subchapter B.

- Removed the annual heat input entry for Unit ID NRUH2 as the maximum rated capacity for this heater is less than 40 MMBTU/hr for 30 TAC Chapter 117, Subchapter B.

#### Pressure Relief Devices

- Addition of Unit IDs PO-874, PO-5212, PO-5508-RD, and PO-5533 with regulatory applicability for 40 CFR Part 63, Subpart FFFF.
- Addition of a new Group ID GRPBAPPPRD for these four Unit IDs.

#### Process Vents

- Updating HRVOC emissions estimation method during scheduled startup, shutdown, and maintenance activities in 30 TAC Chapter 115, Subchapter H for HRVOCATMVT, HRVOCVENTS, IBUF730A/B/C, MPUF2074, NRUF1, NRUF1A, NRUF6, NRUF9A/B, NRU2/3, PAUF311, PAUF321, PFUF501, PFUF510, PFUF530, TDUF501, TDUF507.

#### Other Changes

- Supplemental information for Permit by Rules utilized are included in OP-PBRSUP.
- Update New Source Review (NSR) Authorization based on Permit by Rule registrations for Unit ID BTCPFUG.
- Applicability determination information and general information are updated in OP-REQ1.
- Negative applicability for multiple Unit IDs have been updated in OP-REQ2.
- Applicability requirements information for multiple Unit IDs are provided in Form OP-REQ3.

### **1.3 Application Overview**

This document constitutes a complete FOP renewal application in accordance with 30 TAC Chapter 122. Key components of a complete application are included in this document as follows:

- General and administrative information is included in Section 2;
- Emission unit/process information is included in Section 3;
- Potentially applicable requirement information is included in Section 4;
- Information regarding Compliance Status information is included in Section 5;
- Supplemental information, including an area map and process description, is included in Section 6.

---

---

## SECTION 2

# GENERAL AND ADMINISTRATIVE FORMS

---

This section includes all information related to the administrative details of the renewal application.

### **2.1     Site Information Summary (*Form OP-1*)**

Form OP-1 provides company and site identifying information, contact information, and public notice information to support the FOP review and processing.

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 1)  
Texas Commission on Environmental Quality**

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250 or to the Texas Commission on Environmental Quality, Office of Air, Air-Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

|                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Company Identifying Information</b>                                                                                                                                                                                                                                                                        |
| A. Company Name: <b>Exxon Mobil Corporation</b>                                                                                                                                                                                                                                                                  |
| B. Customer Reference Number (CN): <b>CN600123939</b>                                                                                                                                                                                                                                                            |
| C. Submittal Date (mm/dd/yyyy): <b>01/29/2025</b>                                                                                                                                                                                                                                                                |
| <b>II. Site Information</b>                                                                                                                                                                                                                                                                                      |
| A. Site Name: <b>Baytown Chemical Plant</b>                                                                                                                                                                                                                                                                      |
| B. Regulated Entity Reference Number (RN): <b>RN102574803</b>                                                                                                                                                                                                                                                    |
| C. Indicate affected state(s) required to review permit application: <i>(Check the appropriate box[es].)</i>                                                                                                                                                                                                     |
| <input type="checkbox"/> AR <input type="checkbox"/> CO <input type="checkbox"/> KS <input type="checkbox"/> LA <input type="checkbox"/> NM <input type="checkbox"/> OK <input checked="" type="checkbox"/> N/A                                                                                                  |
| D. Indicate all pollutants for which the site is a major source based on the site's potential to emit:<br><i>(Check the appropriate box[es].)</i>                                                                                                                                                                |
| <input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> NO <sub>x</sub> <input checked="" type="checkbox"/> SO <sub>2</sub> <input checked="" type="checkbox"/> PM <sub>10</sub> <input checked="" type="checkbox"/> CO <input type="checkbox"/> Pb <input checked="" type="checkbox"/> HAPS |
| Other:                                                                                                                                                                                                                                                                                                           |
| E. Is the site a non-major source subject to the Federal Operating Permit Program? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>                                                                                                                        |
| F. Is the site within a local program area jurisdiction? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</span>                                                                                                                                                  |
| G. Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>                                                                                                                         |
| H. Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging: <b>N/A</b>                                                                                                                                                                                                                          |
| <b>III. Permit Type</b>                                                                                                                                                                                                                                                                                          |
| A. Type of Permit Requested: <i>(Select only one response)</i>                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> Site Operating Permit (SOP) <input type="checkbox"/> Temporary Operating Permit (TOP) <input type="checkbox"/> General Operating Permit (GOP)                                                                                                                                |

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 2)  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IV. Initial Application Information</b> <i>(Complete for Initial Issuance Applications Only.)</i>                                                                                                                                                         |
| <b>A.</b> Is this submittal an abbreviated or a full application? <span style="float: right;"><input type="checkbox"/> Abbreviated <input type="checkbox"/> Full</span>                                                                                      |
| <b>B.</b> If this is a full application, is the submittal a follow-up to an abbreviated application? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>                                                             |
| <b>C.</b> If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>                                             |
| <b>D.</b> Has an electronic copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.) <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span> |
| <b>E.</b> Has the required Public Involvement Plan been included with this application? <span style="float: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</span>                                                                          |
| <b>V. Confidential Information</b>                                                                                                                                                                                                                           |
| <b>A.</b> Is confidential information submitted in conjunction with this application? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>                                                                 |
| <b>VI. Responsible Official (RO) Identifying Information</b>                                                                                                                                                                                                 |
| RO Name Prefix: ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)                                                                                                           |
| RO Full Name: <b>Glenn L. Hayes</b>                                                                                                                                                                                                                          |
| RO Title: <b>Baytown Chemical Plant Manager</b>                                                                                                                                                                                                              |
| Employer Name: <b>Exxon Mobil Corporation</b>                                                                                                                                                                                                                |
| Mailing Address: <b>P.O. Box 4004</b>                                                                                                                                                                                                                        |
| City: <b>Baytown</b>                                                                                                                                                                                                                                         |
| State: <b>TX</b>                                                                                                                                                                                                                                             |
| ZIP Code: <b>77522</b>                                                                                                                                                                                                                                       |
| Territory:                                                                                                                                                                                                                                                   |
| Country:                                                                                                                                                                                                                                                     |
| Foreign Postal Code:                                                                                                                                                                                                                                         |
| Internal Mail Code:                                                                                                                                                                                                                                          |
| Telephone No.: <b>(346) 502-7559</b>                                                                                                                                                                                                                         |
| Fax No.:                                                                                                                                                                                                                                                     |
| Email: <b>glenn.l.hayes@exxonmobil.com</b>                                                                                                                                                                                                                   |

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 3)  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VII. Technical Contact Identifying Information</b> <i>(Complete if different from RO.)</i>                                                                                                                                                     |
| Technical Contact Name Prefix: ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)                                                                                 |
| Technical Contact Full Name: <b>Siva Sankar Thanapal</b>                                                                                                                                                                                          |
| Technical Contact Title: <b>Air Permits Advisor</b>                                                                                                                                                                                               |
| Employer Name: <b>Exxon Mobil Corporation</b>                                                                                                                                                                                                     |
| Mailing Address: <b>P.O. Box 4004</b>                                                                                                                                                                                                             |
| City: <b>Baytown</b>                                                                                                                                                                                                                              |
| State: <b>TX</b>                                                                                                                                                                                                                                  |
| ZIP Code: <b>77522</b>                                                                                                                                                                                                                            |
| Territory:                                                                                                                                                                                                                                        |
| Country:                                                                                                                                                                                                                                          |
| Foreign Postal Code:                                                                                                                                                                                                                              |
| Internal Mail Code:                                                                                                                                                                                                                               |
| Telephone No.: <b>(254) 545-3630</b>                                                                                                                                                                                                              |
| Fax No.:                                                                                                                                                                                                                                          |
| Email: <b>siva.thanapal@exxonmobil.com</b>                                                                                                                                                                                                        |
| <b>VIII. Reference Only Requirements</b> <i>(For reference only.)</i>                                                                                                                                                                             |
| <b>A.</b> State Senator: <b>Carol Alvarado</b>                                                                                                                                                                                                    |
| <b>B.</b> State Representative: <b>Briscoe Cain</b>                                                                                                                                                                                               |
| <b>C.</b> Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</span> |
| <b>D.</b> Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</span>                                               |
| <b>E.</b> Indicate the alternate language(s) in which public notice is required: <b>Spanish</b>                                                                                                                                                   |



**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 4)  
Texas Commission on Environmental Quality**

|                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IX. Off-Site Permit Request</b><br><i>(Optional for applicants requesting to hold the FOP and records at an off-site location.)</i>                 |
| <b>A.</b> Office/Facility Name:                                                                                                                        |
| <b>B.</b> Physical Address:                                                                                                                            |
| City:                                                                                                                                                  |
| State:                                                                                                                                                 |
| ZIP Code:                                                                                                                                              |
| Territory:                                                                                                                                             |
| Country:                                                                                                                                               |
| Foreign Postal Code:                                                                                                                                   |
| <b>C.</b> Physical Location:                                                                                                                           |
|                                                                                                                                                        |
|                                                                                                                                                        |
|                                                                                                                                                        |
| <b>D.</b> Contact Name Prefix: ( <input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.) |
| Contact Full Name:                                                                                                                                     |
| <b>E.</b> Telephone No.:                                                                                                                               |
| <b>X. Application Area Information</b>                                                                                                                 |
| <b>A.</b> Area Name: <b>Baytown Chemical Plant</b>                                                                                                     |
| <b>B.</b> Physical Address: <b>5000 Bayway Drive</b>                                                                                                   |
| City: <b>Baytown</b>                                                                                                                                   |
| State: <b>TX</b>                                                                                                                                       |
| ZIP Code: <b>77520</b>                                                                                                                                 |
| <b>C.</b> Physical Location:                                                                                                                           |
|                                                                                                                                                        |
|                                                                                                                                                        |
|                                                                                                                                                        |
| <b>D.</b> Nearest City:                                                                                                                                |
| <b>E.</b> State:                                                                                                                                       |
| <b>F.</b> ZIP Code:                                                                                                                                    |

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 5)  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>X. Application Area Information (continued)</b>                                                                                                                                                                                                                             |
| <b>G.</b> Latitude (nearest second): <b>29° 44' 54.1" N</b>                                                                                                                                                                                                                    |
| <b>H.</b> Longitude (nearest second): <b>95° 01' 18.4" W</b>                                                                                                                                                                                                                   |
| <b>I.</b> Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> |
| <b>J.</b> Indicate the estimated number of emission units in the application area: <b>400</b>                                                                                                                                                                                  |
| <b>K.</b> Are there any emission units in the application area subject to the Acid Rain Program? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span>                                                                        |
| <b>L.</b> Affected Source Plant Code (or ORIS/Facility Code):                                                                                                                                                                                                                  |
| <b>XI. Public Notice</b><br>(Complete this section for SOP Applications and Acid Rain Permit Applications only.)                                                                                                                                                               |
| <b>A.</b> Name of a public place to view application and draft permit: <b>Sterling Municipal Library</b>                                                                                                                                                                       |
| <b>B.</b> Physical Address: <b>1 Mary Elizabeth Willbanks Ave.</b>                                                                                                                                                                                                             |
| City: <b>Baytown</b>                                                                                                                                                                                                                                                           |
| ZIP Code: <b>77520</b>                                                                                                                                                                                                                                                         |
| <b>C.</b> Contact Person (Someone who will answer questions from the public during the public notice period):                                                                                                                                                                  |
| Contact Name Prefix: ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.):                                                                                                                       |
| Contact Person Full Name: <b>Siva Sankar Thanapal</b>                                                                                                                                                                                                                          |
| Contact Mailing Address: <b>P.O. Box 4004</b>                                                                                                                                                                                                                                  |
| City: <b>Baytown</b>                                                                                                                                                                                                                                                           |
| State: <b>TX</b>                                                                                                                                                                                                                                                               |
| ZIP Code: <b>77520</b>                                                                                                                                                                                                                                                         |
| Territory:                                                                                                                                                                                                                                                                     |
| Country:                                                                                                                                                                                                                                                                       |
| Foreign Postal Code:                                                                                                                                                                                                                                                           |
| Internal Mail Code:                                                                                                                                                                                                                                                            |
| Telephone No.: <b>(254) 545-3630</b>                                                                                                                                                                                                                                           |

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 6)  
Texas Commission on Environmental Quality**

**XII. Delinquent Fees and Penalties**

**Notice:** This form will not be processed until all delinquent fees and/or penalties owed to TCEQ or the Office of Attorney General on behalf of TCEQ are paid in accordance with the "Delinquent Fee and Penalty Protocol."

**Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.**

**XIII. Designated Representative (DR) Identifying Information**

DR Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)

DR Full Name:

DR Title:

Employer Name:

Mailing Address:

City:

State:

ZIP Code:

Territory:

Country:

Foreign Postal Code:

Internal Mail Code:

Telephone No.:

Fax No.:

Email:

**Federal Operating Permit Program  
Site Information Summary  
Form OP-1 (Page 7)  
Texas Commission on Environmental Quality**

**Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.**

**XIV. Alternate Designated Representative (ADR) Identifying Information**

ADR Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)

ADR Full Name:

ADR Title:

Employer Name:

Mailing Address:

City:

State:

ZIP Code:

Territory:

Country:

Foreign Postal Code:

Internal Mail Code:

Telephone No.:

Fax No.:

Email:

## **2.2 Application for Permit Revision/Renewal (*Form OP-2*)**

Form OP-2 provided in this section summarizes changes that are requested for FOP O2269.

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Date: <b>01/29/2025</b>                                                                                                                                                                          |  |
| Permit No.: <b>O2269</b>                                                                                                                                                                         |  |
| Regulated Entity No.: <b>RN102574803</b>                                                                                                                                                         |  |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                                                                                     |  |
| For Submissions to EPA                                                                                                                                                                           |  |
| Has an electronic copy of this application been submitted (or is being submitted) to EPA? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> |  |
| <b>I. Application Type</b>                                                                                                                                                                       |  |
| Indicate the type of application:                                                                                                                                                                |  |
| <input checked="" type="checkbox"/> Renewal                                                                                                                                                      |  |
| <input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)                                                                  |  |
| <input type="checkbox"/> Significant Revision                                                                                                                                                    |  |
| <input type="checkbox"/> Revision Requesting Prior Approval                                                                                                                                      |  |
| <input type="checkbox"/> Administrative Revision                                                                                                                                                 |  |
| <input type="checkbox"/> Response to Reopening                                                                                                                                                   |  |
| <b>II. Qualification Statement</b>                                                                                                                                                               |  |
| For SOP Revisions Only <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                    |  |
| For GOP Revisions Only <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                               |  |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 1 (continued)  
Texas Commission on Environmental Quality**

**III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)**

Indicate all pollutants for which the site is a major source based on the site's potential to emit:

*(Check the appropriate box[es].)*

☐ VOC                      ☐ NO<sub>x</sub>                      ☐ SO<sub>2</sub>                      ☐ PM<sub>10</sub>                      ☐ CO                      ☐ Pb                      ☐ HAP

Other:

**IV. Reference Only Requirements (For reference only)**

Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?                      ☒ YES   ☐ NO   ☐ N/A

**V. Delinquent Fees and Penalties**

Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 2  
Texas Commission on Environmental Quality**

|                                              |
|----------------------------------------------|
| Date: <b>01/29/2025</b>                      |
| Permit No.: <b>O2269</b>                     |
| Regulated Entity No.: <b>RN102574803</b>     |
| Company Name: <b>Exxon Mobil Corporation</b> |

Using the table below, provide a description of the revision.

| Revision No. | Revision Code | New Unit | Unit/Group | Process            | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                          |
|--------------|---------------|----------|------------|--------------------|----------------------|--------------------------------------------------------------------------------------------------------|
|              |               |          | ID No.     | Applicable<br>Form |                      |                                                                                                        |
| 1            | SIG-E         | NO       | TK9012     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 2            | SIG-E         | NO       | TK9016     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 3            | SIG-E         | NO       | TK9018     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 4            | SIG-E         | NO       | TK9020     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 5            | SIG-E         | NO       | TK9026     | OP-REQ2            | N/A                  | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                              |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2 | N/A                  | Adding new Unit ID to Title V Permit.<br><br>Add negative applicability for 40 CFR Part 60 Subpart Kb. |



| Revision No. | Revision Code |          | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                     |
|--------------|---------------|----------|------------|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.     | Applicable Form              |                   |                                                                                                                                |
| 6            | SIG-E         | NO       | TKDIESL1   | OP-SUMR<br>OP-REQ2           | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 7            | SIG-E         | NO       | TK3196     | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart Kb.                                                                      |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 8            | SIG-E         | NO       | TO3645VENT | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart DDD.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart NNN.                                                                     |
| 9            | SIG-E         | NO       | FS30-VENT  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 60 Subpart RRR.                                                                     |
| 10           | SIG-E         | NO       | CT90       | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart Q.                                                                       |
| 11           | SIG-E         | NO       | TK0560     | OP-REQ2                      | N/A               | Add negative applicability for 30 TAC Chapter 115 Subchapter B.                                                                |
| 12           | SIG-E         | NO       | BAPPEGEN1  | OP-REQ2                      | N/A               | Add negative applicability for 40 CFR Part 63 Subpart ZZZZ.                                                                    |
| 13           | MS-C          | NO       | CT17       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF. |

| Revision No. | Revision Code | New Unit | Unit/Group | Process                      | NSR Authorization | Description of Change and Provisional Terms and Conditions                                                                                                                                                                                                       |
|--------------|---------------|----------|------------|------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               |          | ID No.     | Applicable Form              |                   |                                                                                                                                                                                                                                                                  |
| 14           | MS-C          | NO       | CT18       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 15           | MS-C          | NO       | CT70       | OP-UA1<br>OP-UA13<br>OP-REQ3 | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.<br><br>Remove existing citations for 40 CFR Part 63 Subpart FFFF.                                                                                                                                   |
| 16           | MS-C          | NO       | FS09       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 17           | MS-C          | NO       | FS23       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 18           | MS-C          | NO       | FS24       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 19           | MS-C          | NO       | FS30       | OP-UA1<br>OP-REQ3            | N/A               | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                                                                                                                                     |
| 20           | MS-A          | NO       | BTCPFUG    | OP-SUMR<br>OP-PBRSUP         | 177978<br>178653  | Additional emissions requested to be authorized under PBRs 106.262/11/01/2003 (PBR Registration No. 177978) and 106.261/11/01/2003 / 106.262/11/01/2003 (PBR Registration No. 178653). This NSR permit action does not affect existing regulatory applicability. |

| Revision No. | Revision Code |          | Unit/Group                                                                                                                                                                          | Process                      | NSR<br>Authorization | Description of Change and Provisional<br>Terms and Conditions                                                                                 |
|--------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|              |               | New Unit | ID No.                                                                                                                                                                              | Applicable<br>Form           |                      |                                                                                                                                               |
| 21           | MS-C          | NO       | CT90                                                                                                                                                                                | OP-UA1<br>OP-REQ3            | N/A                  | Add applicable requirements for 40 CFR Part 63 Subpart FFFF.                                                                                  |
| 22           | MS-C          | Yes      | GRPBAPPPRD<br>PO-874<br>PO-5212<br>PO-5508-RD<br>PO-5533                                                                                                                            | OP-SUMR<br>OP-UA1<br>OP-REQ3 | N/A                  | Adding new Group ID to Title V Permit.<br>Adding new Unit IDs to Title V Permit.<br>Adding applicability for 40 CFR Part 63, Subpart FFFF.    |
| 23           | MS-C          | NO       | IBUF730A/B/C                                                                                                                                                                        | OP-UA5                       | N/A                  | Update fuel type for 30 TAC Chapter 117, Subchapter B.                                                                                        |
| 24           | MS-C          | NO       | NRUH2                                                                                                                                                                               | OP-UA5                       | N/A                  | Removed annual heat input entry for 30 TAC Chapter 117, Subchapter B.                                                                         |
| 25           | MS-C          | NO       | HRVOCATMVT<br>HRVOCVENTS<br>IBUF730A/B/C<br>MPUF2074<br>NRUF1<br>NRUF1A<br>NRUF6<br>NRUF9A/B<br>NRU2/3<br>PAUF311<br>PAUF321<br>PFUF501<br>PFUF510<br>PFUF530<br>TDUF501<br>TDUF507 | OP-UA15                      | N/A                  | Updating HRVOC emission estimation method during scheduled startup, shutdown, and maintenance activities in 30 TAC Chapter 115, Subchapter H. |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 3  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                       |                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: <b>01/29/2025</b>                                                                                                                                                               |                                                                                                                                                                                                    |
| Permit No.: <b>O2269</b>                                                                                                                                                              |                                                                                                                                                                                                    |
| Regulated Entity No.: <b>RN102574803</b>                                                                                                                                              |                                                                                                                                                                                                    |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                                                                          |                                                                                                                                                                                                    |
| <b>I. Significant Revision</b> <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i> |                                                                                                                                                                                                    |
| A.                                                                                                                                                                                    | Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                 |
| B.                                                                                                                                                                                    | Indicate the alternate language(s) in which public notice is required: <b>Spanish</b>                                                                                                              |
| C.                                                                                                                                                                                    | Will, there be a change in air pollutant emissions as a result of the significant revision? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span> |

### **2.3 Responsible Official Certification (*Form OP-CRO1*)**

Form OP-CRO1, Certification by Responsible Official, allows the Responsible Official or his/her appropriate designee to certify all documents submitted to the TCEQ in support of an FOP pursuant to 30 TAC §122.165.

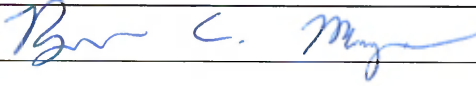
**Form OP-CRO1**  
**Certification by Responsible Official**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

|                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Identifying Information</b>                                                                                                      |
| RN: <b>RN102574803</b>                                                                                                                 |
| CN: <b>CN600123939</b>                                                                                                                 |
| Account No.: <b>HG-0229-F</b>                                                                                                          |
| Permit No.: <b>O2269</b>                                                                                                               |
| Project No.: <b>TBA</b>                                                                                                                |
| Area Name: <b>Baytown Chemical Plant</b>                                                                                               |
| Company Name: <b>Exxon Mobil Corporation</b>                                                                                           |
| <b>II. Certification Type</b> <i>(Please mark appropriate box)</i>                                                                     |
| <input type="checkbox"/> Responsible Official Representative <input checked="" type="checkbox"/> Duly Authorized Representative        |
| <b>III. Submittal Type</b> <i>(Please mark appropriate box) (Only one response can be accepted per form)</i>                           |
| <input type="checkbox"/> SOP/TOP Initial Permit Application <input checked="" type="checkbox"/> Permit Revision, Renewal, or Reopening |
| <input type="checkbox"/> GOP Initial Permit Application <input type="checkbox"/> Update to Permit Application                          |
| <input type="checkbox"/> Other: _____                                                                                                  |

**Form OP-CRO1**  
**Certification by Responsible Official**  
**Federal Operating Permit Program**  
**Texas Commission on Environmental Quality**

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

|                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|
| <b>IV. Certification of Truth</b>                                                                                                                                                                                                                                                                                                                                                               |  |                                          |  |
| <b>This certification does not extend to information which is designated by TCEQ as information for reference only.</b>                                                                                                                                                                                                                                                                         |  |                                          |  |
| I, <u><b>Brian C. Mayo</b></u> certify that I am the <u><b>DAR</b></u><br><div style="display: flex; justify-content: space-between;"><span><i>(Certifier Name printed or typed)</i></span><span><i>(RO or DAR)</i></span></div>                                                                                                                                                                |  |                                          |  |
| and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:<br><i>Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).</i> |  |                                          |  |
| Time Period: From _____ to _____<br><div style="display: flex; justify-content: space-between;"><span><i>(Start Date)</i></span><span><i>(End Date)</i></span></div>                                                                                                                                                                                                                            |  |                                          |  |
| Specific Dates: <u><b>01/29/2025</b></u> _____<br><div style="display: flex; justify-content: space-between;"><span><i>(Date 1)</i></span><span><i>(Date 2)</i></span><span><i>(Date 3)</i></span><span><i>(Date 4)</i></span></div>                                                                                                                                                            |  |                                          |  |
| _____<br><div style="display: flex; justify-content: space-between;"><span><i>(Date 5)</i></span><span><i>(Date 6)</i></span></div>                                                                                                                                                                                                                                                             |  |                                          |  |
| Signature: <u></u>                                                                                                                                                                                                                                                                                           |  | Signature Date: <u><b>01/29/2025</b></u> |  |
| Title: <u><b>BTCP Process Manager</b></u>                                                                                                                                                                                                                                                                                                                                                       |  |                                          |  |

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## SECTION 3

# EMISSION UNIT INFORMATION

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This section contains the information relating to emission units addressed by the Federal Operating Permit.

### **3.1 Individual Unit Summary for Revisions (*Form OP-SUMR*)**

Form OP-SUMR provided in this section lists individual emission units and provides identifying information and preconstruction authorizations. Bold font indicates new information to be added/updated.



Texas Commission on Environmental Quality  
Federal Operating Permit Program  
Individual Unit Summary for Revisions  
Form OP-SUMR

[Table 1](#)

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit/Process AI | Unit/Process Revision No. | Unit/Process ID No. | Unit/Process Applicable Form | Unit/Process Name/ Description | Unit/Process CAM | Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106 | Preconstruction Authorizations Title I |
|-----------------|---------------------------|---------------------|------------------------------|--------------------------------|------------------|-----------------------------------------------------------------------|----------------------------------------|
|                 | 1                         | TK9012              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
|                 | 2                         | TK9016              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
|                 | 3                         | TK9018              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
|                 | 4                         | TK9020              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
|                 | 5                         | TK9026              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
| <b>A</b>        | <b>6</b>                  | <b>TKDIESL1</b>     | <b>OP-REQ2</b>               | <b>TANK</b>                    |                  | <b>149177, PAL16</b>                                                  |                                        |
|                 | 7                         | TK3196              | OP-REQ2                      | TANK                           |                  | 149177, PAL16                                                         |                                        |
|                 | 8                         | TO3645VENT          | OP-REQ2                      | PROCESS VENT                   |                  | 149177, PAL16                                                         |                                        |
|                 | 9                         | FS30-VENT           | OP-REQ2                      | PROCESS VENT                   |                  | 149177, PAL16                                                         |                                        |
|                 | 10                        | CT90                | OP-REQ2                      | COOLING TOWER                  |                  | 149177, PAL16                                                         |                                        |
|                 | 11                        | TK0560              | OP-REQ2                      | STORAGE TANK                   |                  | 20211, PAL16                                                          |                                        |
|                 | 12                        | BAPPEGEN1           | OP-REQ2                      | ENGINE                         |                  | 106.511/09/04/2000                                                    |                                        |

| Unit/Process AI | Unit/Process Revision No. | Unit/Process ID No. | Unit/Process Applicable Form | Unit/Process Name/ Description    | Unit/Process CAM | Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106                                                                                                                                        | Preconstruction Authorizations Title I |
|-----------------|---------------------------|---------------------|------------------------------|-----------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                 | 13                        | CT17                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600                                                                                                                                                                                                         |                                        |
|                 | 14                        | CT18                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600, 96220, 106.261/11/01/2003 [167076], 106.262/11/01/2003 [167076]                                                                                                                                        |                                        |
|                 | 15                        | CT70                | OP-UA1<br>OP-UA13<br>OP-REQ3 | INDUSTRIAL PROCESS COOLING TOWERS |                  | 4600                                                                                                                                                                                                         |                                        |
|                 | 16                        | FS09                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 106.261/11/01/2003 [144054, 155971, 164637, 162035, 165167, 167076], 106.262/11/01/2003 [144054, 155971, 162035, 165167, 167076]                                                                |                                        |
|                 | 17                        | FS23                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 106.261/11/01/2003 [144054, 155971, 164637, 162035, 165167, 167076], 106.262/11/01/2003 [144054, 155971, 162035, 165167, 167076]                                                                |                                        |
|                 | 18                        | FS24                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 4600, 96220, 157358, 106.261/09/04/2000 [50763] 106.261/11/01/2003 [155971, 164637, 162035, 165167, 167076, 76317, 80411, 144054], 106.262/11/01/2003 [155971, 162035, 165167, 167076, 76317, 80411, 144054] |                                        |
|                 | 19                        | FS30                | OP-UA1<br>OP-REQ3            | FLARE STACK                       |                  | 149177, PAL16, 106.261/11/01/2003 [177840], 106.262/11/01/2003 [177840]                                                                                                                                      |                                        |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|-----------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                    | 20                           | BTCPFUG                | OP-SUMR<br>OP-PBRSUP               | FUGITIVES                         |                     | 4600, 8586, 9571, 20211, 28441,<br>36476, 96220, 149177, PAL16,<br>106.261/12/24/1998 [44074],<br>106.261/09/04/2000 [54715],<br>106.261/11/01/2003 [120433,<br>122563, 122598, 109284, 109740,<br>110913, 109761, 122827, 123832,<br>117728, 118027, 118033, 124055,<br>129931, 130000, 131373, 132686,<br>133867, 134883, 136257, 108815,<br>136006, 136897, 138601, 138709,<br>138869, 139477, 141229, 144054,<br>145938, 147270, 148600, 151017,<br>157551, 156187, 158011, 159030,<br>158895, 160645, 159463, 160328,<br>160542, 163045, 164917, 166371,<br>163693, 164637, 165468, 166583,<br>168038, 168285, 168038, 167076,<br>151221, 152890, 170489, 172082,<br>172613, 174327, 174957, 175445,<br>175762, 177840, <b>178653</b> ],<br>106.262/09/04/2000 [50641,<br>54171, 54715], |                                              |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID<br>No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/<br>Description | Unit/Process<br>CAM | Preconstruction Authorizations<br>30 TAC Chapter 116/ 30 TAC<br>Chapter 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Preconstruction<br>Authorizations<br>Title I |
|--------------------|------------------------------|------------------------|------------------------------------|-----------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                    | 20                           | BTCPFUG                | OP-SUMR<br>OP-PBRSUP               | FUGITIVES                         |                     | (cont)<br>106.262/11/01/2003 [104818,<br>107195, 109761, 108815, 109740,<br>110913, 112083, 117728, 118027,<br>112780, 122827, 123625, 118033,<br>120433, 122563, 122598, 124055,<br>126098, 123832, 134883, 136257,<br>129931, 130000, 132686, 133867,<br>135448, 136006, 136897, 138601,<br>138709, 138869, 139447, 141229,<br>144054, 147270, 148600, 151017,<br>157551, 158011, 158351, 159030,<br>158895, 159339, 159463, 160328,<br>160542, 163045, 164917, 163693,<br>165468, 168038, 166371, 166583,<br>168038, 71653, 76270, 76317,<br>80253, 80411, 80715, 80920,<br>81081, 82149, 82657, 83400,<br>83906, 167076, 152890, 154259,<br>170489, 172613, 174327, 174957,<br>175445, 176317, 177840, <b>177978,</b><br><b>178653</b> ], 106.263/11/01/2001,<br>106.472/09/04/2000 [123625],<br>106.473/09/04/2000 [160542] |                                              |
| A                  | 22                           | PO-874                 | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |
| A                  | 22                           | PO-5212                | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |
| A                  | 22                           | PO-5508-RD             | OP-SUMR<br>OP-UA1<br>OP-REQ3       | Pressure Relief Devices           |                     | 8586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |

TCEQ-10344 (APDG 5767v7, Revised 05/20) OP-SUMR

This form is for use by facilities subject to air quality permit requirements and  
may be revised periodically.

| <b>Unit/Process<br/>AI</b> | <b>Unit/Process<br/>Revision No.</b> | <b>Unit/Process ID<br/>No.</b> | <b>Unit/Process<br/>Applicable<br/>Form</b> | <b>Unit/Process Name/<br/>Description</b> | <b>Unit/Process<br/>CAM</b> | <b>Preconstruction Authorizations<br/>30 TAC Chapter 116/ 30 TAC<br/>Chapter 106</b> | <b>Preconstruction<br/>Authorizations<br/>Title I</b> |
|----------------------------|--------------------------------------|--------------------------------|---------------------------------------------|-------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>A</b>                   | <b>22</b>                            | <b>PO-5533</b>                 | <b>OP-SUMR<br/>OP-UA1<br/>OP-REQ3</b>       | <b>Pressure Relief Devices</b>            |                             | <b>8586</b>                                                                          |                                                       |

Texas Commission on Environmental Quality  
Federal Operating Permit Program  
Individual Unit Summary for Revisions  
Form OP-SUMR

[Table 2](#)

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Revision No. | ID No.     | Applicable Form              | Group AI | Group ID No. |
|--------------|------------|------------------------------|----------|--------------|
| 22           | PO-874     | OP-SUMR<br>OP-UA1<br>OP-REQ3 | A        | GRPBAPPPRD   |
| 22           | PO-5212    | OP-SUMR<br>OP-UA1<br>OP-REQ3 | A        | GRPBAPPPRD   |
| 22           | PO-5508-RD | OP-SUMR<br>OP-UA1<br>OP-REQ3 | A        | GRPBAPPPRD   |
| 22           | PO-5533    | OP-SUMR<br>OP-UA1<br>OP-REQ3 | A        | GRPBAPPPRD   |
|              |            |                              |          |              |
|              |            |                              |          |              |
|              |            |                              |          |              |
|              |            |                              |          |              |

### 3.2 Unit Attribute Forms (*UA Forms*)

This section contains the applicable unit attribute forms summarized below. The forms provided are TCEQ's most updated versions of the UA forms. Bold indicates new information to be added/updated; strikethrough indicates information to be deleted. Answers that are not in bold or strikethrough font should match the data in the Information Management System. For the UA forms which were updated recently, the entirety of the UA form is submitted with existing information along with the changes requested as part of the renewal application.

- OP-UA1: Miscellaneous Unit Attributes (Page 1)
- OP-UA2: Stationary Reciprocating Internal Combustion Engine Attributes
  - 30 TAC Chapter 117, Subchapter B (Tables 1a-c)
  - 40 CFR Part 63, Subpart ZZZZ (Tables 2a-c)
  - 40 CFR Part 60, Subpart JJJJ (Table 4a)
  - 40 CFR Part 60, Subpart IIII (Tables 5a-c)
- OP-UA3: Storage Tank/Vessel Attributes
  - 40 CFR Part 60, Subpart Ka (Table 2)
  - 40 CFR Part 60, Subpart Kb (Table 3)
  - 30 TAC Chapter 115, Subchapter B (Tables 4a-b)
  - 40 CFR Part 61, Subpart Y (Table 6)
  - 40 CFR Part 63, Subpart G (Tables 9a-b)
  - 40 CFR Part 61, Subpart FF (Tables 12a-c)
  - 40 CFR Part 63, Subpart U (Tables 17a-b)
  - 40 CFR Part 63, Subpart FFFF (Tables 21 & 22)
- OP-UA4: Loading/Unloading Operations Attributes
  - 30 TAC Chapter 115, Subchapter C (Tables 1a-b)
  - 40 CFR Part 63, Subpart FFFF (Tables 9a-c)
- OP-UA5: Process Heater/Furnace Attributes
  - 30 TAC Chapter 117, Subchapter B (Tables 1a-c)
  - 40 CFR Part 63, Subpart DDDDD (Tables 6a-b)
- OP-UA6: Boiler/Steam Generator/Steam Generating Unit Attributes
  - 40 CFR Part 60, Subpart Db (Tables 3a-d)
- OP-UA7: Flare Attributes
  - 30 TAC Chapter 111 (Table 1)
  - 40 CFR Part 60, Subpart A (Table 3)
  - 40 CFR Part 63, Subpart A (Table 4)
  - 30 TAC Chapter 115, Subchapter H (Tables 5a-b)
- OP-UA12: Fugitive Emission Unit Attributes
  - 30 TAC Chapter 115, Subchapter D (Tables 2a, k)
  - 40 CFR Part 60, Subpart VV (Tables 4a, h-l)
  - 40 CFR Part 60, Subpart DDD (Tables 5a, g-h)
  - 40 CFR Part 63, Subpart H (Tables 9a, f-g)
  - 40 CFR Part 63, Subpart U (Tables 14a, h-m)

- 30 TAC Chapter 115, Subchapter H (Tables 16a-g)
  - 40 CFR Part 60, Subpart VVa (Tables 17a-l)
- OP-UA13: Cooling Tower Attributes
  - 30 TAC Chapter 115, Subchapter H (Tables 3a-b)
  - 40 CFR Part 63, Subpart FFFF (Table 6)
- OP-UA14: Water Separator Attributes
  - 30 TAC Chapter 115, Subchapter B (Table 1)
  - 40 CFR Part 63, Subpart VV (Table 2a)
- OP-UA15: Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
  - 30 TAC Chapter 111 (Table 1a)
  - 30 TAC Chapter 115, Subchapter B (Tables 2a-c)
  - 40 CFR Part 63, Subpart G (Tables 6a-c)
  - 40 CFR Part 63, Subpart U (Tables 8a-c)
  - 30 TAC Chapter 115, Subchapter H (Tables 12a-b)
  - 40 CFR Part 63, Subpart FFFF (Tables 13a-g, 14)
- OP-UA16: Solvent Degreasing Machine Attributes
  - 30 TAC Chapter 115, Subchapter E (Table 1)
  - 40 CFR Part 63, Subpart T (Table 2a)
- OP-UA58: Treatment Process Attributes
  - 40 CFR Part 61, Subpart FF (Tables 2a-c)
  - 40 CFR Part 63, Subpart G (Tables 3a-c)



**Texas Commission on Environmental Quality  
Miscellaneous Unit Attributes  
Form OP-UA1 (Page 1)  
Federal Operating Permit Program**

|                              |                    |
|------------------------------|--------------------|
| <b>Date:</b>                 | <b>01/29/2025</b>  |
| <b>Permit No.:</b>           | <b>O2269</b>       |
| <b>Regulated Entity No.:</b> | <b>RN102574803</b> |

| <b>Unit ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Unit Type</b> | <b>Date<br/>Constructed/Placed<br/>in Service</b> | <b>Functionally<br/>Identical<br/>Replacement</b> | <b>Maximum<br/>Rated<br/>Capacity</b> | <b>Technical Information and<br/>Unit Description</b>                         |
|--------------------|--------------------------|------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------|
| <b>CT17</b>        | <b>63FFFF-CT</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2490(d) applies to Cooling Towers</b> |
| <b>CT18</b>        | <b>63FFFF-CT</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2490(d) applies to Cooling Towers</b> |
| <b>CT70</b>        | <b>63FFFF-CT</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2490(d) applies to Cooling Towers</b> |
| <b>FS09</b>        | <b>63FFFF-FS</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2450(e)(5) applies to Flares</b>      |
| <b>FS23</b>        | <b>63FFFF-FS</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2450(e)(5) applies to Flares</b>      |
| <b>FS24</b>        | <b>63FFFF-FS</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2450(e)(5) applies to Flares</b>      |
| <b>FS30</b>        | <b>63FFFF-FS</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2450(e)(5) applies to Flares</b>      |
| <b>CT90</b>        | <b>63FFFF-CT</b>         | <b>EU</b>        |                                                   |                                                   |                                       | <b>40 CFR Part 63 Subpart FFFF §<br/>63.2490(d) applies to Cooling Towers</b> |

| Unit ID No. | SOP/GOP Index No. | Unit Type | Date<br>Constructed/Placed<br>in Service | Functionally<br>Identical<br>Replacement | Maximum<br>Rated<br>Capacity | Technical Information and<br>Unit Description                                     |
|-------------|-------------------|-----------|------------------------------------------|------------------------------------------|------------------------------|-----------------------------------------------------------------------------------|
| GRPBAPPPRD  | 63FFFF-PRD        | EU        |                                          |                                          |                              | 40 CFR Part 63 Subpart FFFF §<br>63.2450(t) applies to pressure relief<br>devices |

**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 1)**

**Federal Operating Permit Program**

**Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)**

**Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Horsepower Rating | RACT Date Placed in Service | Functionally Identical Replacement | Type of Service | Fuel Fired | Engine Type | ESAD Date Placed in Service | Diesel HP Rating |
|-------------|-------------------|-------------------|-----------------------------|------------------------------------|-----------------|------------|-------------|-----------------------------|------------------|
| BAPPEGEN1   | R7300             |                   |                             |                                    | EMERG           | DSL        |             |                             |                  |
| CABGEN      | R7300             |                   |                             |                                    | EMERG           | DSL        |             |                             |                  |
| CT17EP1     | R7300             |                   |                             |                                    | ENG             | NG         | RICHBURN    |                             |                  |
| CT17EP9     | R7300             |                   |                             |                                    | ENG             | NG         | RICHBURN    |                             |                  |
| CT70EP6     | R7300             |                   |                             |                                    | ENG             | NG         | RICHBURN    |                             |                  |
| EN01RES     | R7300             |                   |                             |                                    | EMERG           | DSL        |             | -01                         | 600-750          |
| P3607EN     | R7303             |                   |                             |                                    | D2001+          |            |             |                             |                  |
|             |                   |                   |                             |                                    |                 |            |             |                             |                  |
|             |                   |                   |                             |                                    |                 |            |             |                             |                  |
|             |                   |                   |                             |                                    |                 |            |             |                             |                  |

**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 2)**

**Federal Operating Permit Program**

**Table 1b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)**

**Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | NO <sub>x</sub> Emission Limitation | 23-C Option | 30 TAC Chapter 116 Limit | EGF System CAP Unit | NO <sub>x</sub> Averaging Method | NO <sub>x</sub> Reduction | NO <sub>x</sub> Monitoring System |
|-------------|-------------------|-------------------------------------|-------------|--------------------------|---------------------|----------------------------------|---------------------------|-----------------------------------|
| CT17EP1     | R7300             | 310D                                |             |                          | NO                  | 1HR                              | NSCR                      | MERT                              |
| CT17EP9     | R7300             | 310D                                |             |                          | NO                  | 1HR                              | NSCR                      | MERT                              |
| CT70EP6     | R7300             | 310D                                |             |                          | NO                  | 1HR                              | NSCR                      | MERT                              |
| EN01RES     | R7300             | 310D                                |             |                          | NO                  | 1HR                              | NONE                      | MERT                              |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |
|             |                   |                                     |             |                          |                     |                                  |                           |                                   |

**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 3)**

**Federal Operating Permit Program**

**Table 1c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)**

**Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Fuel Flow Monitoring | CO Emission Limitation | CO Averaging Method | CO Monitoring System | NH <sub>3</sub> Emission Limitation | NH <sub>3</sub> Monitoring |
|-------------|-------------------|----------------------|------------------------|---------------------|----------------------|-------------------------------------|----------------------------|
| CT17EP1     | R7300             | X40A                 | 310CG                  | 1HR                 | OTHER                |                                     |                            |
| CT17EP9     | R7300             | X40A                 | 310CG                  | 1HR                 | OTHER                |                                     |                            |
| CT70EP6     | R7300             | X40A                 | 310CG                  | 1HR                 | OTHER                |                                     |                            |
| EN01RES     | R7300             | X40A2-C              | 310CG                  | 1HR                 | OTHER                |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |
|             |                   |                      |                        |                     |                      |                                     |                            |

**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 4)**

**Federal Operating Permit Program**

**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | HAP Source | Brake HP | Construction/<br>Reconstruction<br>Date | Nonindustrial<br>Emergency<br>Engine | Service Type | Stationary RICE<br>Type |
|-------------|-------------------|------------|----------|-----------------------------------------|--------------------------------------|--------------|-------------------------|
| BAPPEGEN1   | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | EMER-A       |                         |
| CABGEN      | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | EMER-A       |                         |
| CT17EP1     | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | NORMAL       | 4SRB                    |
| CT17EP9     | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | NORMAL       | 4SRB                    |
| CT70EP6     | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | NORMAL       | 4SRB                    |
| EN01RES     | 63ZZZZ            | MAJOR      | 500+     | 02-                                     |                                      | EMER-A       |                         |
| P3607EN     | 63ZZZZ            | MAJOR      | 500+     | 06+                                     |                                      | EMER-A       |                         |
|             |                   |            |          |                                         |                                      |              |                         |
|             |                   |            |          |                                         |                                      |              |                         |
|             |                   |            |          |                                         |                                      |              |                         |

**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 5)**

**Federal Operating Permit Program**

**Table 2b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Manufacture Date | Operating Hours | Different Schedule | Emission Limitation | Displacement |
|-------------|-------------------|------------------|-----------------|--------------------|---------------------|--------------|
| CT17EP1     | 63ZZZZ            |                  |                 | NO                 | 76+                 |              |
| CT17EP9     | 63ZZZZ            |                  |                 | NO                 | 76+                 |              |
| CT70EP6     | 63ZZZZ            |                  |                 | NO                 | 76+                 |              |
|             |                   |                  |                 |                    |                     |              |
|             |                   |                  |                 |                    |                     |              |
|             |                   |                  |                 |                    |                     |              |
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**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 6)**

**Federal Operating Permit Program**

**Table 2c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary 32B Reciprocating Internal Combustion Engines  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Crankcase | Performance Test | Control Technique | Operating Limits | Monitoring System |
|-------------|-------------------|-----------|------------------|-------------------|------------------|-------------------|
| CT17EP1     | 63ZZZZ            |           | YES              | NSCR              |                  | CPMS              |
| CT17EP9     | 63ZZZZ            |           | YES              | NSCR              |                  | CPMS              |
| CT70EP6     | 63ZZZZ            |           | YES              | NSCR              |                  | CPMS              |
|             |                   |           |                  |                   |                  |                   |
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**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 8)**

**Federal Operating Permit Program**

**Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP<br>Index No. | Construction/<br>Reconstruction/<br>Modification Date | Test Cell | Exemption | Temp<br>Replacement | Horsepower | Fuel | AEL<br>No. | Lean<br>Burn | Commencing |
|-------------|----------------------|-------------------------------------------------------|-----------|-----------|---------------------|------------|------|------------|--------------|------------|
| CT17EP1     | 60JJJJ               | NO                                                    |           |           |                     |            |      |            |              |            |
| CT17EP9     | 60JJJJ               | NO                                                    |           |           |                     |            |      |            |              |            |
| CT70EP6     | 60JJJJ               | NO                                                    |           |           |                     |            |      |            |              |            |
|             |                      |                                                       |           |           |                     |            |      |            |              |            |
|             |                      |                                                       |           |           |                     |            |      |            |              |            |
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**Stationary Reciprocating Internal Combustion Engine Attributes**  
**Form OP-UA2 (Page 10)**  
**Federal Operating Permit Program**  
**Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Applicability Date | Exemptions | Service | Commencing | Manufacture Date |
|-------------|-------------------|--------------------|------------|---------|------------|------------------|
| P3607EN     | 60IIII            | 2005+              | NONE       | FIRE    | CON        | 0706+            |
|             |                   |                    |            |         |            |                  |
|             |                   |                    |            |         |            |                  |
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**Stationary Reciprocating Internal Combustion Engine Attributes  
Form OP-UA2 (Page 11)**

**Federal Operating Permit Program**

**Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Diesel | AES No. | Displacement | Generator Set | Model Year | Install Date |
|-------------|-------------------|--------|---------|--------------|---------------|------------|--------------|
| P3607EN     | 60IIII            | DIESEL |         | 15-20        |               | 2017+      |              |
|             |                   |        |         |              |               |            |              |
|             |                   |        |         |              |               |            |              |
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**Stationary Reciprocating Internal Combustion Engine Attributes**  
**Form OP-UA2 (Page 12)**  
**Federal Operating Permit Program**  
**Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart III: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Kilowatts | Filter | AECD | Standard | Compliance Option | PM Compliance | Options |
|-------------|-------------------|-----------|--------|------|----------|-------------------|---------------|---------|
| P3607EN     | 60III             | F368-450  |        |      | NO       | MANU YES          |               |         |
|             |                   |           |        |      |          |                   |               |         |
|             |                   |           |        |      |          |                   |               |         |
|             |                   |           |        |      |          |                   |               |         |
|             |                   |           |        |      |          |                   |               |         |
|             |                   |           |        |      |          |                   |               |         |
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**Storage Tank/Vessel Attributes  
Form OP-UA3 (Page 2)  
Federal Operating Permit Program  
Table 2: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart Ka: Standards of Performance for Storage Vessels for Petroleum Liquids  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Product Stored | Storage Capacity | True Vapor Pressure | Storage Vessel Description | AMEL ID No. | Reid Vapor Pressure | Maximum TVP | Estimated TVP | Control Device ID No. |
|-------------|-------------------|----------------|------------------|---------------------|----------------------------|-------------|---------------------|-------------|---------------|-----------------------|
| TK3056      | 60Ka              | OTHER2         |                  |                     |                            |             |                     |             |               |                       |
| TK4013      | 60KA              | OTHER2         |                  |                     |                            |             |                     |             |               |                       |
| TK4015      | 60Ka              | OTHER2         |                  |                     |                            |             |                     |             |               |                       |
| TK4016      | 60Ka              | OTHER2         |                  |                     |                            |             |                     |             |               |                       |
| TK4017      | 60Ka              | OTHER2         |                  |                     |                            |             |                     |             |               |                       |
|             |                   |                |                  |                     |                            |             |                     |             |               |                       |
|             |                   |                |                  |                     |                            |             |                     |             |               |                       |
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**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 3)**  
**Federal Operating Permit Program**  
**Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels**  
**(Including Petroleum Liquid Storage Vessels)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Product Stored | Storage Capacity | WW Tank Control | Maximum TVP | Storage Vessel Description | AMEL ID No. | Guidepole | Reid Vapor Pressure | Control Device ID No. |
|-------------|-------------------|----------------|------------------|-----------------|-------------|----------------------------|-------------|-----------|---------------------|-----------------------|
| BTCPTOTE    | 60Kb              | VOL            | 10K-             |                 |             |                            |             |           |                     |                       |
| TK0117      | 60Kb              | VOL            | 10K-             |                 |             |                            |             |           |                     |                       |
| TK2000      | 60KB              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK2048      | 60KB              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK2081      | 60KB              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK2082      | 60KB              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK2083      | 60KB              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK2090      | 60KB              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK2091      | 60KB              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK3192      | 60Kb              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK3196      | 60Kb              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |

| Unit ID No.     | SOP/GOP Index No. | Product Stored | Storage Capacity | WW Tank Control | Maximum TVP | Storage Vessel Description | AMEL ID No. | Guidepole | Reid Vapor Pressure | Control Device ID No. |
|-----------------|-------------------|----------------|------------------|-----------------|-------------|----------------------------|-------------|-----------|---------------------|-----------------------|
| TK4013          | 60Kb              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK4015          | 60Kb              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK4016          | 60Kb              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK9008          | 60Kb              | VOL            | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           |                     |                       |
| TK9010          | 60Kb-01           | VOL            | 40K+             | IFR             |             | IFR-MT                     |             | SLEAVE    |                     |                       |
| TK9012          | 60Kb              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK9016          | 60Kb              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| TK9018          | 60Kb              | VOL            | 40K+             |                 | 0.5-        |                            |             |           |                     |                       |
| <b>TK9020</b>   | <b>60Kb</b>       | <b>VOL</b>     | <b>40K+</b>      |                 | <b>0.5-</b> |                            |             |           |                     |                       |
| <b>TK9026</b>   | <b>60Kb</b>       | <b>VOL</b>     | <b>40K+</b>      |                 | <b>0.5-</b> |                            |             |           |                     |                       |
| <b>TKDIESL1</b> | <b>60Kb</b>       | <b>VOL</b>     | <b>10K-</b>      |                 |             |                            |             |           |                     |                       |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 4)**  
**Federal Operating Permit Program**  
**Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| BTCPTOTE    | R5112-09          | NO                            |            | VOC1           | A1K-             |            |                   |                        |
| TK0015      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0016A     | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0019      | 5112-05           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0021      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0024      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0030      | 5112-05           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0063      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0064      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0065      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0068      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0070      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0077      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |



| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK0095      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0097      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0098      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0102      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0110      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0112      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0113      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0117      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0205      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0208      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0304      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0305      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0352      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0450A     | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0628      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0662      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0668      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0670      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0671      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0701      | 5112-06           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK0709      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK0710      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0711      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0712      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0713      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0714      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0718      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0810      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0816      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK0890      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK1011      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK1123      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK1124      | R5112-03          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2000      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2048      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2081      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2082      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2083      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2090      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK2091      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK3000      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3001      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3011      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3013      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3014      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3021      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3022      | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3052      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3053      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3055      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3056      | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3056      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3100      | 5112-08           | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| TK3107      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3109      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3110      | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3192      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK3196      | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4010      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4011      | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |

| Unit ID No.      | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|------------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| TK4012           | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4013           | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4014           | R5112-04          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4015           | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4016           | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4017           | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK4024           | 5112-07           | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9008           | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9010           | R5112             | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9010           | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9012           | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9016           | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9018           | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9020           | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9026           | R5112-05          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| TK9620           | R5112-10          | NO                            |            | VOC1           | A40K+            |            |                   |                        |
| <b>TKDIESEL1</b> | <b>R5112-09</b>   | <b>NO</b>                     |            | <b>VOC1</b>    | <b>A1K-</b>      |            |                   |                        |
| VE01GAR          | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |
| VE02GAR          | R5112             | NO                            |            | VOC1           | A1K-25K          |            |                   |                        |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 5)**  
**Federal Operating Permit Program**  
**Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK0015      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0016A     | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0019      | 5112-05           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0021      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0024      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0030      | 5112-05           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0063      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0064      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0065      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK0068      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK0070      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0077      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0095      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK0097      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0098      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0102      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0110      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0112      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0113      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0117      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0205      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0208      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0304      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0305      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0352      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0450A     | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0628      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0662      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0668      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0670      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0671      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0701      | 5112-06           |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0709      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK0710      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0711      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0712      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0713      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0714      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK0718      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK0810      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0816      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK0890      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK1011      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK1123      | R5112-03          |                   | EFR1             | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK1124      | R5112-03          |                   | WDEF1            | 1.5+A               | MSHOE        | NCE            |                     |                       |
| TK2000      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK2048      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK2081      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2082      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2083      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2090      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK2091      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3000      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |

| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK3001      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3011      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3013      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3014      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3021      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3022      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3052      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3053      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3055      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3056      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK3056      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3100      | 5112-08           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK3107      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3109      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3110      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3192      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK3196      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4010      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK4011      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK4012      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |



| Unit ID No. | SOP/GOP Index No. | Construction Date | Tank Description | True Vapor Pressure | Primary Seal | Secondary Seal | Control Device Type | Control Device ID No. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| TK4013      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4014      | R5112-04          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4015      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK4016      | R5112             |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK4017      | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK4024      | 5112-07           |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK9008      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK9010      | R5112             |                   | NONE1            | 1-1.5               |              |                |                     |                       |
| TK9010      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| TK9012      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9016      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9018      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9020      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9026      | R5112-05          |                   | NONE1            | 1-                  |              |                |                     |                       |
| TK9620      | R5112-10          |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| VE01GAR     | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |
| VE02GAR     | R5112             |                   | NONE1            | 1-                  |              |                |                     |                       |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 7)**  
**Federal Operating Permit Program**  
**Table 6: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart Y: National Emission Standards for Benzene Emissions from Benzene Storage Vessels**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Tank Type | Storage Capacity | Stringency | Alternate Means of Emission Limitation | AMEL ID No. | Tank Description | Control Device Type | Control Device ID No. |
|-------------|---------------|-----------|------------------|------------|----------------------------------------|-------------|------------------|---------------------|-----------------------|
| TK0810      | 61Y           | BENZ      | 10K+             | NO         |                                        |             |                  |                     |                       |
| TK0816      | 61Y           | BENZ      | 10K+             | NO         |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |
|             |               |           |                  |            |                                        |             |                  |                     |                       |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 13)**

**Federal Operating Permit Program**

**Table 9a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing**

**Industry for Storage Vessels**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | MACT Subpart F/G Applicability | NESHAP Subpart Y Applicability | NSPS Subpart Kb Applicability | Maximum TVP | Emission Control Type | AMOC ID No. |
|-------------|---------------|--------------------------------|--------------------------------|-------------------------------|-------------|-----------------------|-------------|
| TK0063      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0064      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0065      | 63G           | YES                            | NO                             |                               | 11.11-      | IFR                   |             |
| TK0068      | 63G           | YES                            | NO                             |                               | 11.11-      | IFR                   |             |
| TK0070      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0077      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0110      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0112      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0205      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0304      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0305      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0352      | 63G           | YES                            | NO                             |                               | 11.11-      | EFR                   |             |

| Unit ID No. | SOP Index No. | MACT Subpart F/G Applicability | NESHAP Subpart Y Applicability | NSPS Subpart Kb Applicability | Maximum TVP | Emission Control Type | AMOC ID No. |
|-------------|---------------|--------------------------------|--------------------------------|-------------------------------|-------------|-----------------------|-------------|
| TK0710      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0718      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK0810      | 63G           | YES                            | NO                             |                               | 11.11-      | EFR                   |             |
| TK0816      | 63G           | YES                            | NO                             |                               | 11.11-      | EFR                   |             |
| TK1123      | 63G           | YES                            | NO                             |                               | 11.11-      | EFR                   |             |
| TK1124      | 63G           | YES                            | NO                             |                               | 11.11-      | EFR                   |             |
| TK3014      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK3052      | 63G           | YES                            | NO                             |                               | 11.11-      | IFR                   |             |
| TK3053      | 63G           | YES                            | NO                             |                               | 11.11-      | IFR                   |             |
| TK3055      | 63G           | NO                             | NO                             | NO                            |             |                       |             |
| TK3056      | 63G-1         | NO                             | NO                             | NO                            |             |                       |             |
| TK3056      | 63G-2         | YES                            | NO                             |                               | 11.11-      | IFR                   |             |
| TK3109      | 63G           | YES                            | NO                             |                               | 11.11-      | IFR                   |             |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 14)**

**Federal Operating Permit Program**

**Table 9b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing**

**Industry for Storage Vessels**

**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>Seal Type</b> | <b>Closed Vent System</b> | <b>Hard Piping</b> | <b>Bypass Lines</b> | <b>Control Device Type</b> | <b>Control Device ID No.</b> | <b>Control Device Design</b> | <b>Design Evaluation Submitted</b> |
|--------------------|----------------------|------------------|---------------------------|--------------------|---------------------|----------------------------|------------------------------|------------------------------|------------------------------------|
| TK0063             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0064             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0065             | 63G                  | IFR-MET          |                           |                    |                     |                            |                              |                              |                                    |
| TK0068             | 63G                  | IFR-MET          |                           |                    |                     |                            |                              |                              |                                    |
| TK0070             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0077             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0110             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0112             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0205             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0304             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |
| TK0305             | 63G                  |                  |                           |                    |                     |                            |                              |                              |                                    |

| Unit ID No. | SOP Index No. | Seal Type | Closed Vent System | Hard Piping | Bypass Lines | Control Device Type | Control Device ID No. | Control Device Design | Design Evaluation Submitted |
|-------------|---------------|-----------|--------------------|-------------|--------------|---------------------|-----------------------|-----------------------|-----------------------------|
| TK0352      | 63G           | 2MET      |                    |             |              |                     |                       |                       |                             |
| TK0718      | 63G           |           |                    |             |              |                     |                       |                       |                             |
| TK0810      | 63G           | 2MET      |                    |             |              |                     |                       |                       |                             |
| TK0816      | 63G           | 2MET      |                    |             |              |                     |                       |                       |                             |
| TK1123      | 63G           | 2MET      |                    |             |              |                     |                       |                       |                             |
| TK1124      | 63G           | 2MET      |                    |             |              |                     |                       |                       |                             |
| TK3014      | 63G           |           |                    |             |              |                     |                       |                       |                             |
| TK3052      | 63G           | 2SEALS    |                    |             |              |                     |                       |                       |                             |
| TK3053      | 63G           | IFR-MET   |                    |             |              |                     |                       |                       |                             |
| TK3055      | 63G           |           |                    |             |              |                     |                       |                       |                             |
| TK3056      | 63G-2         | 2SEALS    |                    |             |              |                     |                       |                       |                             |
| TK3109      | 63G           | IFR-MET   |                    |             |              |                     |                       |                       |                             |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 21)**  
**Federal Operating Permit Program**  
**Table 12a: Title 40 Code of Federal Regulations Part 61, (40 CFR Part 61)**  
**Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Waste Treatment Tank | Alternative Standards for Tanks | Kb Tank Type | AMEL ID No. | Seal Type | Alternate Means of Compliance | AMOC ID No. |
|-------------|---------------|----------------------|---------------------------------|--------------|-------------|-----------|-------------------------------|-------------|
| BPBD115     | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| BPBD116     | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| BPBD306     | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| BPBD315     | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| D-2015      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| D-2071      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| TK0110      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| TK0112      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| TK0304      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |
| TK0305      | 61FF          | YES                  | NO                              |              |             |           | NO                            |             |

| Unit ID No. | SOP Index No. | Waste Treatment Tank | Alternative Standards for Tanks | Kb Tank Type | AMEL ID No. | Seal Type | Alternate Means of Compliance | AMOC ID No. |
|-------------|---------------|----------------------|---------------------------------|--------------|-------------|-----------|-------------------------------|-------------|
| TK2000      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2048      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2081      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2082      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2083      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2090      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK2091      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK4013      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK4016      | 61FF          | NO                   |                                 |              |             |           |                               |             |
| TK4017      | 61FF          | NO                   |                                 |              |             |           |                               |             |



**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 22)**  
**Federal Operating Permit Program**  
**Table 12b: Title 40 Code of Federal Regulations Part 61, (40 CFR Part 61)**  
**Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Tank Control Requirements | Fuel Gas System | Closed Vent System And Control Device | Cover and Closed Vent | Closed Vent System And Control Device AMOC | CVS/CD AMOC ID No. |
|-------------|---------------|---------------------------|-----------------|---------------------------------------|-----------------------|--------------------------------------------|--------------------|
| BPBD115     | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| BPBD116     | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| BPBD306     | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| BPBD315     | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| D-2015      | 61FF          | CVS-CD                    | NO              |                                       | NO                    | NO                                         |                    |
| D-2071      | 61FF          | CVS-CD                    | NO              |                                       | NO                    | NO                                         |                    |
| TK0110      | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| TK0112      | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| TK0304      | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |
| TK0305      | 61FF          | CVS-CD                    | NO              | YES                                   | NO                    | NO                                         |                    |

**Storage Tank/Vessel Attributes**  
**Form OP-UA3 (Page 23)**  
**Federal Operating Permit Program**  
**Table 12c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart FF: National Emission Standards for Benzene Waste Operations (Tanks)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Bypass Line | Bypass Line Valve | Control Device Type/Operation | Control Device ID No. | Engineering Calculations | Alternate Monitoring Parameters | Carbon Replacement Interval |
|-------------|---------------|-------------|-------------------|-------------------------------|-----------------------|--------------------------|---------------------------------|-----------------------------|
| BPBD115     | 61FF          | YES         | YES               | FLARE                         | FS12                  |                          |                                 |                             |
| BPBD116     | 61FF          | YES         | YES               | FLARE                         | FS12                  |                          |                                 |                             |
| BPBD306     | 61FF          | YES         | YES               | FLARE                         | FS12                  |                          |                                 |                             |
| BPBD315     | 61FF          | YES         | YES               | FLARE                         | FS12                  |                          |                                 |                             |
| D-2015      | 61FF          | NO          |                   | FLARE                         | FS9, FS23, FS24       |                          |                                 |                             |
| D-2071      | 61FF          | NO          |                   | FLARE                         | FS9, FS23, FS24       |                          |                                 |                             |
| TK0110      | 61FF          | YES         | YES               | CARADS                        | CAS                   | YES                      |                                 | YES                         |
| TK0112      | 61FF          | YES         | YES               | CARADS                        | CAS                   | YES                      |                                 | YES                         |
| TK0304      | 61FF          | YES         | YES               | CARADS                        | CAS                   | YES                      |                                 | YES                         |
| TK0305      | 61FF          | YES         | YES               | CARADS                        | CAS                   | YES                      |                                 | YES                         |

**Storage Tank/Vessel Attributes  
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**Federal Operating Permit Program**

**Table 17a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins, Storage Vessels  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Vessel Type | Group 1 Vessel | Maximum TVP | Emission Control Type | AMOC ID No. | Seal Type |
|-------------|---------------|-------------|----------------|-------------|-----------------------|-------------|-----------|
| TK0550A     | 63U-1         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
| TK0550A     | 63U-2         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
| TK0550B     | 63U-1         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
| TK0550B     | 63U-2         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
| TK0560      | 63U-1         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
| TK0560      | 63U-2         | STOR        | YES            | 11.11-      | CVS-CD                |             |           |
|             |               |             |                |             |                       |             |           |
|             |               |             |                |             |                       |             |           |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 37)**

**Federal Operating Permit Program**

**Table 17b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins, Storage Vessels  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Closed Vent System | Hard Piping | Bypass Lines | Control Device Type | Control Device ID No. | Control Device Design | Design Evaluation Submitted |
|-------------|---------------|--------------------|-------------|--------------|---------------------|-----------------------|-----------------------|-----------------------------|
| TK0550A     | 63U-1         | SUBPTG             | YES         | CARSEAL      | COND                | CASRHB                | NO                    | YES                         |
| TK0550A     | 63U-2         | SUBPTG             | YES         | CARSEAL      | CADS                | CASRHB2               | NO                    | YES                         |
| TK0550B     | 63U-1         | SUBPTG             | YES         | CARSEAL      | COND                | CASRHB                | NO                    | YES                         |
| TK0550B     | 63U-2         | SUBPTG             | YES         | CARSEAL      | CADS                | CASRHB2               | NO                    | YES                         |
| TK0560      | 63U-1         | SUBPTG             | YES         | CARSEAL      | COND                | CASRHB                | NO                    | YES                         |
| TK0560      | 63U-2         | SUBPTG             | YES         | CARSEAL      | CADS                | CASRHB2               | NO                    | YES                         |
|             |               |                    |             |              |                     |                       |                       |                             |
|             |               |                    |             |              |                     |                       |                       |                             |
|             |               |                    |             |              |                     |                       |                       |                             |
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**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 51)**

**Federal Operating Permit Program**

**Table 21a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Emission Standard | Comb Device | 95% Scrubber | PERF Test | Negative Pressure | Bypass Line |
|-------------|---------------|-------------------|-------------|--------------|-----------|-------------------|-------------|
| BPUD211     | 63FFFF        | 76+FLR            |             |              |           |                   |             |
| D-2035      | 63FFFF-SV     | 76-FLR            |             |              |           |                   |             |
| D-2040      | 63FFFF-SV     | 76-FLR            |             |              |           |                   |             |
| PPD3098     | 63FFFF        | ALT2505           | NO          |              | YES       | NO                | NONE        |
| PPD3099     | 63FFFF        | ALT2505           | NO          |              | YES       | NO                | NONE        |
| PPD5460     | 63FFFF        | ALT2505           | NO          |              | YES       | NO                | NONE        |
| TK2048      | 63FFFF        | 63WW              |             |              |           |                   |             |
| TK3192      | 63FFFF        | 63WW              |             |              |           |                   |             |
| TK3196      | 63FFFF        | 63WW              |             |              |           |                   |             |
|             |               |                   |             |              |           |                   |             |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 52)**

**Federal Operating Permit Program**

**Table 21b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Barge | Offsite | Other Part 63 |
|-------------|---------------|-------|---------|---------------|
| TK3196      | 63FFFF        |       |         |               |
|             |               |       |         |               |
|             |               |       |         |               |
|             |               |       |         |               |
|             |               |       |         |               |
|             |               |       |         |               |
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|             |               |       |         |               |

**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 53)**

**Federal Operating Permit Program**

**Table 21c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels**  
**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>Designated HAL</b> | <b>Determined HAL</b> | <b>Prior Eval</b> | <b>Assessment Waiver</b> | <b>Negative Pressure</b> | <b>Bypass Line</b> |
|--------------------|----------------------|-----------------------|-----------------------|-------------------|--------------------------|--------------------------|--------------------|
| BPUD211            | 63FFFF               | NO                    | NO                    | NO                | NO                       | NO                       | NONE               |
| D-2035             | 63FFFF-SV            | NO                    | NO                    | NO                | NO                       | NO                       | NONE               |
| D-2040             | 63FFFF-SV            | NO                    | NO                    | NO                | NO                       | NO                       | NONE               |
| TK3196             | 63FFFF               |                       |                       |                   |                          |                          |                    |
|                    |                      |                       |                       |                   |                          |                          |                    |
|                    |                      |                       |                       |                   |                          |                          |                    |
|                    |                      |                       |                       |                   |                          |                          |                    |
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Storage Tank/Vessel Attributes

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Federal Operating Permit Program

Table 21d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels  
Texas Commission on Environmental Quality

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | WW Tank Control | Unslotted Guidepole | Slotted Guidepole | Seal Configuration | Inspection Requirement |
|-------------|---------------|-----------------|---------------------|-------------------|--------------------|------------------------|
| TK2048      | 63FFFF        | IFR             | YES                 |                   | IFR-MT             |                        |
| TK3192      | 63FFFF        | IFR             | NO                  | SLEEVE            | IFR-MT             |                        |
| TK3196      | 63FFFF        | IFR             | NO                  |                   | IFR-MT             |                        |
|             |               |                 |                     |                   |                    |                        |
|             |               |                 |                     |                   |                    |                        |
|             |               |                 |                     |                   |                    |                        |
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Storage Tank/Vessel Attributes

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Federal Operating Permit Program

Table 21e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels  
Texas Commission on Environmental Quality

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Alt 63SS Mon Parameters | CEMS | SS Device Type | Meets 63.988(b)(2) | Water | Designated HAL |
|-------------|---------------|-------------------------|------|----------------|--------------------|-------|----------------|
| TK3196      | 63FFFF        |                         |      |                |                    |       |                |
|             |               |                         |      |                |                    |       |                |
|             |               |                         |      |                |                    |       |                |
|             |               |                         |      |                |                    |       |                |
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**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 56)**

**Federal Operating Permit Program**

**Table 21f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Storage Vessels**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Determined HAL | HAL Device Type | Prior Test | Test Waiver | Formaldehyde | Negative Pressure | Bypass Line |
|-------------|---------------|----------------|-----------------|------------|-------------|--------------|-------------------|-------------|
| TK3196      | 63FFFF        |                |                 |            |             |              |                   |             |
|             |               |                |                 |            |             |              |                   |             |
|             |               |                |                 |            |             |              |                   |             |
|             |               |                |                 |            |             |              |                   |             |
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**Storage Tank/Vessel Attributes**

**Form OP-UA3 (Page 57)**

**Federal Operating Permit Program**

**Table 22a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Wastewater  
Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>Process Wastewater</b> | <b>Meets 40 CFR<br/>§ 63.149(d)</b> | <b>Sparged</b> | <b>Emission Routing</b> | <b>Installed Before<br/>12/31/92</b> |
|--------------------|----------------------|---------------------------|-------------------------------------|----------------|-------------------------|--------------------------------------|
| D-2055             | 63FFFF-WW2           | YES                       | NO                                  | NO             | CVS/CD                  | NO                                   |
| D-2071             | 63FFFF-WW1           | YES                       | NO                                  | NO             | CVS/CD                  | NO                                   |
|                    |                      |                           |                                     |                |                         |                                      |
|                    |                      |                           |                                     |                |                         |                                      |
|                    |                      |                           |                                     |                |                         |                                      |
|                    |                      |                           |                                     |                |                         |                                      |
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**Storage Tank/Vessel Attributes**

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**Federal Operating Permit Program**

**Table 22b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Wastewater  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Closed Vent System | Bypass Lines | Control Device Type | Control Device ID No. | Design Evaluation Submitted | Halogenated | Halogen Reduction |
|-------------|---------------|--------------------|--------------|---------------------|-----------------------|-----------------------------|-------------|-------------------|
| D-2055      | 63FFFF-WW2    | SUBPTG             | NONE         | BPH-44-             | MPUF2074              |                             | NON         |                   |
| D-2071      | 63FFFF-WW1    | SUBPTG             | NONE         | FLARE               | FS09, FS23, FS24      |                             | NON         |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |
|             |               |                    |              |                     |                       |                             |             |                   |

Storage Tank/Vessel Attributes

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Federal Operating Permit Program

Table 22c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing, Wastewater  
Texas Commission on Environmental Quality

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Wastewater Tank Usage | Wastewater Tank Properties | Emission Control Type | EEL ID No. | Closed Vent System | Bypass Lines |
|-------------|---------------|-----------------------|----------------------------|-----------------------|------------|--------------------|--------------|
| D-2055      | 63FFFF-WW2    | NO                    | 75-                        |                       |            |                    |              |
| D-2071      | 63FFFF-WW1    | NO                    | 75-                        |                       |            |                    |              |
|             |               |                       |                            |                       |            |                    |              |
|             |               |                       |                            |                       |            |                    |              |
|             |               |                       |                            |                       |            |                    |              |
|             |               |                       |                            |                       |            |                    |              |
|             |               |                       |                            |                       |            |                    |              |
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|             |               |                       |                            |                       |            |                    |              |

**Loading/Unloading Operations Attributes**  
**Form OP-UA4 (Page 1)**  
**Federal Operating Permit Program**  
**Table 1a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter C: Loading and Unloading of Volatile Organic Compounds**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Chapter 115 Facility Type | Alternate Control Requirement (ACR) | ACR ID No. | Product Transferred | Transfer Type | True Vapor Pressure | Daily Through-put | Control Options |
|-------------|-------------------|---------------------------|-------------------------------------|------------|---------------------|---------------|---------------------|-------------------|-----------------|
| BPBUNLOAD   | R5211-3           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5-                |                   |                 |
| BPBUNLOAD   | R5212-4           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | CON             |
| BPBUNLOAD   | R5212-5           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | CON             |
| BPBUNLOAD   | R5212-6           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | BAL             |
| BPBUNLOAD   | R5212-7           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | PLS             |
| D4022-1     | R5211             | OTHER                     | NONE                                |            | VOC1                | LOAD          | 0.5+                | NCE2              | CON             |
| LR27        | 15.211-01         | OTHER                     |                                     |            | VOC1                | BOTH          | 0.5-                |                   |                 |
| LR27        | 15.211-02         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | PLS             |
| LR27        | 15.211-03         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | BAL             |
| LR27        | 15.211-04         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | CON             |

| Unit ID No. | SOP/GOP Index No. | Chapter 115 Facility Type | Alternate Control Requirement (ACR) | ACR ID No. | Product Transferred | Transfer Type | True Vapor Pressure | Daily Through-put | Control Options |
|-------------|-------------------|---------------------------|-------------------------------------|------------|---------------------|---------------|---------------------|-------------------|-----------------|
| LR28        | 15.211-01         | OTHER                     |                                     |            | VOC1                | BOTH          | 0.5-                |                   |                 |
| LR28        | 15.211-02         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | PLS             |
| LR28        | 15.211-03         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | BAL             |
| LR28        | 15.211-04         | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | CON             |
| NWCLOAD     | R5212-3           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5-                |                   |                 |
| NWCLOAD     | R5212-4           | OTHER                     | NONE                                |            | VOC1                | LOAD          | 0.5+                | NCE2              | CON             |
| NWCLOAD     | R5212-5           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | CON             |
| NWCLOAD     | R5212-6           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | BAL             |
| NWCLOAD     | R5212-7           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | PLS             |
| PPLDCOM     | R5212-3           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5-                |                   |                 |
| PPLDCOM     | R5212-4           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | CON             |
| PPLDCOM     | R5212-5           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | CON             |
| PPLDCOM     | R5212-6           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | BAL             |
| PPLDCOM     | R5212-7           | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | NCE2              | PLS             |
| RHBD306LD   | 115.212-01        | OTHER                     | NONE                                |            | VOC1                | BOTH          | 0.5+                | 20K+              | CON             |
| SPUD3624LD  | R5121-8           | OTHER                     | NONE                                |            | VOC1                | LOAD          | 0.5+                | 20K+              | BAL             |
| UNLOAD-1    | R5212-1           | OTHER                     | NONE                                |            | VOC1                | UNLOAD        | 0.5-                |                   |                 |
| UNLOAD-2    | R5212-2           | OTHER                     | NONE                                |            | VOC1                | UNLOAD        | 0.5+                | NCE2              |                 |

**Loading/Unloading Operations Attributes**  
**Form OP-UA4 (Page 2)**  
**Federal Operating Permit Program**  
**Table 1b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter C: Loading and Unloading of Volatile Organic Compounds**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Chapter 115<br>Control Device<br>Type | Chapter 115<br>Control Device<br>ID No. | Vapor-Tight | Vapor Space<br>Holding Tank | Marine Terminal<br>Exemptions | VOC Flash Point | Uncontrolled<br>VOC Emissions |
|-------------|---------------|---------------------------------------|-----------------------------------------|-------------|-----------------------------|-------------------------------|-----------------|-------------------------------|
| BPBUNLOAD   | R5212-4       | CRBADS                                | CRBADS                                  | YES         |                             |                               |                 |                               |
| BPBUNLOAD   | R5212-5       | FLARE                                 | FS12                                    | YES         |                             |                               |                 |                               |
| BPBUNLOAD   | R5212-6       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| BPBUNLOAD   | R5212-7       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| D4022-1     | R5211         | FLARE                                 | FS9, FS23,<br>FS24                      | YES         |                             |                               |                 |                               |
| LR27        | 15.211-01     |                                       |                                         |             |                             |                               |                 |                               |
| LR27        | 15.211-02     | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| LR27        | 15.211-03     | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| LR27        | 15.211-04     | FLARE                                 | FS 9, 23, 24                            | YES         |                             |                               |                 |                               |
| LR28        | 15.211-01     |                                       |                                         |             |                             |                               |                 |                               |



| Unit ID No. | SOP Index No. | Chapter 115<br>Control Device<br>Type | Chapter 115<br>Control Device<br>ID No. | Vapor-Tight | Vapor Space<br>Holding Tank | Marine Terminal<br>Exemptions | VOC Flash Point | Uncontrolled<br>VOC Emissions |
|-------------|---------------|---------------------------------------|-----------------------------------------|-------------|-----------------------------|-------------------------------|-----------------|-------------------------------|
| LR28        | 15.211-02     | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| LR28        | 15.211-03     | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| LR28        | 15.211-04     | FLARE                                 | FS 9, 23, 24                            | YES         |                             |                               |                 |                               |
| NWCLOAD     | R5212-4       | CRBADS                                | CRBADS                                  | YES         |                             |                               |                 |                               |
| NWCLOAD     | R5212-5       | FLARE                                 | FS09, FS23, FS24                        | YES         |                             |                               |                 |                               |
| NWCLOAD     | R5212-6       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| NWCLOAD     | R5212-7       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| PPLDCOM     | R5212-4       | CRBADS                                | CRBADS                                  | YES         |                             |                               |                 |                               |
| PPLDCOM     | R5212-5       | FLARE                                 | FS09, FS23, FS24                        | YES         |                             |                               |                 |                               |
| PPLDCOM     | R5212-6       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| PPLDCOM     | R5212-7       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| RHBD306LD   | 115.212-01    | FLARE                                 | FS12                                    | YES         |                             |                               |                 |                               |
| SPUD3624LD  | R5121-8       | NONE                                  |                                         | YES         |                             |                               |                 |                               |
| UNLOAD-2    | R5212-2       |                                       |                                         | YES         |                             |                               |                 |                               |

**Loading/Unloading Operations Attributes**  
**Form OP-UA4 (Page 16)**  
**Federal Operating Permit Program**  
**Table 9a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Emission Standard | Designated HAL | Determined HAL | Prior Eval | Assessment Waiver | Negative Pressure | Bypass Line |
|-------------|---------------|-------------------|----------------|----------------|------------|-------------------|-------------------|-------------|
| D-4022      | 63FFFF-LD     | FLR               | NO             | NO             | NO         | NO                | YES               |             |
| LR27        | 63FFFF        | FLR               | NO             | NO             | YES        |                   | NO                | NONE        |
| LR28        | 63FFFF        | FLR               | NO             | NO             | YES        |                   | NO                | NONE        |
| PPD5460-1   | 63FFFF        | CD98              | NO             | NO             | NO         | NO                | NO                | NONE        |
|             |               |                   |                |                |            |                   |                   |             |
|             |               |                   |                |                |            |                   |                   |             |
|             |               |                   |                |                |            |                   |                   |             |
|             |               |                   |                |                |            |                   |                   |             |
|             |               |                   |                |                |            |                   |                   |             |
|             |               |                   |                |                |            |                   |                   |             |

**Loading/Unloading Operations Attributes**

**Form OP-UA4 (Page 17)**

**Federal Operating Permit Program**

**Table 9b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing**

**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.:</b> | <b>Regulated Entity No.</b> |
|-------------------|--------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>       | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>Small Device</b> | <b>1257A1</b> | <b>1257A1 Device Type</b> | <b>Alt 63SS Mon Parameters</b> | <b>CEMS</b> | <b>SS Device Type</b> |
|--------------------|----------------------|---------------------|---------------|---------------------------|--------------------------------|-------------|-----------------------|
| PPD5460            | 63FFFF               | NO                  |               |                           | NO                             | NO          | INCIN                 |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |
|                    |                      |                     |               |                           |                                |             |                       |

**Loading/Unloading Operations Attributes**  
**Form OP-UA4 (Page 18)**  
**Federal Operating Permit Program**  
**Table 9c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Meets 63.988(b)(2) | 44 Primary | Water | HAL Device Type | Formaldehyde |
|-------------|---------------|--------------------|------------|-------|-----------------|--------------|
| PPD5460-1   | 63FFFF        | NO                 |            |       |                 | NO           |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |
|             |               |                    |            |       |                 |              |

**Process Heater/Furnace Attributes**

**Form OP-UA5 (Page 1)**

**Federal Operating Permit Program**

**Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)**

**Subchapter B: Combustion Control at Major Industrial, Commercial, and**

**Institutional Sources in Ozone Nonattainment Areas, Process Heaters**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No.  | SOP/GOP Index No. | Unit Type | Maximum Rated Capacity | RACT Date Placed in Service | Functionally Identical Replacement | Fuel Type(s) |    |  | Annual Heat Input | NO <sub>x</sub> Emission Limitation | Opt-In Unit | 23C-Option |
|--------------|-------------------|-----------|------------------------|-----------------------------|------------------------------------|--------------|----|--|-------------------|-------------------------------------|-------------|------------|
| BHUF100A     | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                                |             |            |
| IBUF730A/B/C | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                                |             |            |
| LAUF3629A    | R7300             | PRHTR     | 200+                   |                             |                                    | NG           | GS |  | 22+               | 310D                                |             |            |
| LPUF101A     | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                                |             |            |
| LPUF102      | R7300             | PRHTR     | 200+                   |                             |                                    | NG           | GS |  | 22+               | 310D                                |             |            |
| LPUF102SH    | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                                |             |            |
| LPUF203      | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                                |             |            |
| MPUF2074     | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                                |             |            |
| NRUF1        | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                                |             |            |
| NRUF1A       | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                                |             |            |
| NRUF6        | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                                |             |            |
| NRUF9A       | R7300             | PRHTR     | 100-200                |                             |                                    | NG           | GS |  | 22+               | 310D                                |             |            |
| NRUF9B       | R7300             | PRHTR     | 100-200                |                             |                                    | NG           | GS |  | 22+               | 310D                                |             |            |

| Unit ID No. | SOP/GOP Index No. | Unit Type | Maximum Rated Capacity | RACT Date Placed in Service | Functionally Identical Replacement | Fuel Type(s) |    |  | Annual Heat Input | NOx Emission Limitation | Opt-In Unit | 23C-Option |
|-------------|-------------------|-----------|------------------------|-----------------------------|------------------------------------|--------------|----|--|-------------------|-------------------------|-------------|------------|
| NRUH2       | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  | 28+               | 310D                    |             |            |
| NRUH3       | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                    |             |            |
| PAUF311     | R7300             | PRHTR     | 100-200                |                             |                                    | NG           | GS |  | 22+               | 310D                    |             |            |
| PAUF321     | R7300             | PRHTR     | 100-200                |                             |                                    | NG           | GS |  | 22+               | 310D                    |             |            |
| PFUF501     | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                    |             |            |
| PFUF510     | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                    |             |            |
| PFUF530     | R7300             | PRHTR     | 40-100                 |                             |                                    | NG           | GS |  | 28+               | 310D                    |             |            |
| PTUF301     | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                    |             |            |
| SPUF3629B   | R7300             | PRHTR     | 200+                   |                             |                                    | NG           | GS |  | 22+               | 310D                    |             |            |
| TDUF501     | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                    |             |            |
| TDUF507     | R7300             | PRHTR     | 2-40                   |                             |                                    | NG           | GS |  |                   | 310D                    |             |            |

**Process Heater/Furnace Attributes  
Form OP-UA5 (Page 2)**

**Federal Operating Permit Program**

**Table 1b: Title 30 Texas Administrative Code Chapter 112 (30 TAC Chapter 117)  
Subchapter B: Combustion Control at Major Industrial, Commercial, and  
Institutional Sources in Ozone Nonattainment Areas, Process Heaters  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No.  | SOP/GOP Index No. | Diluent CEMS | 30 TAC Chapter 116 Limit | NOx Emission Limit Basis | NOx Reduction | Common Stack Combined | Fuel Type Heat Input | NOx Monitoring System |
|--------------|-------------------|--------------|--------------------------|--------------------------|---------------|-----------------------|----------------------|-----------------------|
| BHUF100A     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| IBUF730A/B/C | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| LAUF3629A    | R7300             | NO           |                          | BLK1-LB                  | POST1         |                       |                      | CEMS                  |
| LPUF101A     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| LPUF102      | R7300             | YES          |                          | OTHER                    | NONE          |                       |                      | CEMS                  |
| LPUF102SH    | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| LPUF203      | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| MPUF2074     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| NRUF1        | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| NRUF1A       | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |

| Unit ID No. | SOP/GOP Index No. | Diluent CEMS | 30 TAC Chapter 116 Limit | NOx Emission Limit Basis | NOx Reduction | Common Stack Combined | Fuel Type Heat Input | NOx Monitoring System |
|-------------|-------------------|--------------|--------------------------|--------------------------|---------------|-----------------------|----------------------|-----------------------|
| NRUF6       | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| NRUF9A      | R7300             | YES          |                          | OTHER                    | NONE          |                       |                      | CEMS                  |
| NRUF9B      | R7300             | YES          |                          | OTHER                    | NONE          |                       |                      | CEMS                  |
| NRUH2       | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| NRUH3       | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| PAUF311     | R7300             | YES          |                          | OTHER                    | NONE          |                       |                      | CEMS                  |
| PAUF321     | R7300             | YES          |                          | OTHER                    | NONE          |                       |                      | CEMS                  |
| PFUF501     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| PFUF510     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| PFUF530     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| PTUF301     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| SPUF3629B   | R7300             | NO           |                          | BLK1-LB                  | POST1         |                       |                      | CEMS                  |
| TDUF501     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |
| TDUF507     | R7300             | NO           |                          | OTHER                    | NONE          |                       |                      | MERT                  |



**Process Heater/Furnace Attributes  
Form OP-UA5 (Page 3)  
Federal Operating Permit Program**

**Table 1c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)  
Subchapter B: Combustion Control at Major Industrial, Commercial, and  
Institutional Sources in Ozone Nonattainment Areas, Process Heaters  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No.  | SOP/GOP Index No. | Fuel Flow Monitoring | CO Emission Limitation | CO Monitoring System | NH3 Emission Limitation | NH3 Monitoring |
|--------------|-------------------|----------------------|------------------------|----------------------|-------------------------|----------------|
| BHUF100A     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| IBUF730A/B/C | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| LAUF3629A    | R7300             | X40A                 | 310C                   | CEMS                 | 310C                    | CEMS           |
| LPUF101A     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| LPUF102      | R7300             | X40A2-A              | 310C                   | CEMS                 |                         |                |
| LPUF102SH    | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| LPUF203      | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| MPUF2074     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| NRUF1        | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| NRUF1A       | R7300             | X40A                 | 310C                   | OTHER                |                         |                |

| Unit ID No. | SOP/GOP Index No. | Fuel Flow Monitoring | CO Emission Limitation | CO Monitoring System | NH3 Emission Limitation | NH3 Monitoring |
|-------------|-------------------|----------------------|------------------------|----------------------|-------------------------|----------------|
| NRUF6       | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| NRUF9A      | R7300             | X40A2-A              | 310C                   | CEMS                 |                         |                |
| NRUF9B      | R7300             | X40A2-A              | 310C                   | CEMS                 |                         |                |
| NRUH2       | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| NRUH3       | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| PAUF311     | R7300             | X40A2-A              | 310C                   | CEMS                 |                         |                |
| PAUF321     | R7300             | X40A2-A              | 310C                   | CEMS                 |                         |                |
| PFUF501     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| PFUF510     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| PFUF530     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| PTUF301     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| SPUF3629B   | R7300             | X40A                 | 310C                   | CEMS                 | 310C                    | CEMS           |
| TDUF501     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |
| TDUF507     | R7300             | X40A                 | 310C                   | OTHER                |                         |                |

**Process Heater/Furnace Attributes  
Form OP-UA5 (Page 10)  
Federal Operating Permit Program  
Table 6a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subchapter DDDDD: Industrial, Commercial, and Institutional Process Heaters  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No.  | SOP/GOP Index No. | Commence | Table Applicability | HCl Emission | HCl-CMS |
|--------------|-------------------|----------|---------------------|--------------|---------|
| BHUF100A     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| BHUF100A     | 63DDDDDD-2        | EXIST    | T3.2G1              |              |         |
| IBUF730A/B/C | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| IBUF730A/B/C | 63DDDDDD-3        | EXIST    | T3.3G1              |              |         |
| LAUF3629A    | 63DDDDDD-1a       | NEW      | T3.1TS              |              |         |
| LAUF3629A    | 63DDDDDD-3a       | NEW      | T3.3G1              |              |         |
| LPUF101A     | 63DDDDDD-1a       | NEW      | T3.1TS              |              |         |
| LPUF101A     | 63DDDDDD-3a       | NEW      | T3.3G1              |              |         |
| LPUF102      | 63DDDDDD-1a       | NEW      | T3.1TS              |              |         |
| LPUF102      | 63DDDDDD-3a       | NEW      | T3.3G1              |              |         |

| Unit ID No. | SOP/GOP Index No. | Commence | Table Applicability | HCl Emission | HCl-CMS |
|-------------|-------------------|----------|---------------------|--------------|---------|
| NRUF1       | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUF1       | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUF1A      | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUF1A      | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUF6       | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUF6       | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUF9A      | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUF9A      | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUF9B      | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUF9B      | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUH2       | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUH2       | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| NRUH3       | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| NRUH3       | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| PAUF311     | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| PAUF311     | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| PAUF321     | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| PAUF321     | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |
| PFUF501     | 63DDDDD-1         | EXIST    | T3.1TS              |              |         |
| PFUF501     | 63DDDDD-3         | EXIST    | T3.3G1              |              |         |

| Unit ID No. | SOP/GOP Index No. | Commence | Table Applicability | HCl Emission | HCl-CMS |
|-------------|-------------------|----------|---------------------|--------------|---------|
| PFUF510     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| PFUF510     | 63DDDDDD-3        | EXIST    | T3.3G1              |              |         |
| PFUF530     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| PFUF530     | 63DDDDDD-3        | EXIST    | T3.3G1              |              |         |
| PTUF301     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| PTUF301     | 63DDDDDD-3        | EXIST    | T3.3G1              |              |         |
| SPUF3629B   | 63DDDDDD-1        | NEW      | T3.1TS              |              |         |
| SPUF3629B   | 63DDDDDD-3        | NEW      | T3.3G1              |              |         |
| TDUF501     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| TDUF501     | 63DDDDDD-3        | EXIST    | T3.3G1              |              |         |
| TDUF507     | 63DDDDDD-1        | EXIST    | T3.1TS              |              |         |
| TDUF507     | 63DDDDDD-2        | EXIST    | T3.2G1              |              |         |

**Process Heater/Furnace Attributes  
Form OP-UA5 (Page 11)  
Federal Operating Permit Program  
Table 6b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subchapter DDDDD: Industrial, Commercial, and Institutional Process Heaters  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No.  | SOP/GOP Index No. | HCl-CD | HCl-Test | HCl-FA | HCl-FloMon | HCl-pHMon |
|--------------|-------------------|--------|----------|--------|------------|-----------|
| IBUF730A/B/C | 63DDDDDD-3        |        |          |        |            |           |
| NRUF1        | 63DDDDDD-3        |        |          |        |            |           |
| NRUF6        | 63DDDDDD-3        |        |          |        |            |           |
| NRUF9A       | 63DDDDDD-1        |        |          |        |            |           |
| NRUF9B       | 63DDDDDD-1        |        |          |        |            |           |
| NRUH2        | 63DDDDDD-3        |        |          |        |            |           |
| NRUH3        | 63DDDDDD-3        |        |          |        |            |           |
| PAUF311      | 63DDDDDD-1        |        |          |        |            |           |
| PAUF321      | 63DDDDDD-1        |        |          |        |            |           |
| PFUF501      | 63DDDDDD-3        |        |          |        |            |           |

| Unit ID No. | SOP/GOP Index No. | HCl-CD | HCl-Test | HCl-FA | HCl-FloMon | HCl-pHMon |
|-------------|-------------------|--------|----------|--------|------------|-----------|
| PFUF510     | 63DDDDD-3         |        |          |        |            |           |
| PFUF530     | 63DDDDD-3         |        |          |        |            |           |
| PTUF301     | 63DDDDD-3         |        |          |        |            |           |
| TDUF501     | 63DDDDD-1         |        |          |        |            |           |
| TDUF507     | 63DDDDD-2         |        |          |        |            |           |

**Boiler/Steam Generator/Steam Generating Unit Attributes**  
**Form OP-UA6 (Page 6)**  
**Federal Operating Permit Program**  
**Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Construction/Modification Date | Heat Input Capacity | Subpart Da | Changes to Existing Affected Facility | Subpart Ea, Eb, or AAAA | Subpart KKKK | Subpart Cb or BBBB |
|-------------|---------------|--------------------------------|---------------------|------------|---------------------------------------|-------------------------|--------------|--------------------|
| LAUF3629A   | 60Db-1        | 05+CR                          | 250+                | NO         | NO                                    | NO                      | NO           | NO                 |
| LAUF3629A   | 60Db-2        | 05+CR                          | 250+                | NO         | NO                                    | NO                      | NO           | NO                 |
| SPUF3629B   | 60Db-3        | 05+CR                          | 100-250             | NO         | NO                                    | NO                      | NO           | NO                 |
| SPUF3629B   | 60Db-4        | 05+CR                          | 100-250             | NO         | NO                                    | NO                      | NO           | NO                 |
|             |               |                                |                     |            |                                       |                         |              |                    |
|             |               |                                |                     |            |                                       |                         |              |                    |
|             |               |                                |                     |            |                                       |                         |              |                    |
|             |               |                                |                     |            |                                       |                         |              |                    |
|             |               |                                |                     |            |                                       |                         |              |                    |
|             |               |                                |                     |            |                                       |                         |              |                    |



**Boiler/Steam Generator/Steam Generating Unit Attributes**  
**Form OP-UA6 (Page 7)**  
**Federal Operating Permit Program**  
**Table 3b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | D-Series Fuel Type | D-Series Fuel Type | D-Series Fuel Type | Subpart D | Subpart J | Subpart E | ACF Option SO <sub>2</sub> | ACF Option PM | ACF Option NO <sub>x</sub> |
|-------------|---------------|--------------------|--------------------|--------------------|-----------|-----------|-----------|----------------------------|---------------|----------------------------|
| LAUF3629A   | 60Db-1        | NG                 |                    |                    | NO        | NO        | NO        | OTHR                       | OTHR          | OTHR                       |
| LAUF3629A   | 60Db-2        | GFF                |                    |                    | NO        | NO        | NO        | OTHR                       | OTHR          | OTHR                       |
| SPUF3629B   | 60Db-3        | NG                 |                    |                    | NO        | NO        | NO        | OTHR                       | OTHR          | OTHR                       |
| SPUF3629B   | 60Db-4        | GFF                |                    |                    | NO        | NO        | NO        | OTHR                       | OTHR          | OTHR                       |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |
|             |               |                    |                    |                    |           |           |           |                            |               |                            |

**Boiler/Steam Generator/Steam Generating Unit Attributes**  
**Form OP-UA6 (Page 8)**  
**Federal Operating Permit Program**  
**Table 3c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | 60.42b (k)(2) Low Sulfur Exemption | 60.42b (k)(4) Alternative | Post-Combustion Control | 60.43b(h)(2) Alternative | Electrical or Mechanical Output | Output Based Limit | Steam with Electricity | Electricity Only | 60.49 Da(n) Alternative | 60.49 Da(m) Alternative |
|-------------|---------------|------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------------|--------------------|------------------------|------------------|-------------------------|-------------------------|
| LAUF3629A   | 60Db-1        | YES                                |                           |                         |                          | NO                              |                    |                        |                  | NO                      | NO                      |
| LAUF3629A   | 60Db-2        | YES                                |                           |                         |                          | NO                              |                    |                        |                  | NO                      | NO                      |
| SPUF3629B   | 60Db-3        | YES                                |                           |                         |                          | NO                              |                    |                        |                  | NO                      | NO                      |
| SPUF3629B   | 60Db-4        | YES                                |                           |                         |                          | NO                              |                    |                        |                  | NO                      | NO                      |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |
|             |               |                                    |                           |                         |                          |                                 |                    |                        |                  |                         |                         |

**Boiler/Steam Generator/Steam Generating Unit Attributes**  
**Form OP-UA6 (Page 9)**  
**Federal Operating Permit Program**  
**Table 3d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**  
**Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Residual Oil Sampling | Monitoring Type PM | Monitoring Type Opacity | Monitoring Type NO <sub>x</sub> | Monitoring Type SO <sub>2</sub> | Technology Type | Unit Type | Heat Release Rate | Heat Input Gas/Oil | Heat Input Wood | Fuel Heat Input |
|-------------|---------------|-----------------------|--------------------|-------------------------|---------------------------------|---------------------------------|-----------------|-----------|-------------------|--------------------|-----------------|-----------------|
| LAUF3629A   | 60Db-1        | NO                    | NONE               | NONE                    | CEM                             | FLCRT                           | NONE            | OTHER     | NGHIGH            |                    |                 |                 |
| LAUF3629A   | 60Db-2        | NO                    | NONE               | NONE                    | CEM                             | FLSMP                           | NONE            | OTHER     |                   |                    |                 |                 |
| SPUF3629B   | 60Db-3        | NO                    | NONE               | NONE                    | CEM                             | FLCRT                           | NONE            | OTHER     | NGHIGH            |                    |                 |                 |
| SPUF3629B   | 60Db-4        | NO                    | NONE               | NONE                    | CEM                             | FLSMP                           | NONE            | OTHER     |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |
|             |               |                       |                    |                         |                                 |                                 |                 |           |                   |                    |                 |                 |

**Texas Commission on Environmental Quality**  
**Flare Attributes**  
**Form OP-UA7 (Page 1)**  
**Federal Operating Permit Program**  
**Table 1: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)**  
**Control of Air Pollution from Visible Emissions and Particulate Matter**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP/GOP Index No | Acid Gases Only | Emergency/Upset<br>Conditions Only | Alternate Opacity<br>Limitation (AOL) | AOL ID No. | Construction Date |
|-------------|------------------|-----------------|------------------------------------|---------------------------------------|------------|-------------------|
| FS09        | R1111            | NO              | NO                                 |                                       |            |                   |
| FS12        | R1111            | NO              | NO                                 | NO                                    |            |                   |
| FS23        | R1111            | NO              | NO                                 |                                       |            |                   |
| FS24        | R1111            | NO              | NO                                 |                                       |            |                   |
| FS28        | R1111            | NO              | NO                                 |                                       |            |                   |
| FS30        | R1111            | NO              | NO                                 |                                       |            |                   |
|             |                  |                 |                                    |                                       |            |                   |
|             |                  |                 |                                    |                                       |            |                   |
|             |                  |                 |                                    |                                       |            |                   |
|             |                  |                 |                                    |                                       |            |                   |

**Texas Commission on Environmental Quality**  
**Flare Attributes**  
**Form OP-UA7 (Page 3)**  
**Federal Operating Permit Program**

**Table 3: Title 40 Code of Federal Regulations Part 60 and 61 (40 CFR Part 60 and 40 CFR Part 61)**

**Subpart A: General Provisions of Standards of Performance for New Stationary Sources and National Emission Standards for Hazardous Air Pollutants**

| <b>Date</b>       | <b>Permit No.:</b> | <b>Regulated Entity No.</b> |
|-------------------|--------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>       | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Subject to<br/>40 CFR §60.18</b> | <b>Adhering to Heat<br/>Content Specifications</b> | <b>Flare Assist Type</b> | <b>Flare Exit Velocity</b> | <b>Heating Value of Gas</b> |
|--------------------|--------------------------|-------------------------------------|----------------------------------------------------|--------------------------|----------------------------|-----------------------------|
| FS09               | 60A-01                   | YES                                 | YES                                                | STEAM                    | 60-                        |                             |
| FS09               | 60A-02                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000-                       |
| FS09               | 60A-03                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000+                       |
| FS12               | 60A-01                   | YES                                 | YES                                                | STEAM                    | 60-                        |                             |
| FS12               | 60A-02                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000-                       |
| FS12               | 60A-03                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000+                       |
| FS23               | 60A-01                   | YES                                 | YES                                                | STEAM                    | 60-                        |                             |
| FS23               | 60A-02                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000-                       |
| FS23               | 60A-03                   | YES                                 | YES                                                | STEAM                    | 60-400                     | 1000+                       |
| FS24               | 60A-01                   | YES                                 | YES                                                | STEAM                    | 60-                        |                             |

| Unit ID No. | SOP/GOP Index No. | Subject to<br>40 CFR §60.18 | Adhering to Heat<br>Content Specifications | Flare Assist Type | Flare Exit Velocity | Heating Value of Gas |
|-------------|-------------------|-----------------------------|--------------------------------------------|-------------------|---------------------|----------------------|
| FS24        | 60A-02            | YES                         | YES                                        | STEAM             | 60-400              | 1000-                |
| FS24        | 60A-03            | YES                         | YES                                        | STEAM             | 60-400              | 1000+                |
| FS30        | 60A-01            | YES                         | YES                                        | STEAM             | 60-                 |                      |
| FS30        | 60A-02            | YES                         | YES                                        | STEAM             | 60-400              | 1000-                |
| FS30        | 60A-03            | YES                         | YES                                        | STEAM             | 60-400              | 1000+                |
|             |                   |                             |                                            |                   |                     |                      |
|             |                   |                             |                                            |                   |                     |                      |
|             |                   |                             |                                            |                   |                     |                      |
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**Texas Commission on Environmental Quality**  
**Flare Attributes**  
**Form OP-UA7 (Page 4)**  
**Federal Operating Permit Program**  
**Table 4: Title 40 Code of Federal Regulations Part 63**

**Subpart A: General Provisions of National Emission Standards for Hazardous Air Pollutants for Source Categories**

| <b>Date</b>       | <b>Permit No.:</b> | <b>Regulated Entity No.</b> |
|-------------------|--------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>       | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Required Under<br/>40 CFR Part 63</b> | <b>Heat Content<br/>Specification</b> | <b>Flare Assist Type</b> | <b>Flare Exit Velocity</b> | <b>Heating Value of Gas</b> |
|--------------------|--------------------------|------------------------------------------|---------------------------------------|--------------------------|----------------------------|-----------------------------|
| FS09               | 63A-01                   | YES                                      | YES                                   | STEAM                    | 60-                        |                             |
| FS09               | 63A-02                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000-                       |
| FS09               | 63A-03                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000+                       |
| FS12               | 63A-01                   | YES                                      | YES                                   | STEAM                    | 60-                        |                             |
| FS12               | 63A-02                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000-                       |
| FS12               | 63A-03                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000+                       |
| FS23               | 63A-01                   | YES                                      | YES                                   | STEAM                    | 60-                        |                             |
| FS23               | 63A-02                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000-                       |
| FS23               | 63A-03                   | YES                                      | YES                                   | STEAM                    | 60-400                     | 1000+                       |
| FS24               | 63A-01                   | YES                                      | YES                                   | STEAM                    | 60-                        |                             |

| Unit ID No. | SOP/GOP Index No. | Required Under<br>40 CFR Part 63 | Heat Content<br>Specification | Flare Assist Type | Flare Exit Velocity | Heating Value of Gas |
|-------------|-------------------|----------------------------------|-------------------------------|-------------------|---------------------|----------------------|
| FS24        | 63A-02            | YES                              | YES                           | STEAM             | 60-400              | 1000-                |
| FS24        | 63A-03            | YES                              | YES                           | STEAM             | 60-400              | 1000+                |
| FS30        | 63A-01            | YES                              | YES                           | STEAM             | 60-                 |                      |
| FS30        | 63A-02            | YES                              | YES                           | STEAM             | 60-400              | 1000-                |
| FS30        | 63A-03            | YES                              | YES                           | STEAM             | 60-400              | 1000+                |
|             |                   |                                  |                               |                   |                     |                      |
|             |                   |                                  |                               |                   |                     |                      |
|             |                   |                                  |                               |                   |                     |                      |
|             |                   |                                  |                               |                   |                     |                      |
|             |                   |                                  |                               |                   |                     |                      |



**Texas Commission on Environmental Quality**  
**Flare Attributes**  
**Form OP-UA7 (Page 5)**  
**Federal Operating Permit Program**  
**Table 5a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H, Division 1: Highly-Reactive Volatile Organic Compounds-Vent Gas Control**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Out of Service | Total Gas Stream | Gas Stream Concentration | Exempt Date | Alternative Monitoring Approach | Modifications to Testing/Monitoring | Modifications to Testing/Monitoring ID No. | Flare Type |
|-------------|---------------|----------------|------------------|--------------------------|-------------|---------------------------------|-------------------------------------|--------------------------------------------|------------|
| FS09        | R115H         | NO             | YES              | YES                      |             | OTHER                           | NONE                                |                                            | MULTI      |
| FS12        | R115H         | NO             | YES              | YES                      |             | OTHER                           | NONE                                |                                            | MULTI      |
| FS23        | R115H         | NO             | YES              | YES                      |             | OTHER                           | NONE                                |                                            | MULTI      |
| FS24        | R115H         | NO             | YES              | YES                      |             | OTHER                           | NONE                                |                                            | MULTI      |
| FS30        | R115H         | NO             | YES              | YES                      |             | 725M1                           | MINOR                               | 9/14/2018                                  | MULTI      |
|             |               |                |                  |                          |             |                                 |                                     |                                            |            |
|             |               |                |                  |                          |             |                                 |                                     |                                            |            |
|             |               |                |                  |                          |             |                                 |                                     |                                            |            |
|             |               |                |                  |                          |             |                                 |                                     |                                            |            |
|             |               |                |                  |                          |             |                                 |                                     |                                            |            |

**Texas Commission on Environmental Quality**  
**Flare Attributes**  
**Form OP-UA7 (Page 6)**  
**Federal Operating Permit Program**  
**Table 5b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H, Division 1: Highly-Reactive Volatile Organic Compounds-Vent Gas Control**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Monitoring Requirements | §115.725(e) Requirements | Multi-Purpose Usage | Flow Rate | Physical Seal | Monitoring Option | §115.725(h)(4) Alternative | Tank Service |
|-------------|---------------|-------------------------|--------------------------|---------------------|-----------|---------------|-------------------|----------------------------|--------------|
| FS09        | R115H         | YES                     |                          |                     |           |               |                   | NO                         | NO           |
| FS12        | R115H         | YES                     |                          |                     |           |               |                   | NO                         | NO           |
| FS23        | R115H         | YES                     |                          |                     |           |               |                   | NO                         | NO           |
| FS24        | R115H         | YES                     |                          |                     |           |               |                   | NO                         | NO           |
| FS30        | R115H         | YES                     |                          |                     |           |               |                   | NO                         | NO           |
|             |               |                         |                          |                     |           |               |                   |                            |              |
|             |               |                         |                          |                     |           |               |                   |                            |              |
|             |               |                         |                          |                     |           |               |                   |                            |              |
|             |               |                         |                          |                     |           |               |                   |                            |              |
|             |               |                         |                          |                     |           |               |                   |                            |              |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 11)**

**Federal Operating Permit Program**

**Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, and Petrochemical Processes in Ozone  
Nonattainment Areas**

**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Title 30 TAC § 115.352<br/>Applicable</b> | <b>&lt; 250<br/>Components at Site</b> | <b>Weight Percent VOC</b> | <b>Reciprocating<br/>Compressors or Positive<br/>Displacement Pumps</b> |
|--------------------|--------------------------|----------------------------------------------|----------------------------------------|---------------------------|-------------------------------------------------------------------------|
| FGRHB              | R5352-ALL                |                                              |                                        |                           |                                                                         |
| BTCPFUG            | R5352-ALL                |                                              |                                        |                           |                                                                         |
|                    |                          |                                              |                                        |                           |                                                                         |
|                    |                          |                                              |                                        |                           |                                                                         |
|                    |                          |                                              |                                        |                           |                                                                         |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 21)**

**Federal Operating Permit Program**

**Table 2k: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**

**Subchapter D: Fugitive Emission Control in Petroleum Refining, Natural Gas/Gasoline Processing, and Petrochemical Processes in Ozone  
Nonattainment Areas**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Components Utilizing Alternative Work Practice in § 115.358 | Title 30 TAC § 115.358 Fugitive Unit Description |
|-------------|---------------|-------------------------------------------------------------|--------------------------------------------------|
| BTCPFUG     | R5352-ALL     | NO                                                          | BTCP FUGITIVE COMPONENTS                         |
|             |               |                                                             |                                                  |
|             |               |                                                             |                                                  |
|             |               |                                                             |                                                  |
|             |               |                                                             |                                                  |
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|             |               |                                                             |                                                  |

**Fugitive Emission Unit Attributes**

**Form OP-UA12 (Page 32)**

**Federal Operating Permit Program**

**Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Produces Chemicals | Affected Facility | Construction/<br>Modification<br>Date | Compliance<br>Option | Design Capacity | Produces Heavy<br>Liquid<br>Chemicals | Beverage<br>Alcohol<br>Production |
|-------------|---------------|--------------------|-------------------|---------------------------------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
| BTCPFUG     | 60VV-ALL      |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |
|             |               |                    |                   |                                       |                      |                 |                                       |                                   |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 39)  
Federal Operating Permit Program**

**Table 4h: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which  
Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID. No. | SOP Index No. | Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued) |     |            |                          |                    |
|--------------|---------------|-----------------------------------------------------------------------|-----|------------|--------------------------|--------------------|
|              |               | Closed Vent Systems and Control Devices                               |     |            |                          |                    |
|              |               | Vapor Recovery System                                                 | EEL | EEL ID No. | Complying with 60.482-10 | Control Device ID. |
| BTCPFUG      | 60VV-ALL      | YES                                                                   | NO  |            | YES                      |                    |
|              |               |                                                                       |     |            |                          |                    |
|              |               |                                                                       |     |            |                          |                    |
|              |               |                                                                       |     |            |                          |                    |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 40)**

**Federal Operating Permit Program**

**Table 4i: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which  
Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID. No. | SOP Index No. | Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued) |     |            |                          |                    |
|--------------|---------------|-----------------------------------------------------------------------|-----|------------|--------------------------|--------------------|
|              |               | Closed Vent Systems and Control Devices (continued)                   |     |            |                          |                    |
|              |               | Enclosed Combustion Device                                            | EEL | EEL ID No. | Complying with 60.482-10 | Control Device ID. |
| BTCPFUG      | 60VV-ALL      | NO                                                                    |     |            |                          |                    |
|              |               |                                                                       |     |            |                          |                    |
|              |               |                                                                       |     |            |                          |                    |
|              |               |                                                                       |     |            |                          |                    |
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|              |               |                                                                       |     |            |                          |                    |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 41)  
Federal Operating Permit Program**

**Table 4j: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which  
Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued) |     |            |                          |                    |
|-------------|---------------|-----------------------------------------------------------------------|-----|------------|--------------------------|--------------------|
|             |               | Closed Vent System and Control Device                                 |     |            |                          |                    |
|             |               | Flare                                                                 | EEL | EEL ID No. | Complying with 60.482-10 | Control Device ID. |
| BTCPFUG     | 60VV-ALL      | YES                                                                   | NO  |            | YES                      | FS09, FS23, FS24   |
|             |               |                                                                       |     |            |                          |                    |
|             |               |                                                                       |     |            |                          |                    |
|             |               |                                                                       |     |            |                          |                    |
|             |               |                                                                       |     |            |                          |                    |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 42)**

**Federal Operating Permit Program**

**Table 4k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which  
Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID. No. | SOP Index No. | Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued) |     |            |                          |
|--------------|---------------|-----------------------------------------------------------------------|-----|------------|--------------------------|
|              |               | Closed Vent System and Control Devices                                |     |            |                          |
|              |               | CVS(or Vapor Collection System)                                       | EEL | EEL ID No. | Complying with 60.482-10 |
| BTCPFUG      | 60VV-ALL      | YES                                                                   | NO  |            |                          |
|              |               |                                                                       |     |            |                          |
|              |               |                                                                       |     |            |                          |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 43)**

**Federal Operating Permit Program**

**Table 4I: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VV: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which  
Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VV Fugitive Unit Components (continued) |
|-------------|---------------|-----------------------------------------------------------------------|
|             |               | Title 40 CFR Part 60, Subpart VV Fugitive Unit Description            |
| BTCPFUG     | 60VV-ALL      | BTCP FUGITIVE COMPONENTS                                              |
|             |               |                                                                       |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 44)**

**Federal Operating Permit Program**

**Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Manufactured Product | Continuous Process | Construction/Modification Date | VOC Service | Design Capacity | Equipment in Vacuum Service | VOC Service Less Than 300 Hours |
|-------------|---------------|----------------------|--------------------|--------------------------------|-------------|-----------------|-----------------------------|---------------------------------|
| BTCPFUG     | 60DDD-ALL     |                      |                    |                                |             |                 |                             |                                 |
|             |               |                      |                    |                                |             |                 |                             |                                 |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 50)**

**Federal Operating Permit Program**

**Table 5g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart DDD Fugitive Unit Components (continued) |     |            |                            |                       |                            |     |            |                            |                       |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|----------------------------|-----------------------|----------------------------|-----|------------|----------------------------|-----------------------|
|             |               | Vapor Recovery System                                                  | EEL | EEL ID No. | Complying with § 60.482-10 | Control Device ID No. | Enclosed Combustion Device | EEL | EEL ID No. | Complying with § 60.482-10 | Control Device ID No. |
| BTCPFUG     | 60DDD-ALL     | YES                                                                    | NO  |            | YES                        |                       | NO                         |     |            |                            |                       |
|             |               |                                                                        |     |            |                            |                       |                            |     |            |                            |                       |
|             |               |                                                                        |     |            |                            |                       |                            |     |            |                            |                       |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 51)**

**Federal Operating Permit Program**

**Table 5h: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart DDD: Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No | SOP Index No. | Title 40 CFR Part 60, Subpart DDD | Fugitive Unit | Components (continued) |                            |                       | Title 40 CFR Part 60, Subpart DDD Fugitive Unit Description |
|------------|---------------|-----------------------------------|---------------|------------------------|----------------------------|-----------------------|-------------------------------------------------------------|
|            |               | Flare                             | BEEL          | BEEL ID No.            | Complying with § 60.482-10 | Control Device ID No. |                                                             |
| BTCPFUG    | 60DDD-ALL     | YES                               | NO            |                        | YES                        | FS09, FS23, FS24      | BTCP FUGITIVE COMPONENTS                                    |
|            |               |                                   |               |                        |                            |                       |                                                             |
|            |               |                                   |               |                        |                            |                       |                                                             |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 70)**  
**Federal Operating Permit Program**  
**Table 9a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Equipment Type | Non Research and Development/Batch Processes | Vacuum Service | Less Than 300 Operating Hours | Heavy Liquid Service | AMEL |
|-------------|---------------|----------------|----------------------------------------------|----------------|-------------------------------|----------------------|------|
| BTCPFUG     | 63H-ALL       |                |                                              |                |                               |                      |      |
|             |               |                |                                              |                |                               |                      |      |
|             |               |                |                                              |                |                               |                      |      |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 75)**  
**Federal Operating Permit Program**  
**Table 9f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 63, Subpart H Fugitive Unit Components |                               |                       |                             |                       |        |                       |
|-------------|---------------|----------------------------------------------------------|-------------------------------|-----------------------|-----------------------------|-----------------------|--------|-----------------------|
|             |               | Closed-Vent System                                       |                               |                       |                             |                       |        |                       |
|             |               | Any                                                      | Recovery or Recapture Devices | Control Device ID No. | Enclosed Combustion Devices | Control Device ID No. | Flares | Control Device ID No. |
| BTCPFUG     | 63H-ALL       | YES                                                      | YES                           |                       | NO                          |                       | YES    | FS09, FS23, FS24      |
|             |               |                                                          |                               |                       |                             |                       |        |                       |
|             |               |                                                          |                               |                       |                             |                       |        |                       |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 76)**  
**Federal Operating Permit Program**  
**Table 9g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart H: National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Bypass Lines | Unsafe To Inspect | Difficult To Inspect | Employee Number | Title 40 CFR Part 63, Subpart H Fugitive Unit Description |
|-------------|---------------|--------------|-------------------|----------------------|-----------------|-----------------------------------------------------------|
| BTCPFUG     | 63H-ALL       | YES          | YES               | YES                  | NO              | BTCP FUGITIVE COMPONENTS                                  |
|             |               |              |                   |                      |                 |                                                           |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 111)**  
**Federal Operating Permit Program**  
**Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Equipment Type | Vacuum Service | Enclosed-Vented<br>Process Unit<br>AMEL | Batch Process<br>AMEL | Pressure Test | Heavy Liquid<br>Service |
|-------------|---------------|----------------|----------------|-----------------------------------------|-----------------------|---------------|-------------------------|
| CT19        | 63U-01        | YES            | NO             | NO                                      |                       |               |                         |
| FGRHB       | 63U-ALL       |                |                |                                         |                       |               |                         |
| TK0019      | 63U           | YES            | NO             | NO                                      | NO                    |               |                         |
| TK0030      | 63U           | YES            | NO             | NO                                      | NO                    |               |                         |
|             |               |                |                |                                         |                       |               |                         |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 118)  
Federal Operating Permit Program**

**Table 14h: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Surge Control Vessels<br>or Bottoms Receivers | § 63.502(b)(1)-(7)<br>Criteria | Vapor Pressure<br>Criteria | Compliance<br>with § 63.119(b) or (c) | Routed to Process |
|-------------|---------------|-----------------------------------------------|--------------------------------|----------------------------|---------------------------------------|-------------------|
| TK0019      | 63U           | YES                                           | YES                            | YES                        | YES                                   | NO                |
| TK0030      | 63U           | YES                                           | YES                            | YES                        | YES                                   | NO                |
|             |               |                                               |                                |                            |                                       |                   |
|             |               |                                               |                                |                            |                                       |                   |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 120)**  
**Federal Operating Permit Program**  
**Table 14j: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Heat Exchange Systems | Subpart Compliance | Cooling Water Monitored | Closed-Vent Systems | AMEL | AMEL ID No. | Complying with § 63.172 |
|-------------|---------------|-----------------------|--------------------|-------------------------|---------------------|------|-------------|-------------------------|
| CT19        | 63U-01        | YES                   | YES                |                         |                     |      |             |                         |
| FGRHB       | 63U-ALL       |                       |                    |                         | YES                 | NO   |             | YES                     |
| TK0019      | 63U           |                       |                    |                         | YES                 |      |             |                         |
| TK0030      | 63U           |                       |                    |                         | YES                 |      |             |                         |
|             |               |                       |                    |                         |                     |      |             |                         |
|             |               |                       |                    |                         |                     |      |             |                         |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 121)**  
**Federal Operating Permit Program**  
**Table 14k: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Recovery or Recapture Devices | AMEL | AMEL ID No. | Complying with § 63.172 | Control Device ID No. |
|-------------|---------------|-------------------------------|------|-------------|-------------------------|-----------------------|
| FGRHB       | 63U-ALL       | YES                           | NO   |             | YES                     |                       |
|             |               |                               |      |             |                         |                       |
|             |               |                               |      |             |                         |                       |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 122)**  
**Federal Operating Permit Program**  
**Table 14I: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Enclosed Combustion Devices | AMEL | AMEL ID No. | Complying with § 63.172 | Control Device ID No. |
|-------------|---------------|-----------------------------|------|-------------|-------------------------|-----------------------|
| FGRHB       | 63U-ALL       | NO                          |      |             |                         |                       |
|             |               |                             |      |             |                         |                       |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 123)**  
**Federal Operating Permit Program**  
**Table 14m: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standard for Hazardous Air Pollutant Emissions: Group I Polymers and Resins**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Flares | AMEL | AMEL ID No. | Complying with § 63.172 | Control Device ID No. | Title 40 CFR Part 63, Subpart U Fugitive Unit Description |
|-------------|---------------|--------|------|-------------|-------------------------|-----------------------|-----------------------------------------------------------|
| FGRHB       | 63U-ALL       | YES    | NO   |             | YES                     | FS12                  | RHB FUGITIVE COMPONENTS                                   |
|             |               |        |      |             |                         |                       |                                                           |
|             |               |        |      |             |                         |                       |                                                           |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 138)**  
**Federal Operating Permit Program**  
**Table 16a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID. No. | SOP/GOP Index No. | Title 30 TAC § 115.780 Applicable | Less Than 250 Components at Site | Weight Percent HRVOC | Title 30 TAC Chapter 115 Fugitive Unit Components |                                    |                                  |
|--------------|-------------------|-----------------------------------|----------------------------------|----------------------|---------------------------------------------------|------------------------------------|----------------------------------|
|              |                   |                                   |                                  |                      | Pumps with Shaft Seal System                      | Compressors with Shaft Seal System | Agitators with Shaft Seal System |
| BTCPFUG      | R5780-ALL         |                                   |                                  |                      |                                                   |                                    |                                  |
|              |                   |                                   |                                  |                      |                                                   |                                    |                                  |
|              |                   |                                   |                                  |                      |                                                   |                                    |                                  |
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**Fugitive Emission Unit Attributes**  
**Form OP-UA12 (Page 144)**  
**Federal Operating Permit Program**  
**Table 16g: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H: Fugitive Emissions (HRVOC)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Alternative Work Practice in § 115.358 | Title 30 TAC § 115.358 Fugitive Unit Description |
|-------------|-------------------|----------------------------------------|--------------------------------------------------|
| BTCPFUG     | R5780-ALL         | NO                                     | BTCP FUGITIVE COMPONENTS                         |
|             |                   |                                        |                                                  |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 145)  
Federal Operating Permit Program**

**Table 17a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Produces Chemicals | Affected Facility | Construction/Modification Date | Compliance Option | Design Capacity | Facility Type |
|-------------|---------------|--------------------|-------------------|--------------------------------|-------------------|-----------------|---------------|
| BTCPFUG     | 60VVa         | YES                | YES               | 06+                            | 63H               |                 |               |
| BTCPFUG     | 60VVa-ALL     | YES                | YES               | 06+                            | 60VVA             | 1000+           | OTHER         |
|             |               |                    |                   |                                |                   |                 |               |
|             |               |                    |                   |                                |                   |                 |               |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 146)  
Federal Operating Permit Program**

**Table 17b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components |     |            |                          |
|-------------|---------------|------------------------------------------------------------|-----|------------|--------------------------|
|             |               | Pumps                                                      |     |            |                          |
|             |               | Light Liquid Service                                       | EEL | EEL ID No. | Complying with 60.482-2a |
| BTCPFUG     | 60VVa-ALL     | YES                                                        | NO  |            | YES                      |
|             |               |                                                            |     |            |                          |
|             |               |                                                            |     |            |                          |
|             |               |                                                            |     |            |                          |
|             |               |                                                            |     |            |                          |
|             |               |                                                            |     |            |                          |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 147)  
Federal Operating Permit Program**

**Table 17c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |            |                          |                         |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|--------------------------|-------------------------|
|             |               | Compressor                                                             |     |            |                          | Pressure Relief Devices |
|             |               | Compressor                                                             | EEL | EEL ID No. | Complying with 60.482-3a | Gas/Vapor Service       |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |            | YES                      | YES                     |
|             |               |                                                                        |     |            |                          |                         |
|             |               |                                                                        |     |            |                          |                         |
|             |               |                                                                        |     |            |                          |                         |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 148)  
Federal Operating Permit Program**

**Table 17d: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR        | Part VVa   | Fugitive Unit | Components               | (continued) |     |            |                          |
|-------------|---------------|---------------------|------------|---------------|--------------------------|-------------|-----|------------|--------------------------|
|             |               | Sampling            | Connection | System        |                          | Valves      |     |            |                          |
|             |               | Sampling Connection | EEL        | EEL ID No.    | Complying with 60.482-5a | Open-Ended  | EEL | EEL ID No. | Complying with 60.482-6a |
| BTCPFUG     | 60VVa-ALL     | YES                 | NO         |               | YES                      | YES         | NO  |            | YES                      |
|             |               |                     |            |               |                          |             |     |            |                          |
|             |               |                     |            |               |                          |             |     |            |                          |
|             |               |                     |            |               |                          |             |     |            |                          |
|             |               |                     |            |               |                          |             |     |            |                          |
|             |               |                     |            |               |                          |             |     |            |                          |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 149)  
Federal Operating Permit Program**

**Table 17e: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |      |     |            |                          |
|-------------|---------------|------------------------------------------------------------------------|------|-----|------------|--------------------------|
|             |               | Valves (continued)                                                     |      |     |            |                          |
|             |               | Gas/Vapor or Light Liquid Service                                      | 2.0% | EEL | EEL ID No. | Complying with 60.482-7a |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | YES  | NO  |            | YES                      |
|             |               |                                                                        |      |     |            |                          |
|             |               |                                                                        |      |     |            |                          |
|             |               |                                                                        |      |     |            |                          |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 150)  
Federal Operating Permit Program**

**Table 17f: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |            |                          |                      |     |            |                          |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|--------------------------|----------------------|-----|------------|--------------------------|
|             |               | Pumps                                                                  |     |            |                          | Valves               |     |            |                          |
|             |               | Heavy Liquid Service                                                   | EEL | EEL ID No. | Complying with 60.482-8a | Heavy Liquid Service | EEL | EEL ID No. | Complying with 60.482-8a |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |            | YES                      | YES                  | NO  |            | YES                      |
|             |               |                                                                        |     |            |                          |                      |     |            |                          |
|             |               |                                                                        |     |            |                          |                      |     |            |                          |
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**Fugitive Emission Unit Attributes  
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Federal Operating Permit Program**

**Table 17g: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |                |                          |                      |     |            |                          |
|-------------|---------------|------------------------------------------------------------------------|-----|----------------|--------------------------|----------------------|-----|------------|--------------------------|
|             |               | Pressure                                                               |     | Relief Devices |                          | Connectors           |     |            |                          |
|             |               | Heavy or Light Liquid Service                                          | EEL | EEL ID No.     | Complying with 60.482-8a | Heavy Liquid Service | EEL | EEL ID No. | Complying with 60.482-8a |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |                | YES                      | YES                  | NO  |            | YES                      |
|             |               |                                                                        |     |                |                          |                      |     |            |                          |
|             |               |                                                                        |     |                |                          |                      |     |            |                          |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 152)  
Federal Operating Permit Program**

**Table 17h: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |            |                           |                            |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|---------------------------|----------------------------|
|             |               | Closed-Vent Systems and Control Devices                                |     |            |                           |                            |
|             |               | Vapor Recovery System                                                  | EEL | EEL ID No. | Complying with 60.482-10a | Control Device ID.         |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |            | YES                       | MPUF2074, FS09, FS23, FS24 |
|             |               |                                                                        |     |            |                           |                            |
|             |               |                                                                        |     |            |                           |                            |
|             |               |                                                                        |     |            |                           |                            |
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**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 153)  
Federal Operating Permit Program**

**Table 17i: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)**

**Subpart VVa: Standards of Performance For Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |                             |                           |                    |
|-------------|---------------|------------------------------------------------------------------------|-----|-----------------------------|---------------------------|--------------------|
|             |               | Closed Vent Systems and                                                |     | Control Devices (continued) |                           |                    |
|             |               | Enclosed Combustion Device                                             | EEL | EEL ID No.                  | Complying With 60.482-10a | Control Device ID. |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |                             | YES                       | MPUF2074           |
|             |               |                                                                        |     |                             |                           |                    |
|             |               |                                                                        |     |                             |                           |                    |
|             |               |                                                                        |     |                             |                           |                    |
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|             |               |                                                                        |     |                             |                           |                    |
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|             |               |                                                                        |     |                             |                           |                    |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 154)  
Federal Operating Permit Program**

**Table 17j: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |            |                           |                    |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|---------------------------|--------------------|
|             |               | Control Devices                                                        |     |            |                           |                    |
|             |               | Flare                                                                  | EEL | EEL ID No. | Complying with 60.482-10a | Control Device ID. |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |            | YES                       | FS09, FS23, FS24   |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |
|             |               |                                                                        |     |            |                           |                    |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 155)  
Federal Operating Permit Program**

**Table 17k: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |     |            |                           |                                   |
|-------------|---------------|------------------------------------------------------------------------|-----|------------|---------------------------|-----------------------------------|
|             |               | Control Devices                                                        |     |            |                           | Connectors                        |
|             |               | CVS                                                                    | EEL | EEL ID No. | Complying with 60.482-10a | Gas/Vapor or Light Liquid Service |
| BTCPFUG     | 60VVa-ALL     | YES                                                                    | NO  |            | YES                       | YES                               |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |
|             |               |                                                                        |     |            |                           |                                   |

**Fugitive Emission Unit Attributes  
Form OP-UA12 (Page 156)  
Federal Operating Permit Program**

**Table 17I: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)  
Subpart VVa: Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry  
for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Components (continued) |
|-------------|---------------|------------------------------------------------------------------------|
|             |               | Title 40 CFR Part 60, Subpart VVa Fugitive Unit Description            |
| BTCPFUG     | 60VVa-ALL     | BTCP FUGITIVE COMPONENTS.                                              |
|             |               |                                                                        |
|             |               |                                                                        |
|             |               |                                                                        |
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|             |               |                                                                        |

**Texas Commission on Environmental Quality  
Cooling Tower Attributes  
Form OP-UA13 (Page 3)  
Federal Operating Permit Program**

**Table 3a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter H, Division 2: Cooling Tower Heat Exchange Systems**

| <b>Date</b>       | <b>Permit No.:</b> | <b>Regulated Entity No.</b> |
|-------------------|--------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>       | <b>RN102574803</b>          |

| <b>Unit ID No.</b> | <b>SOP Index No.</b> | <b>Cooling Tower Heat Exchange Systems Exemptions</b> | <b>Alternative Monitoring</b> | <b>Modified Monitoring</b> | <b>Approved Monitoring ID No.</b> |
|--------------------|----------------------|-------------------------------------------------------|-------------------------------|----------------------------|-----------------------------------|
| CT17               | R5760                | NONE                                                  | NO                            | NO                         |                                   |
| CT18               | R5760                | NONE                                                  | NO                            | NO                         |                                   |
| CT19               | R5760                | NONE                                                  | NO                            | NO                         |                                   |
| CT70               | R5760                | NONE                                                  | NO                            | NO                         |                                   |
| CT90               | R5760                | NONE                                                  | NO                            | NO                         |                                   |
|                    |                      |                                                       |                               |                            |                                   |
|                    |                      |                                                       |                               |                            |                                   |
|                    |                      |                                                       |                               |                            |                                   |
|                    |                      |                                                       |                               |                            |                                   |
|                    |                      |                                                       |                               |                            |                                   |

**Texas Commission on Environmental Quality**  
**Cooling Tower Attributes**  
**Form OP-UA13 (Page 4)**  
**Federal Operating Permit Program**

**Table 3b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter H, Division 2: Cooling Tower Heat Exchange Systems**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Jacketed Reactor | Design Capacity | Finite Volume System | Flow Monitoring/<br>Testing Method | Total Strippable<br>VOC | On-Line Monitor |
|-------------|---------------|------------------|-----------------|----------------------|------------------------------------|-------------------------|-----------------|
| CT17        | R5760         | NO               | 8000+           | NO                   | INLET                              | NO                      | YES             |
| CT18        | R5760         | NO               | 8000+           | NO                   | INLET                              | NO                      | YES             |
| CT19        | R5760         | NO               | 8000+           | NO                   | INLET                              | NO                      | YES             |
| CT70        | R5760         | NO               | 8000+           | NO                   | INLET                              | NO                      | YES             |
| CT90        | R5760         | NO               | 8000+           | NO                   | INLET                              | NO                      | YES             |
|             |               |                  |                 |                      |                                    |                         |                 |
|             |               |                  |                 |                      |                                    |                         |                 |
|             |               |                  |                 |                      |                                    |                         |                 |
|             |               |                  |                 |                      |                                    |                         |                 |
|             |               |                  |                 |                      |                                    |                         |                 |

**Texas Commission on Environmental Quality  
Cooling Tower Attributes  
Form OP-UA13 (Page 7)  
Federal Operating Permit Program**

**Table 6: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Monitoring |
|-------------|---------------|------------|
| CT17        | 63FFFF        | YES        |
| CT18        | 63FFFF        | YES        |
| CT70        | 63FFFF        | YES        |
|             |               |            |
|             |               |            |
|             |               |            |
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**Water Separator Attributes**  
**Form OP-UA14 (Page 1)**  
**Federal Operating Permit Program**  
**Table 1: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Water Separation**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement (ACR) | ACR ID No. | Exemption | Emission Control Option | Control Device | Control Device ID No. |
|-------------|-------------------|-------------------------------------|------------|-----------|-------------------------|----------------|-----------------------|
| AXUSEP      | R5132             | NO                                  |            | NONE      | ENCL                    |                |                       |
| BUTYLSEP    | R5132             | NO                                  |            | ATVP      |                         |                |                       |
| IBUSEP      | R5132             | NO                                  |            | NONE      | ENCL                    |                |                       |
| NRUSEP      | R5132             | NO                                  |            | ATVP      |                         |                |                       |
| NWCSEP101   | R5132             | NO                                  |            | ATVP      |                         |                |                       |
| SEPBAPP     | R5132             | NO                                  |            | ATVP      |                         |                |                       |
| TDUSEP      | R5132             | NO                                  |            | NONE      | ENCL                    |                |                       |
|             |                   |                                     |            |           |                         |                |                       |
|             |                   |                                     |            |           |                         |                |                       |
|             |                   |                                     |            |           |                         |                |                       |



**Water Separator Attributes**  
**Form OP-UA14 (Page 2)**  
**Federal Operating Permit Program**  
**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart VV: National Emission Standards for Oil-Water Separators and Organic-Water Separators**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Unit ID No. | SOP Index No. | Control | Emissions Control | No Detectable Organic Emissions | Inspected and Monitored | By-pass Device | Flow Meter | Design Analysis |
|-------------|---------------|---------|-------------------|---------------------------------|-------------------------|----------------|------------|-----------------|
| AXUSEP      | 63VV          | NO      |                   |                                 |                         |                |            |                 |
| BUTYLSEP    | 63VV          | NO      |                   |                                 |                         |                |            |                 |
| NRUSEP      | 63VV          | NO      |                   |                                 |                         |                |            |                 |
| NWCSEP101   | 63VV          | NO      |                   |                                 |                         |                |            |                 |
| TDUSEP      | 63VV          | NO      |                   |                                 |                         |                |            |                 |
|             |               |         |                   |                                 |                         |                |            |                 |
|             |               |         |                   |                                 |                         |                |            |                 |
|             |               |         |                   |                                 |                         |                |            |                 |
|             |               |         |                   |                                 |                         |                |            |                 |
|             |               |         |                   |                                 |                         |                |            |                 |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 1)**

**Federal Operating Permit Program**

**Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)**

**Subchapter A: Visible Emissions**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP/GOP Index No. | Alternate Opacity Limitation | AOL ID No. | Vent Source | Opacity Monitoring System | Construction Date | Effluent Flow Rate |
|-----------------------|-------------------|------------------------------|------------|-------------|---------------------------|-------------------|--------------------|
| LAUF3629A             | R111              | NO                           |            | OTHER       | NONE                      | 72+               | 100+               |
| SPUF3629B             | R111              | NO                           |            | OTHER       | NONE                      | 72+               | 100+               |
| SPUSTK1               | R111              | NO                           |            | OTHER       | NONE                      | 72+               | 100+               |
| SPUSTK2               | R111              | NO                           |            | OTHER       | NONE                      | 72+               | 100+               |
|                       |                   |                              |            |             |                           |                   |                    |
|                       |                   |                              |            |             |                           |                   |                    |
|                       |                   |                              |            |             |                           |                   |                    |
|                       |                   |                              |            |             |                           |                   |                    |
|                       |                   |                              |            |             |                           |                   |                    |
|                       |                   |                              |            |             |                           |                   |                    |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 3)**  
**Federal Operating Permit Program**  
**Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Vent Gas Control**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| ANALYZE               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| AXUT420               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| AXUT430               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| AXUT440               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BAPPANAL              | R5121             | NO                   | NO                 | DISTOPER  |                               | 100-                        | 612-              | YES                                                                |
| BAPPD4403             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD4503             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD4755A            | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD486              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BAPPD5141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPD8757             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPE4742             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| BAPPE6143             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPE7143             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT5141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT6141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BAPPT7141             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE01             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE02             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE03             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BLINEVE04             | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| BPBANAL               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBDRUM               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBMISC               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPBREFRIG             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| BPUD271               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUD272               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUR201               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUR202               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| BPUT201               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| C1INVT                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| C1OBVT                | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| CD0017PC              | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| CD9A                  | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0039VT               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0111VT               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D0315PC               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D-2046                | R5121-1           | NO                   | NO                 | REGVAPPL  |                               | 100+                        |                   |                                                                    |
| D-2046                | R5121-2           | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | NO                                                                 |
| D-2055                | R5121-1           | NO                   | NO                 | REGVAPPL  |                               | 100+                        |                   |                                                                    |
| D-2055                | R5121-2           | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | NO                                                                 |
| D-2074                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| D5111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D6111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D7111                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| D-717                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| DC-1E                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| E4742                 | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE03               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE04               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE05               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE06               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| FHBVE07               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| FHBVE08                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FHBVE09                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FHBVE11                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FS09-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FS12-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FS23-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FS24-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FS30-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| FSD7                         | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| IAUD830                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| IAUVE01                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| IBUF730A/B/C                 | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| J541VT                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| LIN8D496                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| LPUD303                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| LPUT620                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| LPUVE01                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| MPUF2074                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| MPUFIL                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| NRUCOL1                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| NRUCOL1A                     | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| NRUF1A                | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUF6                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUF9A/B              | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUH2/3               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| NRUT12                | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| NWCD0106              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PAUF311               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PAUF321               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PAUT330               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD122AB             | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD122CD             | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD123A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD123C              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD124A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD124B              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD126A              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD126B              | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUD3                 | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PCUE3                 | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUT110               | 115.121-1         | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PCUT110               | 115.121-2         | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |

| Emission Point ID No. | SOP/GOP Index No. | Chapter 115 Division | Combustion Exhaust | Vent Type | Total Uncontrolled VOC Weight | Combined 24-Hour VOC Weight | VOC Concentration | VOC Concentration or Emission Rate at Maximum Operating Conditions |
|-----------------------|-------------------|----------------------|--------------------|-----------|-------------------------------|-----------------------------|-------------------|--------------------------------------------------------------------|
| PCUVE01               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PFUC501               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD2                 | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD301               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD501               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUD512               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PFUF501               | R5121             | NO                   | NO                 | REGVAPPL  |                               |                             |                   |                                                                    |
| PFUF510               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PFUF530               | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        |                   | YES                                                                |
| PPB5121               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPB6121               | R5121             | NO                   | NO                 | DISTOPER  |                               |                             |                   |                                                                    |
| PPBL3-301             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-302             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-303             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-304             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-305             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-306             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-307             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-308             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-309             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |
| PPBL3-310             | R5121             | NO                   | NO                 | REGVAPPL  |                               | 100-                        | 612-              | YES                                                                |



| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPBL3-311                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-312                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-313                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-314                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-315                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-316                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-6-54                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-6-55                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-6-56                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL3-6-57                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL811                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBL841                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN3-6-4                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN3-6-5                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN405                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN605                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN803                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPBN831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPBN833                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCL3-6-91                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCL401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCL601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCY3-6-1                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCY403                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPCY603                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD411                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD480                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD490                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD511                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612+                     | YES                                                                       |
| PPD5143                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD5501                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| PPD611                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612+                     | YES                                                                       |
| PPD6143                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD711                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612+                     | YES                                                                       |
| PPD7143                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD811                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPD841                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC102                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPDC-1A                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC-1E                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC-1F                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC-1H                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC2F                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC2FB                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC2H                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-5A                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-5B                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-5D                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-6-4                    | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-6-42                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-6-46                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC3-6-54                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC402                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC403                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC451                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC461                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC4751                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| PPDC4752                     | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| PPDC510                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPDC551                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC562                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC602                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC803                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC804                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC833                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC854A/B                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDC861A/B                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPDR831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPFIL3-6-73                  | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPFIL401A/B                  | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSB831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSBDR3-6-92                 | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF531                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF543                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PPSF807                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPSF837                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPVE13                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF3-6-70                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF3-6-75                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF401                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF403                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF413                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF414                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF504                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF601                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF603                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF604                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF801                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF803                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF804                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF813                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF831                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF833                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF834                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| PPWF843                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Chapter 115 Division</b> | <b>Combustion Exhaust</b> | <b>Vent Type</b> | <b>Total Uncontrolled VOC Weight</b> | <b>Combined 24-Hour VOC Weight</b> | <b>VOC Concentration</b> | <b>VOC Concentration or Emission Rate at Maximum Operating Conditions</b> |
|------------------------------|--------------------------|-----------------------------|---------------------------|------------------|--------------------------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------|
| PROPROFIN7                   | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| REGVVENT                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| RGTO-VENT                    | R5121-CAM                | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| RHBD115                      | R5121-01                 | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| RHBD306                      | R5121-01                 | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| SGUANAL                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| SGUD1013                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| SPUVENT                      | R5121-04                 | NO                          | NO                        | REGVAPPL         |                                      |                                    | 612-                     | YES                                                                       |
| T0007OH                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| T0017OH                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| T0071OH                      | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| TDUF501                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| TDUF507                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               |                          | YES                                                                       |
| TDUVE01                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| TK0550A                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| TK0550B                      | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| TK0560                       | R5121                    | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| TO3645VENT                   | R5121-03                 | NO                          | NO                        | REGVAPPL         |                                      |                                    |                          |                                                                           |
| UCOD0002                     | R5121                    | NO                          | NO                        | DISTOPER         |                                      |                                    |                          |                                                                           |
| VE01LIN8                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |
| VE02BAPP                     | R5121                    | NO                          | NO                        | REGVAPPL         |                                      | 100-                               | 612-                     | YES                                                                       |

| <b>Emission Point<br/>ID No.</b> | <b>SOP/GOP<br/>Index No.</b> | <b>Chapter 115<br/>Division</b> | <b>Combustion<br/>Exhaust</b> | <b>Vent Type</b> | <b>Total<br/>Uncontrolled<br/>VOC Weight</b> | <b>Combined<br/>24-Hour<br/>VOC Weight</b> | <b>VOC<br/>Concentration</b> | <b>VOC<br/>Concentration or<br/>Emission Rate at<br/>Maximum<br/>Operating<br/>Conditions</b> |
|----------------------------------|------------------------------|---------------------------------|-------------------------------|------------------|----------------------------------------------|--------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------|
| VE02LIN8                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       | 612-                         | YES                                                                                           |
| VEFINISH                         | R5121                        | NO                              | NO                            | REGVAPPL         |                                              | 100-                                       | 612-                         | YES                                                                                           |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 4)**  
**Federal Operating Permit Program**  
**Table 2b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Vent Gas Control**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| AXUT420               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| AXUT430               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| AXUT440               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| BAPPD4403             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPD4503             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPD4755A            | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPD5141             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPD8757             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPE4742             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPE6143             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPE7143             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPT5141             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPT6141             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BAPPT7141             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |



| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| BLINEVE01             | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| BLINEVE02             | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| BLINEVE03             | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| BLINEVE04             | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| BPUD271               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BPUD272               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| BPUR201               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| BPUR202               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| BPUT201               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| C1INVT                | R5121         | NONE                          |            | FLARE               | FS 12                 |
| C1OBVT                | R5121         | NONE                          |            | FLARE               | FS 12                 |
| CD0017PC              | R5121         | NONE                          |            | FLARE               | FS 12                 |
| CD9A                  | R5121         | NONE                          |            | FLARE               | FS12                  |
| D0039VT               | R5121         | NONE                          |            | FLARE               | FS 12                 |
| D0111VT               | R5121         | NONE                          |            | FLARE               | FS 12                 |
| D0315PC               | R5121         | NONE                          |            | FLARE               | FS 12                 |
| D-2046                | R5121-1       | NONE                          |            | OTHER               | MPUF2074              |
| D-2055                | R5121-1       | NONE                          |            | OTHER               | MPUF2074              |
| D5111                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| D6111                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| D7111                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| E4742                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| FHBVE01               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |

| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| FHBVE03               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE04               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE05               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE06               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE07               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE08               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE09               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FHBVE11               | R5121         | NONE                          |            | VAPCOM              | RGTO                  |
| FS09-VENT             | R5121-CAM     | NONE                          |            | FLARE               | FS09, FS23, FS24      |
| FS12-VENT             | R5121-CAM     | NONE                          |            | FLARE               | FS12                  |
| FS23-VENT             | R5121-CAM     | NONE                          |            | FLARE               | FS09, FS23, FS24      |
| FS24-VENT             | R5121-CAM     | NONE                          |            | FLARE               | FS09, FS23, FS24      |
| FS30-VENT             | R5121-CAM     | NONE                          |            | FLARE               | FS30                  |
| FSD7                  | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| IAUD830               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| J541VT                | R5121         | NONE                          |            | FLARE               | FS12                  |
| LPUD303               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| LPUT620               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| NRUCOL1               | R5121         | NONE                          |            | FLARE               | FS09, FS23, FS24      |
| NRUCOL1A              | R5121         | NONE                          |            | FLARE               | FS09/FS23/FS24        |
| NRUT12                | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| NWCD0106              | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PAUT330               | R5121         | NONE                          |            | FLARE               | FS 9 23, 24           |

| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| PCUD122AB             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD122CD             | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD123A              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD123C              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD124A              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD124B              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD126A              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUD126B              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUE3                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PCUT110               | 115.121-1     | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PCUT110               | 115.121-2     | NONE                          |            | OTHER               | FUEL GAS              |
| PFUC501               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PFUD2                 | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PFUD301               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PFUD501               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PFUD512               | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PPB5121               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PPB6121               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PPD5501               | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| PPDC4751              | R5121         | NONE                          |            | OTHER               | FUEL GAS              |
| PPDC4752              | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |
| RGTO-VENT             | R5121-CAM     | NONE                          |            | DIRFLM              | RGTO                  |
| RHBD115               | R5121-01      | NONE                          |            | FLARE               | FS12                  |

| Emission Point ID No. | SOP Index No. | Alternate Control Requirement | ACR ID No. | Control Device Type | Control Device ID No. |
|-----------------------|---------------|-------------------------------|------------|---------------------|-----------------------|
| RHBD306               | R5121-01      | NONE                          |            | FLARE               | FS12                  |
| T0007OH               | R5121         | NONE                          |            | FLARE               | FS 12                 |
| T0017OH               | R5121         | NONE                          |            | FLARE               | FS 12                 |
| T0071OH               | R5121         | NONE                          |            | FLARE               | FS12                  |
| TK0550A               | R5121         | NONE                          |            | OTHER               | CASRHB, CASRHB2       |
| TK0550B               | R5121         | NONE                          |            | OTHER               | CASRHB, CASRHB2       |
| TK0560                | R5121         | NONE                          |            | OTHER               | CASRHB, CASRHB2       |
| TO3645VENT            | R5121-03      | NONE                          |            | DIRFLM              | TO3645                |
| UCOD0002              | R5121         | NONE                          |            | FLARE               | FS 9, 23, 24          |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 5)**  
**Federal Operating Permit Program**  
**Table 2c: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)**  
**Subchapter B: Vent Gas Control**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Total Design Capacity | Flow Rate/Concentration | 40 CFR Part 60,<br>Subpart NNN<br>Requirements | 40 CFR Part 60,<br>Subpart RRR<br>Requirements |
|-----------------------|---------------|-----------------------|-------------------------|------------------------------------------------|------------------------------------------------|
| NRUCOL1               | R5121         | 1100-                 | 500+                    |                                                |                                                |
| NRUCOL1A              | R5121         | 1100+                 | 500+                    |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |
|                       |               |                       |                         |                                                |                                                |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
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**Federal Operating Permit Program**

**Table 6a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic  
Organic Chemical Manufacturing Industry for Process Vents  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Overlap | Group 1 | Regulation | HAP Concentration | Flow Rate | Electing Control | NSPS TRE Index Value | MACT TRE Index Value | Plant Type |
|-----------------------|---------------|---------|---------|------------|-------------------|-----------|------------------|----------------------|----------------------|------------|
| AXUT420               | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| AXUT430               | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| AXUT440               | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC11                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| NRUC2                 | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC2A                | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC3                 | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC3B                | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC5                 | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC6                 | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC7                 | 63G           | NNN     | YES     |            |                   |           |                  |                      |                      |            |
| NRUC8                 | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |

| Emission Point ID No. | SOP Index No. | Overlap | Group 1 | Regulation | HAP Concentration | Flow Rate | Electing Control | NSPS TRE Index Value | MACT TRE Index Value | Plant Type |
|-----------------------|---------------|---------|---------|------------|-------------------|-----------|------------------|----------------------|----------------------|------------|
| NRUC9A                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| NRUC9B                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| NRUC9C                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| NRUCOL1               | 63G           | NONE    | YES     | 63G        |                   |           | 113A1            |                      |                      |            |
| NRUCOL1A              | 63G           | NONE    | YES     | 63G        |                   |           | 113A1            |                      |                      |            |
| PAUT310               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PAUT320               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PAUT330               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PAUT360               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PAUT361               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PAUT430               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PFUC501               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PFUT520               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| PFUT530               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| TDUC2B                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| TDUC3A                | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |
| TDUT501               | 63G           | NONE    | YES     |            |                   |           |                  |                      |                      |            |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 14)**

**Federal Operating Permit Program**

**Table 6b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic  
Organic Chemical Manufacturing Industry for Process Vents  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Control Device | Control Device ID No. | Halogenated | TRE for Halogenated Vent Stream | Halogen Reduction Device | Installation Date | Performance Test |
|-----------------------|---------------|----------------|-----------------------|-------------|---------------------------------|--------------------------|-------------------|------------------|
| AXUT420               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| AXUT430               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| AXUT440               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC11                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC2                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC2A                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC3                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC3B                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC5                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC6                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |



| Emission Point ID No. | SOP Index No. | Control Device | Control Device ID No. | Halogenated | TRE for Halogenated Vent Stream | Halogen Reduction Device | Installation Date | Performance Test |
|-----------------------|---------------|----------------|-----------------------|-------------|---------------------------------|--------------------------|-------------------|------------------|
| NRUC7                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC8                 | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC9A                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC9B                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUC9C                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| NRUCOL1               | 63G           | FLARE          | FS09, FS23, FS24      | NO          |                                 |                          |                   | YES              |
| NRUCOL1A              | 63G           | FLARE          | FS09/FS23/FS24        | NO          |                                 |                          |                   | YES              |
| PAUT310               | 63G           | FLARE          | FS9, 23, 24           | NO          |                                 |                          |                   | YES              |
| PAUT320               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PAUT330               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PAUT360               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PAUT361               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PAUT430               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PFUC501               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| PFUT520               | 63G           | FLARE          | FS09, FS23, FS24      | NO          |                                 |                          |                   |                  |
| PFUT530               | 63G           | FLARE          | FS09, FS23, FS24      | NO          |                                 |                          |                   |                  |
| TDUC2B                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| TDUC3A                | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |
| TDUT501               | 63G           | FLARE          | FS 9, 23, 24          | NO          |                                 |                          |                   | YES              |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**

TCEQ - 10046 (APD-ID50v2, Revised 11/22) OP-UA15

This form is for use by facilities subject to air quality permit requirements and may be revised periodically. (Title V Release 11/22)

**Form OP-UA15 (Page 15)**  
**Federal Operating Permit Program**  
**Table 6c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic**  
**Organic Chemical Manufacturing Industry for Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Alternate Monitoring Parameters (AMP) | AMP ID No. | Continuous Monitoring | Continuous Monitoring Alt ID No. | Bypass Lines | Flow Indicator |
|-----------------------|---------------|---------------------------------------|------------|-----------------------|----------------------------------|--------------|----------------|
| AXUT420               | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| AXUT430               | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| AXUT440               | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC11                | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC2                 | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC2A                | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC3                 | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC3B                | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC5                 | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC6                 | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |
| NRUC7                 | 63G           | NO                                    |            | NOALT                 |                                  | YES          | NO             |

| <b>Emission Point<br/>ID No.</b> | <b>SOP Index No.</b> | <b>Alternate<br/>Monitoring<br/>Parameters (AMP)</b> | <b>AMP ID No.</b> | <b>Continuous<br/>Monitoring</b> | <b>Continuous<br/>Monitoring<br/>Alt ID No.</b> | <b>Bypass Lines</b> | <b>Flow Indicator</b> |
|----------------------------------|----------------------|------------------------------------------------------|-------------------|----------------------------------|-------------------------------------------------|---------------------|-----------------------|
| NRUC8                            | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| NRUC9A                           | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| NRUC9B                           | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| NRUC9C                           | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| NRUCOL1                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| NRUCOL1A                         | 63G                  | NO                                                   |                   | NOALT                            |                                                 | NO                  |                       |
| PAUT310                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PAUT320                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PAUT330                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PAUT360                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PAUT361                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PAUT430                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PFUC501                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PFUT520                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| PFUT530                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| TDUC2B                           | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| TDUC3A                           | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |
| TDUT501                          | 63G                  | NO                                                   |                   | NOALT                            |                                                 | YES                 | NO                    |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
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**Federal Operating Permit Program**

**Table 8a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:  
Group I Polymers and Resins, Continuous Front-end Process Vents  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Vent Stream Type | Routed to Recovery | Stream Group Status | HAP Concentration | Flow Rate | TRE Index Value | Halogenated |
|-----------------------|---------------|------------------|--------------------|---------------------|-------------------|-----------|-----------------|-------------|
| C1INVT                | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| CD0017PC              | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| D0039VT               | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| D0315PC               | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| D740/D740B            | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| J541VT                | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| T0007OH               | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
| T0071OH               | 63U           | CONT             |                    | GRP1                |                   |           |                 | NO          |
|                       |               |                  |                    |                     |                   |           |                 |             |
|                       |               |                  |                    |                     |                   |           |                 |             |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 18)**  
**Federal Operating Permit Program**  
**Table 8b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:**  
**Group I Polymers and Resins, Continuous Front-end Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.+ | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Emission Point ID No. | SOP Index No. | Existing Source | Product Type and Production Process | Meeting Process Vent Requirements | Halogen Reduction Device | Installation Date | Control Device | Control Device ID No. |
|-----------------------|---------------|-----------------|-------------------------------------|-----------------------------------|--------------------------|-------------------|----------------|-----------------------|
| C1INVT                | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| CD0017PC              | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| D0039VT               | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| D0315PC               | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| D740/D740B            | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| J541VT                | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS12                  |
| T0007OH               | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS 12                 |
| T0071OH               | 63U           |                 |                                     |                                   |                          |                   | FLARE          | FS12                  |
|                       |               |                 |                                     |                                   |                          |                   |                |                       |
|                       |               |                 |                                     |                                   |                          |                   |                |                       |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 19)**  
**Federal Operating Permit Program**  
**Table 8c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart U: National Emission Standards for Hazardous Air Pollutant Emissions:**  
**Group I Polymers and Resins, Continuous Front-end Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Performance Test | Alternate Monitoring Parameters (AMP) | AMP ID No. | Alternate Continuous Monitoring Requested | Alt Continuous Monitoring ID No. | Bypass Lines | Flow Indicator |
|-----------------------|---------------|------------------|---------------------------------------|------------|-------------------------------------------|----------------------------------|--------------|----------------|
| C1INVT                | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| CD0017PC              | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| D0039VT               | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| D0315PC               | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| D740/D740B            | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| J541VT                | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| T0007OH               | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
| T0071OH               | 63U           | NO               | NO                                    |            | NO                                        |                                  | NO           |                |
|                       |               |                  |                                       |            |                                           |                                  |              |                |
|                       |               |                  |                                       |            |                                           |                                  |              |                |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 30)**

**Federal Operating Permit Program**

**Table 12a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter H, Division 1: Highly-Reactive Volatile Organic Compounds-Vent Gas Control  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | HRVOC Concentration | Max Flow Rate | Exempt Date | Vent Gas Stream Control |
|-----------------------|---------------|---------------------|---------------|-------------|-------------------------|
| ANALYZE               | R5711         | NO                  | YES           | YES         |                         |
| FS30-VENT             | R115H         | NO                  | NO            |             | FLARE                   |
| HRVOCATMVT            | R115H         | NO                  | NO            |             | UNCON                   |
| HRVOCVENTS            | R5720         | NO                  | NO            |             | FLARE                   |
| IBUF730A/B/C          | R115H         | NO                  | NO            |             | UNCON                   |
| LAUF3629A             | R115H         | NO                  | NO            |             | OTHCD                   |
| MPUF2074              | R115H         | NO                  | NO            |             | UNCON                   |
| NRUF1                 | R115H         | NO                  | NO            |             | UNCON                   |
| NRUF1A                | R115H         | NO                  | NO            |             | UNCON                   |
| NRUF6                 | R115H         | NO                  | NO            |             | UNCON                   |

| Emission Point ID No. | SOP Index No. | HRVOC Concentration | Max Flow Rate | Exempt Date | Vent Gas Stream Control |
|-----------------------|---------------|---------------------|---------------|-------------|-------------------------|
| NRUF9A/B              | R115H         | NO                  | NO            |             | UNCON                   |
| NRUH2/3               | R115H         | NO                  | NO            |             | UNCON                   |
| PAUF311               | R115H         | NO                  | NO            |             | UNCON                   |
| PAUF321               | R115H         | NO                  | NO            |             | UNCON                   |
| PFUF501               | R115H         | NO                  | NO            |             | UNCON                   |
| PFUF510               | R115H         | NO                  | NO            |             | UNCON                   |
| PFUF530               | R115H         | NO                  | NO            |             | UNCON                   |
| SPUF3629B             | R115H         | NO                  | NO            |             | OTHCD                   |
| TDUF501               | R115H         | NO                  | NO            |             | UNCON                   |
| TDUF507               | R115H         | NO                  | NO            |             | UNCON                   |
| TO3645VENT            | R5720-02      | NO                  | NO            |             | OTHCD                   |



**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 31)**

**Federal Operating Permit Program**

**Table 12b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)  
Subchapter H, Division 1: Highly-Reactive Volatile Organic Compounds-Vent Gas Control  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | AM | AM ID No. | Minor Modification | Minor Modification ID No. | Process Knowledge | Waived Testing | Testing Requirements |
|-----------------------|---------------|----|-----------|--------------------|---------------------------|-------------------|----------------|----------------------|
| HRVOCATMVT            | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| HRVOCVENTS            | R5720         | NO |           | NO                 |                           | YES               | NO             | CEMS                 |
| IBUF730A/B/C          | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| LAUF3629A             | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| MPUF2074              | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| NRUF1                 | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| NRUF1A                | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| NRUF6                 | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| NRUF9A/B              | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |
| NRUH2/3               | R115H         | NO |           | NO                 |                           | YES               | NO             | 725A                 |

| <b>Emission Point<br/>ID No.</b> | <b>SOP Index No.</b> | <b>AM</b> | <b>AM ID No.</b> | <b>Minor<br/>Modification</b> | <b>Minor<br/>Modification<br/>ID No.</b> | <b>Process<br/>Knowledge</b> | <b>Waived Testing</b> | <b>Testing<br/>Requirements</b> |
|----------------------------------|----------------------|-----------|------------------|-------------------------------|------------------------------------------|------------------------------|-----------------------|---------------------------------|
| PAUF311                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| PAUF321                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| PFUF501                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| PFUF510                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| PFUF530                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| SPUF3629B                        | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| TDUF501                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| TDUF507                          | R115H                | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| TO3645VENT                       | R5720-02             | NO        |                  | NO                            |                                          | YES                          | NO                    | 725A                            |
| FS30-VENT                        | R115H                | NO        |                  | YES                           | 9/14/2018                                |                              |                       |                                 |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 32)**  
**Federal Operating Permit Program**

**Table 13a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**  
**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Emission Standard | Comb Device | 95% Scrubber | PERF Test | Negative Pressure | Bypass Line |
|-----------------------|---------------|-------------------|-------------|--------------|-----------|-------------------|-------------|
| BPUT201               | 63FFFF-CPVG2  | GRP2              |             |              |           |                   |             |
| BPUT202               | 63FFFF-CPVG2  | GRP2              |             |              |           |                   |             |
| C-2015                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| D-2037                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| D-2038                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| D-2046                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| D-2046                | 63FFFF-CPV2   | CD98              |             |              |           |                   |             |
| D-2046                | 63FFFF-CPV3   | CDPMV             |             |              |           |                   |             |
| D-2067                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| D-2074                | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| E-2052                | 63FFFF-CPV2   | CD98              |             |              |           |                   |             |

| Emission Point ID No. | SOP Index No. | Emission Standard | Comb Device | 95% Scrubber | PERF Test | Negative Pressure | Bypass Line |
|-----------------------|---------------|-------------------|-------------|--------------|-----------|-------------------|-------------|
| E-2052                | 63FFFF-CPV3   | CDPMV             |             |              |           |                   |             |
| FS30-VENT             | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| IAUD830               | 63FFFF        | CD98              |             |              |           |                   |             |
| IAUT820               | 63FFFF        | CD98              |             |              |           |                   |             |
| IAUT850               | 63FFFF        | CD98              |             |              |           |                   |             |
| IAUT860               | 63FFFF        | CD98              |             |              |           |                   |             |
| LAUF3629A             | 63FFFF-CPV4   | CDPMV             |             |              |           |                   |             |
| LPUD303               | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| LPUR601/602           | 63FFFF-CPVG2  | GRP2              |             |              |           |                   |             |
| MPUD2028              | 63FFFF-CPVG2  | GRP2              |             |              |           |                   |             |
| PPB5121               | 63FFFF        | CD98              |             |              |           |                   |             |
| PPB6121               | 63FFFF        | CD98              |             |              |           |                   |             |
| PPD4751               | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| PPD5450               | 63FFFF        | CD98              |             |              |           |                   |             |
| PPD5451               | 63FFFF        | CD98              |             |              |           |                   |             |
| PPD8751               | 63FFFF-CPV1   | BLWFLR            |             |              |           |                   |             |
| R-2025                | 63FFFF-CPV2   | CD98              |             |              |           |                   |             |
| R-2025                | 63FFFF-CPV3   | CDPMV             |             |              |           |                   |             |
| SPUF3629B             | 63FFFF-CPV4   | CDPMV             |             |              |           |                   |             |

| <b>Emission Point<br/>ID No.</b> | <b>SOP Index No.</b> | <b>Emission Standard</b> | <b>Comb Device</b> | <b>95% Scrubber</b> | <b>PERF Test</b> | <b>Negative Pressure</b> | <b>Bypass Line</b> |
|----------------------------------|----------------------|--------------------------|--------------------|---------------------|------------------|--------------------------|--------------------|
| SPUVENT                          | 63FFFF-CPVG2         | GRP2                     |                    |                     |                  |                          |                    |
| T-2011                           | 63FFFF-CPV2          | CD98                     |                    |                     |                  |                          |                    |
| T-2011                           | 63FFFF-CPV3          | CDPMV                    |                    |                     |                  |                          |                    |
| TO3645VENT                       | 63FFFF-CPV3          | CDPMV                    |                    |                     |                  |                          |                    |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 33)**

**Federal Operating Permit Program**

**Table 13b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**  
**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Recovery Device | Existing Source | TRE Index Threshold | Alt 63SS Mon Parameters | Alt 63SS Mon ID | SS Device Type | SS Device ID | Water |
|-----------------------|---------------|-----------------|-----------------|---------------------|-------------------------|-----------------|----------------|--------------|-------|
| BPUT201               | 63FFFF-CPVG2  | NO              |                 |                     |                         |                 |                |              |       |
| BPUT202               | 63FFFF-CPVG2  | NO              |                 |                     |                         |                 |                |              |       |
| LPUR601/602           | 63FFFF-CPVG2  | NO              |                 |                     |                         |                 |                |              |       |
| MPUD2028              | 63FFFF-CPVG2  | NO              |                 |                     |                         |                 |                |              |       |
| SPUVENT               | 63FFFF-CPVG2  | NO              |                 |                     |                         |                 |                |              |       |
| TO3645VENT            | 63FFFF-CPV3   |                 |                 |                     |                         |                 |                |              |       |
|                       |               |                 |                 |                     |                         |                 |                |              |       |
|                       |               |                 |                 |                     |                         |                 |                |              |       |
|                       |               |                 |                 |                     |                         |                 |                |              |       |
|                       |               |                 |                 |                     |                         |                 |                |              |       |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**  
**Form OP-UA15 (Page 34)**  
**Federal Operating Permit Program**

**Table 13c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**  
**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Designated GRP1 | Alt 63SS Mon Parameters | Alt 63SS Mon ID | SS Device Type | SS Device ID | Water |
|-----------------------|---------------|-----------------|-------------------------|-----------------|----------------|--------------|-------|
| TO3645VENT            | 63FFFF-CPV3   |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |
|                       |               |                 |                         |                 |                |              |       |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes  
Form OP-UA15 (Page 35)**

**Federal Operating Permit Program**

**Table 13d: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)  
Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:  
Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents  
Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Emission Point ID No. | SOP Index No. | Designated GRP1 | Designated HAL | Determined HAL | Prior Eval | Assessment Waiver | Assessment Waiver ID | Negative Pressure | Bypass Line |
|-----------------------|---------------|-----------------|----------------|----------------|------------|-------------------|----------------------|-------------------|-------------|
| C-2015                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| D-2037                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| D-2038                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| D-2046                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| D-2067                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| D-2074                | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| FS30-VENT             | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| LPUD303               | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | CARSEAL     |
| PPD4751               | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| PPD8751               | 63FFFF-CPV1   | YES             | NO             | NO             | NO         | NO                |                      | NO                | NONE        |
| TO3645VENT            | 63FFFF-CPV3   |                 |                |                |            |                   |                      |                   |             |



**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**

**Form OP-UA15 (Page 36)**

**Federal Operating Permit Program**

**Table 13e: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**

**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**

**Texas Commission on Environmental Quality**

| Date              | Permit No.   | Regulated Entity No. |
|-------------------|--------------|----------------------|
| <b>01/29/2025</b> | <b>O2269</b> | <b>RN102574803</b>   |

| Emission Point ID No. | SOP Index No. | Designated GRP1 | Small Device | 1257A1 | 1257A1 Device Type | 1257A1 Device ID | Alt 63SS Mon Parameters | Alt 63SS Mon ID | CEMS | SS Device Type | SS Device ID |
|-----------------------|---------------|-----------------|--------------|--------|--------------------|------------------|-------------------------|-----------------|------|----------------|--------------|
| D-2046                | 63FFFF-CPV2   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| D-2046                | 63FFFF-CPV3   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| E-2052                | 63FFFF-CPV2   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| E-2052                | 63FFFF-CPV3   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| IAUD830               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| IAUT820               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| IAUT850               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| IAUT860               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| LAUF3629A             | 63FFFF-CPV4   | YES             | NO           |        |                    |                  | NO                      |                 | NO   | BPH44+         | LAUF3629A    |
| PPB5121               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |

| Emission Point ID No. | SOP Index No. | Designated GRP1 | Small Device | 1257A1 | 1257A1 Device Type | 1257A1 Device ID | Alt 63SS Mon Parameters | Alt 63SS Mon ID | CEMS | SS Device Type | SS Device ID |
|-----------------------|---------------|-----------------|--------------|--------|--------------------|------------------|-------------------------|-----------------|------|----------------|--------------|
| PPB6121               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| PPD5450               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| PPD5451               | 63FFFF        | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          |              |
| R-2025                | 63FFFF-CPV2   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| R-2025                | 63FFFF-CPV3   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| SPUF3629B             | 63FFFF-CPV4   | YES             | NO           |        |                    |                  | NO                      |                 | NO   | BPH44+         | SPUF3629B    |
| T-2011                | 63FFFF-CPV2   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| T-2011                | 63FFFF-CPV3   | YES             | YES          | NO     |                    |                  | NO                      |                 | NO   | BPH44-         | MPUF2074     |
| TO3645VENT            | 63FFFF-CPV3   | YES             | NO           |        |                    |                  | NO                      |                 | NO   | INCIN          | TO3645       |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**

**Form OP-UA15 (Page 37)**

**Federal Operating Permit Program**

**Table 13f: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**

**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**

**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Emission Point ID No.</b> | <b>SOP Index No.</b> | <b>Meets 63.988(b)(2)</b> | <b>Water</b> | <b>Designated HAL</b> | <b>Determined HAL</b> |
|------------------------------|----------------------|---------------------------|--------------|-----------------------|-----------------------|
| D-2046                       | 63FFFF-CPV2          | NO                        |              | NO                    | NO                    |
| D-2046                       | 63FFFF-CPV3          | NO                        |              | NO                    | NO                    |
| E-2052                       | 63FFFF-CPV2          | NO                        |              | NO                    | NO                    |
| E-2052                       | 63FFFF-CPV3          | NO                        |              | NO                    | NO                    |
| IAUD830                      | 63FFFF               | NO                        |              | NO                    | NO                    |
| IAUT820                      | 63FFFF               | NO                        |              | NO                    | NO                    |
| IAUT850                      | 63FFFF               | NO                        |              | NO                    | NO                    |
| IAUT860                      | 63FFFF               | NO                        |              | NO                    | NO                    |
| LAUF3629A                    | 63FFFF-CPV4          | NO                        |              | NO                    | NO                    |
| PPB5121                      | 63FFFF               | NO                        |              | NO                    | NO                    |

| Emission Point ID No. | SOP Index No. | Meets 63.988(b)(2) | Water | Designated HAL | Determined HAL |
|-----------------------|---------------|--------------------|-------|----------------|----------------|
| PPB6121               | 63FFFF        | NO                 |       | NO             | NO             |
| PPD5450               | 63FFFF        | NO                 |       | NO             | NO             |
| PPD5451               | 63FFFF        | NO                 |       | NO             | NO             |
| R-2025                | 63FFFF-CPV2   | NO                 |       | NO             | NO             |
| R-2025                | 63FFFF-CPV3   | NO                 |       | NO             | NO             |
| SPUF3629B             | 63FFFF-CPV4   | NO                 |       | NO             | NO             |
| T-2011                | 63FFFF-CPV2   | NO                 |       | NO             | NO             |
| T-2011                | 63FFFF-CPV3   | NO                 |       | NO             | NO             |
| TO3645VENT            | 63FFFF-CPV3   | NO                 |       | NO             | NO             |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**

**Form OP-UA15 (Page 38)**

**Federal Operating Permit Program**

**Table 13g: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**

**Miscellaneous Organic Chemical Manufacturing - Continuous Process Vents**

**Texas Commission on Environmental Quality**

| Date              | Permit No.   | Regulated Entity No. |
|-------------------|--------------|----------------------|
| <b>01/29/2025</b> | <b>O2269</b> | <b>RN102574803</b>   |

| Emission Point ID No. | SOP Index No. | HAL Device Type | HAL Device ID | Prior Eval | Assessment Waiver | Assessment Waiver ID | Formaldehyde | Negative Pressure | Bypass Line |
|-----------------------|---------------|-----------------|---------------|------------|-------------------|----------------------|--------------|-------------------|-------------|
| D-2046                | 63FFFF-CPV2   | NONE            |               | NO         | NO                |                      | NO           | NO                | NONE        |
| D-2046                | 63FFFF-CPV3   | NONE            |               | NO         | NO                |                      | NO           | NO                | NONE        |
| E-2052                | 63FFFF-CPV2   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| E-2052                | 63FFFF-CPV3   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| IAUD830               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| IAUT820               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| IAUT850               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| IAUT860               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| LAUF3629A             | 63FFFF-CPV4   | NONE            |               | NO         | NO                |                      | NO           | NO                | NONE        |
| PPB5121               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |

| Emission Point ID No. | SOP Index No. | HAL Device Type | HAL Device ID | Prior Eval | Assessment Waiver | Assessment Waiver ID | Formaldehyde | Negative Pressure | Bypass Line |
|-----------------------|---------------|-----------------|---------------|------------|-------------------|----------------------|--------------|-------------------|-------------|
| PPB6121               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| PPD5450               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| PPD5451               | 63FFFF        |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| R-2025                | 63FFFF-CPV2   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| R-2025                | 63FFFF-CPV3   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| SPUF3629B             | 63FFFF-CPV4   | NONE            |               | NO         | NO                |                      | NO           | NO                | NONE        |
| T-2011                | 63FFFF-CPV2   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| T-2011                | 63FFFF-CPV3   |                 |               | NO         | NO                |                      | NO           | NO                | NONE        |
| TO3645VENT            | 63FFFF-CPV3   | NONE            |               | NO         | NO                |                      | NO           | NO                | NONE        |

**Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes**

**Form OP-UA15 (Page 39)**

**Federal Operating Permit Program**

**Table 14: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**

**Subpart FFFF: National Emission Standards for Hazardous Air Pollutants:**

**Miscellaneous Organic Chemical Manufacturing - Batch Process Vents**

**Texas Commission on Environmental Quality**

| <b>Date</b>       | <b>Permit No.</b> | <b>Regulated Entity No.</b> |
|-------------------|-------------------|-----------------------------|
| <b>01/29/2025</b> | <b>O2269</b>      | <b>RN102574803</b>          |

| <b>Emission Point<br/>ID No.</b> | <b>SOP Index No.</b> | <b>Comb Device</b> | <b>95% Scrubber</b> | <b>PERF Test</b> | <b>Negative Pressure</b> | <b>Bypass Line</b> |
|----------------------------------|----------------------|--------------------|---------------------|------------------|--------------------------|--------------------|
| PPD5113A                         | 63FFFF               | YES                | NO                  | NO               | NO                       | NONE               |
| PPD5113B                         | 63FFFF               | YES                | NO                  | NO               | NO                       | NONE               |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |
|                                  |                      |                    |                     |                  |                          |                    |

**Solvent Degreasing Machine Attributes**  
**Form OP-UA16 (Page 1) Federal Operating Permit Program**  
**Table 1: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115) Subchapter E: Solvent Using Processes**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP/GOP Index No. | Solvent Degreasing Machine Type | Alternate Control Requirement (ACR) | Alternate Control Requirement ID No. | Solvent Sprayed | Solvent Vapor Pressure | Solvent Heated | Parts Larger Than Drainage | Drainage Area | Disposal in Enclosed Containers | Solvent/Air Interface Area | Emission Control Combinations |
|-------------|-------------------|---------------------------------|-------------------------------------|--------------------------------------|-----------------|------------------------|----------------|----------------------------|---------------|---------------------------------|----------------------------|-------------------------------|
| DEGBAPPMEC  | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   |                | NO                         | 16-           | YES                             |                            |                               |
| DEGBCCOMP   | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   |                | NO                         | 16-           | YES                             |                            |                               |
| DEGBPBMEC   | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   |                | NO                         | 16-           | YES                             |                            |                               |
| DEGBTCPMAC  | R5412             | COLD                            | NO                                  |                                      | NO              | 0.6-                   |                | NO                         | 16-           | YES                             |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |
|             |                   |                                 |                                     |                                      |                 |                        |                |                            |               |                                 |                            |                               |



**Solvent Degreasing Machine Attributes**  
**Form OP-UA16 (Page 2) Federal Operating Permit Program**  
**Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart T: National Emission Standards for Halogenated Solvent Cleaning**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit ID No. | SOP Index No. | Solvent Type | Solvent Cleaning Machine Type | Equivalent Methods of Control | EMOC ID No. | Construction Date | Cold Cleaning Emission Control | Cold Cleaning Work Practice Alternative | Cold Cleaning Work Practice Alternative ID No. | Additional Emission Control |
|-------------|---------------|--------------|-------------------------------|-------------------------------|-------------|-------------------|--------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------|
| DEGBPBMEC   | 63T           | NO           |                               |                               |             |                   |                                |                                         |                                                |                             |
| DEGBAPPMEC  | 63T           | NO           |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |
|             |               |              |                               |                               |             |                   |                                |                                         |                                                |                             |

**Treatment Process Attributes**  
**Form OP-UA58 (Page 2)**  
**Federal Operating Permit Program**  
**Table 2a: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart FF: National Emission Standard for Benzene Waste Operations (Treatment Processes)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Process ID No. | SOP Index No. | AMOC | AMOC ID No. | Complying With<br>§ 61.342(e) | Stream<br>Combination | Benzene<br>Removal | Process or<br>Stream<br>Exemption | Treatment<br>Process<br>Engineering<br>Calculations |
|----------------|---------------|------|-------------|-------------------------------|-----------------------|--------------------|-----------------------------------|-----------------------------------------------------|
| BHUT150        | 61FF          | NO   |             | NO                            | NO                    | 99+                | NO                                | YES                                                 |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |
|                |               |      |             |                               |                       |                    |                                   |                                                     |

**Treatment Process Attributes**  
**Form OP-UA58 (Page 3)**  
**Federal Operating Permit Program**  
**Table 2b: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart FF: National Emission Standard for Benzene Waste Operations (Treatment Processes)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Process ID No. | SOP Index No. | Continuous Monitoring | Treatment Stream Unit Exemption | Openings | Fuel Gas System | Less Than Atmospheric | Closed-Vent System And Control Device | AMOC | AMOC ID No. |
|----------------|---------------|-----------------------|---------------------------------|----------|-----------------|-----------------------|---------------------------------------|------|-------------|
| BHUT150        | 61FF          |                       |                                 | YES      | NO              | NO                    | YES                                   | NO   |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
|                |               |                       |                                 |          |                 |                       |                                       |      |             |
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**Treatment Process Attributes**  
**Form OP-UA58 (Page 4)**  
**Federal Operating Permit Program**  
**Table 2c: Title 40 Code of Federal Regulations Part 61 (40 CFR Part 61)**  
**Subpart FF: National Emission Standard for Benzene Waste Operations (Treatment Processes)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Process ID No. | SOP Index No. | By-Pass Line | By-Pass Line Valve | Control Device Type/Operation | Control Device ID No. | Engineering Calculations | Alternate Monitoring Parameters | Carbon Replacement Interval |
|----------------|---------------|--------------|--------------------|-------------------------------|-----------------------|--------------------------|---------------------------------|-----------------------------|
| BHUT150        | 61FF          | YES          | YES                | FLARE                         | FS 9, 23, 24          |                          |                                 |                             |
|                |               |              |                    |                               |                       |                          |                                 |                             |
|                |               |              |                    |                               |                       |                          |                                 |                             |
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**Treatment Process Attributes**  
**Form OP-UA58 (Page 5)**  
**Federal Operating Permit Program**  
**Table 3a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants**  
**From Synthetic Organic Chemical Manufacturing Industry Wastewater**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
| 01/29/2025 | O2269       | RN102574803          |

| Process ID No. | SOP Index No. | Series of Processes | Hard Piping | Compliance Under Title 40 CFR § 63.138(a)(7)(ii) | Series Design Evaluation | Biological Treatment Process | Wastewater Stream Designation | Wastewater Stream Treatment | Treatment Process Design Evaluation | Performance Test Exemption |
|----------------|---------------|---------------------|-------------|--------------------------------------------------|--------------------------|------------------------------|-------------------------------|-----------------------------|-------------------------------------|----------------------------|
| BHUT150        | 63G           | NO                  |             |                                                  | NO                       | NONBIO                       | 132E                          | STEAM                       |                                     |                            |
|                |               |                     |             |                                                  |                          |                              |                               |                             |                                     |                            |
|                |               |                     |             |                                                  |                          |                              |                               |                             |                                     |                            |
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**Treatment Process Attributes**  
**Form OP-UA58 (Page 6)**  
**Federal Operating Permit Program**  
**Table 3b: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants**  
**From Synthetic Organic Chemical Manufacturing Industry Wastewater**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
|------------|-------------|----------------------|
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| Process ID No. | SOP Index No. | Combustion Process | § 63.145(e) Requirements Elected | Vented To Control | Fuel Gas System | Closed Vent System | By-Pass Lines | Combination of Control Devices | Control Device Type | Control Device ID No. |
|----------------|---------------|--------------------|----------------------------------|-------------------|-----------------|--------------------|---------------|--------------------------------|---------------------|-----------------------|
| BHUT150        | 63G           |                    |                                  | YES               |                 | SUBPTH             | CARSEAL       | NO                             | FLARE               | FS 9, 23, 24          |
|                |               |                    |                                  |                   |                 |                    |               |                                |                     |                       |
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**Treatment Process Attributes**  
**Form OP-UA58 (Page 7)**  
**Federal Operating Permit Program**  
**Table 3c: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)**  
**Subpart G: National Emission Standards for Organic Hazardous Air Pollutants**  
**From Synthetic Organic Chemical Manufacturing Industry Wastewater**  
**Texas Commission on Environmental Quality**

| Date       | Permit No.: | Regulated Entity No. |
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| Process ID No. | SOP Index No. | Compliance With Title 40 CFR § 63.139(c)(1) | Alternate Monitoring Parameters | AMP ID No. | Regeneration | Performance Tests | 95% Reduction Efficiency | Monitoring Options | Continuous Monitoring | Continuous Monitoring ALT ID No. |
|----------------|---------------|---------------------------------------------|---------------------------------|------------|--------------|-------------------|--------------------------|--------------------|-----------------------|----------------------------------|
| BHUT150        | 63G           |                                             | NO                              |            |              |                   |                          | TABLE13            | NOALT                 |                                  |
|                |               |                                             |                                 |            |              |                   |                          |                    |                       |                                  |
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## SECTION 4

# POTENTIALLY APPLICABLE REQUIREMENTS INFORMATION

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This section contains information relating to applicability determinations in the FOP.

### **4.1     Application Area-Wide Applicability Determinations and General Information** ***(Form OP-REQ1)***

This section contains the updated form OP-REQ1.



# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 1)

### Federal Operating Permit Program

### Texas Commission on Environmental Quality

| Date       | Permit No. | Regulated Entity No. |
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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter |                                                                                                                                                                                                                                                                                              |                                                                                                  |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| A. Visible Emissions                                                                                 |                                                                                                                                                                                                                                                                                              |                                                                                                  |
| ◆ 1.                                                                                                 | The application area includes stationary vents constructed on or before January 31, 1972.                                                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 2.                                                                                                 | The application area includes stationary vents constructed after January 31, 1972.<br><i>If the responses to Questions I.A.1 and I.A.2 are both "No," go to Question I.A.6. If the response to Question I.A.1 is "No" and the response to Question I.A.2 is "Yes," go to Question I.A.4.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 3.                                                                                                 | The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 4.                                                                                                 | All stationary vents are addressed on a unit specific basis.                                                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 5.                                                                                                 | Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 6.                                                                                                 | The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).                                                                                                                                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 7.                                                                                                 | The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).                                                                                                                                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 8.                                                                                                 | Emissions from units in the application area include contributions from uncombined water.                                                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 9.                                                                                                 | The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).                                                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 2)

### Federal Operating Permit Program

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                                                                    |                                                                                                                                                                                                          |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)</b>                                            |                                                                                                                                                                                                          |                                                                     |
| <b>B. Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots</b>                                                                               |                                                                                                                                                                                                          |                                                                     |
| 1. Items a - d determine applicability of any of these requirements based on geographical location.                                                                |                                                                                                                                                                                                          |                                                                     |
| ◆                                                                                                                                                                  | a. The application area is located within the city of El Paso.                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆                                                                                                                                                                  | b. The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆                                                                                                                                                                  | c. The application area is located in the portion of Harris County inside the loop formed by Beltway 8.                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆                                                                                                                                                                  | d. The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <i>If there is any "Yes" response to Questions I.B.1.a - d, answer Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "No," go to Section I.C.</i> |                                                                                                                                                                                                          |                                                                     |
| 2. Items a - d determine the specific applicability of these requirements.                                                                                         |                                                                                                                                                                                                          |                                                                     |
| ◆                                                                                                                                                                  | a. The application area is subject to 30 TAC § 111.143.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆                                                                                                                                                                  | b. The application area is subject to 30 TAC § 111.145.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆                                                                                                                                                                  | c. The application area is subject to 30 TAC § 111.147.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆                                                                                                                                                                  | d. The application area is subject to 30 TAC § 111.149.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>C. Emissions Limits on Nonagricultural Processes</b>                                                                                                            |                                                                                                                                                                                                          |                                                                     |
| ◆                                                                                                                                                                  | 1. The application area includes a nonagricultural process subject to 30 TAC § 111.151.                                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                                                                                                                                                                    | 2. The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements.<br><i>If the response to Question I.C.2 is "No," go to Question I.C.4.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                                                                                                                                                                    | 3. All vents from nonagricultural process in the application area are subject to additional monitoring requirements.                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 3)

### Federal Operating Permit Program

### Texas Commission on Environmental Quality

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                         |                                                                                                                                                                                                         |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)</b> |                                                                                                                                                                                                         |                                                                     |
| <b>C. Emissions Limits on Nonagricultural Processes (continued)</b>                                                     |                                                                                                                                                                                                         |                                                                     |
| 4.                                                                                                                      | The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5.                                                                                                                      | The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements.<br><i>If the response to Question I.C.5 is "No," go to Question I.C.7.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6.                                                                                                                      | All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 7.                                                                                                                      | The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 8.                                                                                                                      | The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements.<br><i>If the response to Question I.C.8 is "No," go to Section I.D.</i>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 9.                                                                                                                      | All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>D. Emissions Limits on Agricultural Processes</b>                                                                    |                                                                                                                                                                                                         |                                                                     |
| 1.                                                                                                                      | The application area includes agricultural processes subject to 30 TAC § 111.171.                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>E. Outdoor Burning</b>                                                                                               |                                                                                                                                                                                                         |                                                                     |
| ◆ 1.                                                                                                                    | Outdoor burning is conducted in the application area.<br><i>If the response to Question I.E.1 is "No," go to Section II.</i>                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 2.                                                                                                                    | Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 3.                                                                                                                    | Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 4.                                                                                                                    | Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 4)

### Federal Operating Permit Program

### Texas Commission on Environmental Quality

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| 01/29/2025 | O2269      | RN102574803          |

For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

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| <b>I. Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)</b> |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| <b>E. Outdoor Burning (continued)</b>                                                                                   |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| ◆ 5.                                                                                                                    | Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 6.                                                                                                                    | Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 7.                                                                                                                    | The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>II. Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds</b>                                    |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| <b>A. Temporary Fuel Shortage Plan Requirements</b>                                                                     |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| 1.                                                                                                                      | The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds</b>                         |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| <b>A. Applicability</b>                                                                                                 |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| ◆ 1.                                                                                                                    | The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10.<br><i>See instructions for inclusive counties. If the response to Question III.A.1 is "No," go to Section IV.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>B. Storage of Volatile Organic Compounds</b>                                                                         |                                                                                                                                                                                                                                                                                                                          |                                                                     |
| ◆ 1.                                                                                                                    | The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.                                                                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 5)

### Federal Operating Permit Program

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued) |                                                                                                                                                                                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| C. Industrial Wastewater                                                                             |                                                                                                                                                                                                                                                                |                                                                                                  |
| 1.                                                                                                   | The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140.<br><i>If the response to Question III.C.1 is "No" or "N/A," go to Section III.D.</i>                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 2.                                                                                                   | The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area.<br><i>If the response to Question III.C.2 is "Yes" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.</i>      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 3.                                                                                                   | The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater).<br><i>If the response to Question III.C.3 is "Yes," go to Section III.D.</i>        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 4.                                                                                                   | The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons).<br><i>If the response to Question III.C.4 is "Yes," go to Section III.D.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 5.                                                                                                   | The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 6.                                                                                                   | The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 7.                                                                                                   | The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| D. Loading and Unloading of VOCs                                                                     |                                                                                                                                                                                                                                                                |                                                                                                  |
| ◆ 1.                                                                                                 | The application area includes VOC loading operations.                                                                                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 2.                                                                                                 | The application area includes VOC transport vessel unloading operations.<br><i>For GOP applications, if the responses to Questions III.D.1 - D.2 are "No," go to Section III.E.</i>                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 6)

### Federal Operating Permit Program

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For SOP applications, answer ALL questions unless otherwise directed.

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|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |
| <b>D. Loading and Unloading of VOCs (continued)</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |
| ◆ 3.                                                                                                        | Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |
| ◆ 1.                                                                                                        | The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container.<br><i>If the response to Question III.E.1 is "No," go to Section III.F.</i>                                                                                                                                                                                    | <input type="checkbox"/> YES <input checked="" type="checkbox"/> No |
| ◆ 2.                                                                                                        | Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.                                                                                                                                                                                                                                                  | <input type="checkbox"/> YES <input type="checkbox"/> No            |
| ◆ 3.                                                                                                        | All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent.<br><i>If the response to Question III.E.2 and/or E.3 is "Yes," go to Section III.F.</i>                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 4.                                                                                                        | The application area is located in a covered attainment county as defined in 30 TAC § 115.10.<br><i>If the response to Question III.E.4 is "No," go to Question III.E.9.</i>                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 5.                                                                                                        | Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 6.                                                                                                        | Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 7.                                                                                                        | At facilities located in a covered attainment county other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014.<br><i>If the response to Question III.E.7 is "Yes," go to Section III.F.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |
| <b>E. Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |
| ◆ 8.                                                                                                                                   | At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004.<br><i>If the response to Question III.E.8 is "Yes," go to Section III.F.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 9.                                                                                                                                   | Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 10.                                                                                                                                  | Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 11.                                                                                                                                  | Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.                                                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 12.                                                                                                                                  | At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| <b>F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)</b> |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |
| ◆ 1.                                                                                                                                   | Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

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| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b>                                        |                                                                                                                                                                                                                                                                        |                                                                                                  |
| <b>F. Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)</b> |                                                                                                                                                                                                                                                                        |                                                                                                  |
| ◆ 2.                                                                                                                                               | Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |
| ◆ 3.                                                                                                                                               | Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |
| <b>G. Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities</b>                                            |                                                                                                                                                                                                                                                                        |                                                                                                  |
| ◆ 1.                                                                                                                                               | The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks.<br><i>If the response to Question III.G.1 is "No" or "N/A," go to Section III.H.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                                               | The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                                                               | The application area includes facilities that began construction prior to November 15, 1992.<br><i>If the responses to Questions III.G.2 and III.G.3 are both "No," go to Section III.H.</i>                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4.                                                                                                                                               | The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 5.                                                                                                                                               | The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |



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| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b> |                                                                                                                                                                                                                                                         |                                                                                                  |
| <b>H. Control of Reid Vapor Pressure (RVP) of Gasoline</b>                                                  |                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                        | The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County.<br><i>If the response to Question III.H.1 is "No" or "N/A," go to Section III.I.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| ◆ 2.                                                                                                        | The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                        | The application area includes a motor vehicle fuel dispensing facility.                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4.                                                                                                        | The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries</b>                      |                                                                                                                                                                                                                                                         |                                                                                                  |
| 1.                                                                                                          | The application area is located at a petroleum refinery.                                                                                                                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>J. Surface Coating Processes (Complete this section for GOP applications only.)</b>                      |                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                        | Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(3)(A) or 115.427(7) are performed in the application area.                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |

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| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b> |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| <b>K. Cutback Asphalt</b>                                                                                   |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| 1.                                                                                                          | Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency.<br><i>If the response to Question III.K.1 is "N/A," go to Section III.L.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2.                                                                                                          | The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 3.                                                                                                          | Asphalt emulsion is used or produced within the application area.                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 4.                                                                                                          | The application area is using an alternate control requirement as specified in 30 TAC § 115.513.<br><i>If the response to Question III.K.4 is "No," go to Section III.L.</i>                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 5.                                                                                                          | The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 6.                                                                                                          | The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 7.                                                                                                          | The applicant using cutback asphalt is a state, municipal, or county agency.                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels</b>                                  |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                        | The application area includes degassing operations for stationary, marine, and/or transport vessels.<br><i>If the response to Question III.L.1 is "No" or "N/A," go to Section III.M.</i>                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                        | Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area.<br><i>If the response to Question III.L.2 is "Yes," go to Section III.M.</i>                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

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| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b> |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| <b>L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)</b>                      |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| ◆ 3.                                                                                                        | Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 4.                                                                                                        | Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 5.                                                                                                        | Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 6.                                                                                                        | Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 7.                                                                                                        | Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure $\geq$ 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>M. Petroleum Dry Cleaning Systems</b>                                                                    |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 1.                                                                                                          | The application area contains one or more petroleum dry cleaning facilities that use petroleum-based solvents.                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

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| <b>III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)</b> |                                                                                                                                                                                                                                                                                        |                                                                                                  |
| <b>N. Vent Gas Control (Highly Reactive Volatile Organic Compounds (HRVOC))</b>                             |                                                                                                                                                                                                                                                                                        |                                                                                                  |
| 1.                                                                                                          | The application area includes one or more vent gas streams containing HRVOC.                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 2.                                                                                                          | The application area includes one or more flares that emit or have the potential to emit HRVOC.<br><i>If the responses to Questions III.N.1 and III.N.2 are both "No" or "N/A," go to Section III.O. If the response to Question III.N.1 is "Yes," continue with Question III.N.3.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 3.                                                                                                          | All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 4.                                                                                                          | All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times.<br><i>If the responses to Questions III.N.3 and III.N.4 are both "Yes," go to Section III.O.</i>                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 5.                                                                                                          | The application area contains pressure relief valves that are not controlled by a flare.                                                                                                                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 6.                                                                                                          | The application area has at least one vent stream which has no potential to emit HRVOC.                                                                                                                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 7.                                                                                                          | The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).                                                                                                                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| <b>O. Cooling Tower Heat Exchange Systems (HRVOC)</b>                                                       |                                                                                                                                                                                                                                                                                        |                                                                                                  |
| 1.                                                                                                          | The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

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| IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| A. Applicability                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| ◆ 1.                                                                            | <p>The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area.</p> <p><i>For SOP applications, if the response to Question IV.A.1 is "Yes," complete Sections IV.B - IV.F and IV.H.</i></p> <p><i>For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "Yes," go to Section IV.F.</i></p> <p><i>For GOP applications for GOP 517, if the response to Question IV.A.1 is "Yes," complete Sections IV.C and IV.F.</i></p> <p><i>For GOP applications, if the response to Question IV.A.1 is "No," go to Section VI.</i></p> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                                                                              | <p>The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln.</p> <p><i>If the response to Question IV.A.2 is "Yes," go to Question IV.H.1.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.                                                                              | <p>The application area includes a utility electric generator in an east or central Texas county.</p> <p><i>See instructions for a list of counties included.</i></p> <p><i>If the response to Question IV.A.3 is "Yes," go to Question IV.G.1.</i></p> <p><i>If the responses to Questions IV.A.1 - 3 are all "No," go to Question IV.H.1.</i></p>                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| B. Utility Electric Generation in Ozone Nonattainment Areas                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| 1.                                                                              | <p>The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300.</p> <p><i>If the response to Question IV.B.1 is "No," go to Question IV.C.1.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                              | <p>The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| <b>IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)</b>                                         |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| <b>C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas</b>                                                   |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| ◆ 1.                                                                                                                                       | The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400.<br><i>For SOP applications, if the response to Question IV.C.1 is "No," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "No," go to Section IV.F.</i>           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NO                              |
| ◆ 2.                                                                                                                                       | The application area is located at a site that was a major source of NO <sub>x</sub> before November 15, 1992.                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 3.                                                                                                                                       | The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.                                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>D. Adipic Acid Manufacturing</b>                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| 1.                                                                                                                                         | The application area is located at, or part of, an adipic acid production unit.                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>E. Nitric Acid Manufacturing - Ozone Nonattainment Areas</b>                                                                            |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| 1.                                                                                                                                         | The application area is located at, or part of, a nitric acid production unit.                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines</b> |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |
| ◆ 1.                                                                                                                                       | The application area is located at a site that is a minor source of NO <sub>x</sub> in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County).<br><i>For SOP applications, if the response to Question IV.F.1 is "No," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "No," go to Section VI.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 2.                                                                                                                                       | The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                                                       | The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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| <b>IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)</b>                                                     |                                                                                                                                                                                                                                                                                         |                                                                     |
| <b>F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)</b> |                                                                                                                                                                                                                                                                                         |                                                                     |
| ◆ 4.                                                                                                                                                   | The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 5.                                                                                                                                                   | The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6.                                                                                                                                                     | The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125.<br><i>If the response to Question IV.F.6 is "No," go to Section IV.G.</i>                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 7.                                                                                                                                                     | An ACSS for carbon monoxide (CO) has been approved?                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 8.                                                                                                                                                     | An ACSS for ammonia (NH <sub>3</sub> ) has been approved?                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 9.                                                                                                                                                     | Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS below.                                                                                                                                                                  |                                                                     |
| <b>G. Utility Electric Generation in East and Central Texas</b>                                                                                        |                                                                                                                                                                                                                                                                                         |                                                                     |
| 1.                                                                                                                                                     | The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995.<br><i>If the response to Question IV.G.1 is "No," go to Question IV.H.1.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                                     | The application area is complying with the System Cap in 30 TAC § 117.3020.                                                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>H. Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters</b>                                                          |                                                                                                                                                                                                                                                                                         |                                                                     |
| 1.                                                                                                                                                     | The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less.<br><i>If the response to question IV.H.1 is "No," go to Section V.</i>           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                                     | All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| <b>V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products</b>                                                                                                                                            |                                                                     |
| <b>A. Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings</b>                                                                                                                                                                                                    |                                                                     |
| 1. The application area manufactures automobile refinishing coatings or coating components and sells or distributes these coatings or coating components in the United States.                                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area imports automobile refinishing coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States.<br><i>If the responses to Questions V.A.1 and V.A.2 are both "No," go to Section V.B.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. All automobile refinishing coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>B. Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products</b>                                                                                                                                                                                                               |                                                                     |
| 1. The application area manufactures consumer products for sale or distribution in the United States.                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.                                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products.<br><i>If the responses to Questions V.B.1 - V.B.3 are all "No," go to Section V.C.</i>                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4. All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |



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| <b>V. Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)</b> |                                                                                                                                                                                                                                          |                                                                     |
| <b>C. Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings</b>                                                                           |                                                                                                                                                                                                                                          |                                                                     |
| 1.                                                                                                                                                                               | The application area manufactures or imports architectural coatings for sale or distribution in the United States.                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                                                               | The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act.<br><i>If the responses to Questions V.C.1-2 are both "No," go to Section V.D.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.                                                                                                                                                                               | All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>D. Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings</b>                                                                                 |                                                                                                                                                                                                                                          |                                                                     |
| 1.                                                                                                                                                                               | The application area manufactures or imports aerosol coating products for sale or distribution in the United States.                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                                                               | The application area is a distributor of aerosol coatings for resale or distribution in the United States.                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>E. Subpart F - Control of Evaporative Emissions from New and In-Use Portable Fuel Containers</b>                                                                              |                                                                                                                                                                                                                                          |                                                                     |
| 1.                                                                                                                                                                               | The application area manufactures or imports portable fuel containers for sale or distribution in the United States.<br><i>If the response to Question V.E.1 is "No," go to Section VI.</i>                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                                                               | All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards</b>                                                                                       |                                                                                                                                                                                                                                          |                                                                     |
| <b>A. Applicability</b>                                                                                                                                                          |                                                                                                                                                                                                                                          |                                                                     |
| ◆ 1.                                                                                                                                                                             | The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts.<br><i>If the response to Question VI.A.1 is "No," go to Section VII.</i>                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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|                                                                                                                                                                                                                                                                                                     |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                                                                                              |                                                                                       |
| <b>B. Subpart Y - Standards of Performance for Coal Preparation and Processing Plants</b>                                                                                                                                                                                                           |                                                                                       |
| 1. The application area is located at a coal preparation and processing plant.<br><i>If the response to Question VI.B.1 is "No," go to Section VI.C.</i>                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                   |
| 2. The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd).<br><i>If the response to Question VI.B.2 is "No," go to Section VI.C.</i>                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 3. The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option.<br><i>If the response to Question VI.B.3 is "Yes," go to Section VI.C.</i>                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 4. The plant contains an open storage pile, as defined in § 60.251, as an affected facility.<br><i>If the response to Question VI.B.4 is "No," go to Section VI.C.</i>                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 5. The open storage pile was constructed, reconstructed or modified after May 27, 2009.                                                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| <b>C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)</b>                                                                                                                                                                                                   |                                                                                       |
| ◆ 1. The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired.<br><i>If the response to Question VI.C.1 is "No" or "N/A," go to Section VI.E.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2. One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005.<br><i>If the response to Question VI.C.2 is "No," go to Section VI.E.</i>                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 3. One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 4. The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                              |

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|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                         |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| <b>C. Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)</b>                  |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 5.                                                                                                                           | One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| 1.                                                                                                                             | The application area includes bulk gasoline terminal loading racks.<br><i>If the response to Question VI.D.1 is "No," go to Section VI.E.</i>                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2.                                                                                                                             | One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO<sub>2</sub>) Emissions</b> |                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 1.                                                                                                                           | The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore).<br><i>For SOP applications, if the response to Question VI.E.1 is "No," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is or "N/A," go to Section VI.H.</i>                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 2.                                                                                                                           | The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011.<br><i>For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "No," go to Section VI.H.</i>                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                                           | The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD.<br><i>For SOP applications, if the response to Question VI.E.3 is "No," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "No," go to Section VI.H.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                                                                                                                                               |                                                                     |
| <b>E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO<sub>2</sub>) Emissions (continued)</b>                                                                                                                                                                                                           |                                                                     |
| ◆ 4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD.<br><i>For SOP applications, if the response to Question VI.E.4. is "No," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "No," go to Section VI.H.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 5. Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below                                                                                                                                                                                           |                                                                     |
|                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
| <b>F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants</b>                                                                                                                                                                                                                                                           |                                                                     |
| 1. The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant.<br><i>If the response to Question VI.F.1 is "No," go to Section VI.G.</i>                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems</b>                                                                                                                                                                                                                                        |                                                                     |
| 1. The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987.<br><i>If the response to Question VI.G.1 is "No," go to Section VI.H.</i>                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes storm water sewer systems.                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                               |                                                                                                                                                                                                                                                                           |                                                                                                  |
| <b>G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)</b>                                                                                                            |                                                                                                                                                                                                                                                                           |                                                                                                  |
| 3.                                                                                                                                                                                                                                   | The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 4.                                                                                                                                                                                                                                   | The application area includes non-contact cooling water systems.                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 5.                                                                                                                                                                                                                                   | The application area includes individual drain systems.<br><i>If the response to Question VI.G.5 is "No," go to Section VI.H.</i>                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 6.                                                                                                                                                                                                                                   | The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 7.                                                                                                                                                                                                                                   | The application area includes completely closed drain systems.                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004</b> |                                                                                                                                                                                                                                                                           |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                                 | The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator.<br><i>If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "No," go to Question VI.H.4.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                                                                                                                                 | The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                                                                                                                                                 | The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4.                                                                                                                                                                                                                                 | The application area includes at least one air curtain incinerator.<br><i>If the response to Question VI.H.4 is "No," go to Section VI.I.</i>                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |

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| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                                                 |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| <b>H. Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)</b>       |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 5.                                                                                                                                                                                                                                                   | The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.<br><i>If the response to Question VI.H.5 is "No," go to Question VI.H.7.</i>                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 6.                                                                                                                                                                                                                                                   | All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 7.                                                                                                                                                                                                                                                   | The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 8.                                                                                                                                                                                                                                                   | All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.                                                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001</b> |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                                                   | The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator.<br><i>If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "No," go to Question VI.I.4.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                                                                                                                                                   | The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                                                             |                                                                                                                                                                                                                                            |                                                                     |
| <b>I. Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)</b> |                                                                                                                                                                                                                                            |                                                                     |
| ◆ 3.                                                                                                                                                                                                                                                               | The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001. | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 4.                                                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator.<br><i>If the response to Question VI.I.4 is "No," go to Section VI.J.</i>                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 5.                                                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.<br><i>If the response to Question VI.I.5 is "No," go to VI.I.7.</i>         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 6.                                                                                                                                                                                                                                                               | All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 7.                                                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 8.                                                                                                                                                                                                                                                               | All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.                         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)</b>                                                                                                                             |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| <b>J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006</b> |                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                               | The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator.<br><i>If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "No," go to Question VI.J.4.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                                                                                                                               | The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                                                                                                                                                                               | The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4.                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator.<br><i>If the response to Question VI.J.4 is "No," go to Section VI.K.</i>                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 5.                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.<br><i>If the response to Question VI.J.5 is "No," go to Question VI.J.7.</i>                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 6.                                                                                                                                                                                                                               | All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 7.                                                                                                                                                                                                                               | The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |



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| <b>VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)</b>                                                                                                                                  |                                                                                                                                                                                                                                                            |                                                                                                  |
| <b>J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)</b> |                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 8.                                                                                                                                                                                                                                           | All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 9.                                                                                                                                                                                                                                           | The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 10.                                                                                                                                                                                                                                          | The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>K. Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution</b>                                                                                                                      |                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                                           | The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants</b>                                                                                                                            |                                                                                                                                                                                                                                                            |                                                                                                  |
| <b>A. Applicability</b>                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                                           | The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts.<br><i>If the response to Question VII.A.1 is "No" or "N/A," go to Section VIII.</i>                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>B. Subpart F - National Emission Standard for Vinyl Chloride</b>                                                                                                                                                                            |                                                                                                                                                                                                                                                            |                                                                                                  |
| 1.                                                                                                                                                                                                                                             | The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>C. Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)</b>                                                            |                                                                                                                                                                                                                                                            |                                                                                                  |
| ◆ 1.                                                                                                                                                                                                                                           | The application area includes equipment in benzene service.                                                                                                                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |

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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                                                             |                                                                     |
| <b>D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants</b>                                                                                                                                 |                                                                     |
| 1. The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b).<br><i>If the response to Question VII.D.1 is "No," go to Section VII.E.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>E. Subpart M - National Emission Standard for Asbestos</b>                                                                                                                                                                               |                                                                     |
| <b>Applicability</b>                                                                                                                                                                                                                        |                                                                     |
| 1. The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155.<br><i>If the response to Question VII.E.1 is "No," go to Section VII.F.</i>                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>Roadway Construction</b>                                                                                                                                                                                                                 |                                                                     |
| 2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>Manufacturing Commercial Asbestos</b>                                                                                                                                                                                                    |                                                                     |
| 3. The application area includes a manufacturing operation using commercial asbestos.<br><i>If the response to Question VII.E.3 is "No," go to Question VII.E.4.</i>                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| a. Visible emissions are discharged to outside air from the manufacturing operation                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                              |                                                          |
| <b>E. Subpart M - National Emission Standard for Asbestos (continued)</b>                                                                                                                                    |                                                          |
| <i>Manufacturing Commercial Asbestos (continued)</i>                                                                                                                                                         |                                                          |
| c. Asbestos-containing waste material is processed into non-friable forms.                                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| d. Asbestos-containing waste material is adequately wetted.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| e. Alternative filtering equipment is being used that has received EPA approval.                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| f. A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3-micron particles                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>Asbestos Spray Application</i>                                                                                                                                                                            |                                                          |
| 4. The application area includes operations in which asbestos-containing materials are spray applied.<br><i>If the response to Question VII.E.4 is "No," go to Question VII.E.5.</i>                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying.<br><i>If the response to Question VII.E.4.a is "Yes," go to Question VII.E.5.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                    |                                                          |
| <b>E. Subpart M - National Emission Standard for Asbestos (continued)</b>                                                                                          |                                                          |
| <i>Asbestos Spray Application (continued)</i>                                                                                                                      |                                                          |
| d. Asbestos-containing waste material is processed into non-friable forms.                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| e. Asbestos-containing waste material is adequately wetted.                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| f. Alternative filtering equipment is being used that has received EPA approval.                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3-micron particles.                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| h. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>Fabricating Commercial Asbestos</i>                                                                                                                             |                                                          |
| 5. The application area includes a fabricating operation using commercial asbestos.<br><i>If the response to Question VII.E.5 is "No," go to Question VII.E.6.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| a. Visible emissions are discharged to outside air from the manufacturing operation.                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| c. Asbestos-containing waste material is processed into non-friable forms.                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| d. Asbestos-containing waste material is adequately wetted.                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| e. Alternative filtering equipment is being used that has received EPA approval.                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                  |                                                                     |
| <b>E. Subpart M - National Emission Standard for Asbestos (continued)</b>                                                                                                                        |                                                                     |
| <i>Fabricating Commercial Asbestos (continued)</i>                                                                                                                                               |                                                                     |
| f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3-micron particles.                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <i>Non-sprayed Asbestos Insulation</i>                                                                                                                                                           |                                                                     |
| 6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <i>Asbestos Conversion</i>                                                                                                                                                                       |                                                                     |
| 7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>F. Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities</b>                                                |                                                                     |
| 1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations</b>                                                                                         |                                                                     |
| 1. The application area is located at a benzene production facility and/or bulk terminal.<br><i>If the response to Question VII.G.1 is "No," go to Section VII.H.</i>                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. The application area includes benzene transfer operations at marine vessel loading racks.                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                                                                 |                                                                     |
| <b>G. Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)</b>                                                                                                                            |                                                                     |
| 3. The application area includes benzene transfer operations at railcar loading racks.                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4. The application area includes benzene transfer operations at tank-truck loading racks.                                                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>H. Subpart FF - National Emission Standard for Benzene Waste Operations</b>                                                                                                                                                                  |                                                                     |
| <b>Applicability</b>                                                                                                                                                                                                                            |                                                                     |
| 1. The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b).<br><i>If the responses to Questions VII.H.1 and VII.H.2 are both "No," go to Section VIII.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates.<br><i>If the response to Question VII.H.3 is "Yes," go to Section VIII.</i>                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4. The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr).<br><i>If the response to Question VII.H.4 is "Yes," go to Section VIII</i>                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5. The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr.<br><i>If the response to Question VII.H.5 is "Yes," go to Section VIII.</i>    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                                                       |                                                                     |
| <b>H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)</b>                                                                                                                                            |                                                                     |
| <i>Applicability (continued)</i>                                                                                                                                                                                                      |                                                                     |
| 6. The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.                                                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 7. The application area has waste streams with flow-weighted annual average water content of 10% or greater.                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>Waste Stream Exemptions</i>                                                                                                                                                                                                        |                                                                     |
| 8. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 9. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 10. The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 11. The application area transfers waste off-site for treatment by another facility.                                                                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 12. The application area is complying with 40 CFR § 61.342(d).                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 13. The application area is complying with 40 CFR § 61.342(e).<br><i>If the response to Question VII.H.13 is "No," go to Question VII.H.15.</i>                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 14. The application area has facility waste with a flow weighted annual average water content of less than 10%.                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                                             |                                                                     |
| <b>H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)</b>                                                                                                                                  |                                                                     |
| <b>Container Requirements</b>                                                                                                                                                                                               |                                                                     |
| 15. The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste.<br><i>If the response to Question VII.H.15 is "No," go to Question VII.H.18.</i>                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.<br><i>If the response to Question VII.H.16 is "Yes," go to Question VII.H.18.</i>                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>Individual Drain Systems</b>                                                                                                                                                                                             |                                                                     |
| 18. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste.<br><i>If the response to Question VII.H.18 is "No," go to Question VII.H.25.</i>     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.<br><i>If the response to Question VII.H.19 is "Yes," go to Question VII.H.25.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 20. The application area has individual drain systems complying with 40 CFR § 61.346(a).<br><i>If the response to Question VII.H.20 is "No," go to Question VII.H.22.</i>                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 21. Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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| <b>VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)</b>                                                                                                                                                            |                                                                     |
| <b>H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)</b>                                                                                                                                                                                                 |                                                                     |
| <i>Individual Drain Systems (continued)</i>                                                                                                                                                                                                                                                |                                                                     |
| 22. The application area has individual drain systems complying with 40 CFR § 61.346(b).<br><i>If the response to Question VII.H.22 is "No," go to Question VII.H.25.</i>                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 23. Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <i>Remediation Activities</i>                                                                                                                                                                                                                                                              |                                                                     |
| 25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.                                                                                                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories</b>                                                                                                                                                 |                                                                     |
| <b>A. Applicability</b>                                                                                                                                                                                                                                                                    |                                                                     |
| ◆ 1. The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63.<br><i>See instructions for 40 CFR Part 63 subparts made applicable only by reference.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry</b>                                                                                                                                          |                                                                     |
| 1. The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a).<br><i>If the response to Question VIII.B.1 is "No," go to Section VIII.D.</i>                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |
| 2.                                                                                                                                                     | The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii).<br><i>If the response to Question VIII.B.2 is "No," go to Section VIII.D.</i>                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                                                                                                                                                     | The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.                                                                                                                                                     | The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.                                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                                                                                                                                                     | The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does <u>not</u> use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.<br><i>If the response to Questions VIII.B.3, B.4 and B.5 are all "No," go to Section VIII.D.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                    |                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater |                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
| <i>Applicability</i>                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
| 1.                                                                                                                                                                                                                 | The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F.<br><i>If the response to Question VIII.C.1 is "No," go to Section VIII.D.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                                                                                                                                                                                                                 | The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148.                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                                                                                                                                                                                                                 | The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148.<br><i>If the response to Question VIII.C.3 is "No," go to Question VIII.C.8.</i>                                                                                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.                                                                                                                                                                                                                 | The application area includes vapor collection systems or closed-vent systems that are constructed of hard piping.                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                                                                                                                                                                                                                 | The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere.<br><i>If the response to Question VIII.C.5 is "No," go to Question VIII.C.8.</i>                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>Vapor Collection and Closed Vent Systems</i>                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
| 6.                                                                                                                                                                                                                 | Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area.                                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7.                                                                                                                                                                                                                 | Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration.                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                |                                                                     |
| <b>C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)</b> |                                                                     |
| <i>Reloading or Cleaning of Railcars, Tank Trucks, or Barges</i>                                                                                                                                                                      |                                                                     |
| 8. The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank.<br><i>If the response to Question VIII.C.8 is "No," go to Question VIII.C.11.</i>                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 9. The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater.  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 10. The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <i>Transfer Racks</i>                                                                                                                                                                                                                 |                                                                     |
| 11. The application area includes Group 1 transfer racks that load organic HAPs.                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <i>Process Wastewater Streams</i>                                                                                                                                                                                                     |                                                                     |
| 12. The application area includes process wastewater streams.<br><i>If the response to Question VIII.C.12 is "No," go to Question VIII.C.34.</i>                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 13. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF.<br><i>If the response to Question VIII.C.13 is "No," go to Question VIII.C.15.</i>                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 14. The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 15. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F.<br><i>If the response to Question VIII.C.15 is "No," go to Question VIII.C.17.</i>                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                           |                                                                     |
| <b>C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)</b>            |                                                                     |
| <b>Process Wastewater Streams (continued)</b>                                                                                                                                                                                                    |                                                                     |
| 16. The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 17. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272.<br><i>If the response to Question VIII.C.17 is "No," go to Question VIII.C.20.</i>                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 18. The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 19. The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 20. The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 21. The application area includes process wastewater streams, located at existing sources that are Group 2.                                                                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 22. The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 23. The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                             |                                                                     |
| <b>C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)</b>              |                                                                     |
| <b>Process Wastewater Streams (continued)</b>                                                                                                                                                                                                      |                                                                     |
| 24. All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.C.24 is "Yes," go to Question VIII.C.34.</i>                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 25. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.C.25 is "No," go to Question VIII.C.27.</i>         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 26. The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 27. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 28. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.<br><i>If the responses to Questions VIII.C.27 - VIII.C.28 are both "No," go to Question VIII.C.30.</i>      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 29. The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 30. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                |                                                                     |
| <b>C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)</b>                                                                 |                                                                     |
| <i>Drains</i>                                                                                                                                                                                                                                                                                         |                                                                     |
| 31. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.<br><i>If the response to Question VIII.C.31 is "No," go to Question VIII.C.34.</i>                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.                                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 33. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.                                                                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 34. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b).<br><i>If the response to Question VIII.C.34 is "No," go to Question VIII.C.39.</i>            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 35. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d).<br><i>If the response to Question VIII.C.35 is "No," go to Question VIII.C.39.</i>     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 36. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate. | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
| <b>C. Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)</b>                                                                                                                                                                                                                                                                                    |                                                                     |
| <b>Drains (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                     |
| 37. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 38. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute. | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>Gas Streams</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| 39. The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 40. The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>D. Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks</b>                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
| 1. The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                                             |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| E. Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities                                                                  |                                                                                                                                                                                                                                                                             |                                                                     |
| 1.                                                                                                                                              | The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials.<br><i>If the response to Question VIII.E.1 is "No," go to Section VIII.F.</i>                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                              | Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O.<br><i>If the response to Question VIII.E.2 is "No," go to Section VIII.F.</i>                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3.                                                                                                                                              | The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.                                                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4.                                                                                                                                              | The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers                                                                |                                                                                                                                                                                                                                                                             |                                                                     |
| 1.                                                                                                                                              | The application area includes industrial process cooling towers.<br><i>If the response to Question VIII.F.1 is "No," go to Section VIII.G.</i>                                                                                                                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                                                                                                                                              | Chromium-based water treatment chemicals have been used on or after September 8, 1994.                                                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)        |                                                                                                                                                                                                                                                                             |                                                                     |
| 1.                                                                                                                                              | The application area includes a bulk gasoline terminal.                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                              | The application area includes a pipeline breakout station.<br><i>If the responses to Questions VIII.G.1 and VIII.G.2 are both "No," go to Section VIII.H.</i>                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.                                                                                                                                              | The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station.<br><i>If the response to Question VIII.G.3 is "Yes," go to Question VIII.G.10.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)      |                                                                                                                                                                                                                                                                                                                                      |                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued) |                                                                                                                                                                                                                                                                                                                                      |                                                          |
| 4.                                                                                                                                                   | The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs.<br><i>If the response to Question VIII.G.4 is "Yes," go to Question VIII.G.10.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                                                                                                                                                   | An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station.<br><i>If the response to Question VIII.G.5 is "No," go to Question VIII.G.10.</i>                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                                                                                                                                                   | The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep).<br><i>If the response to Question VIII.G.6 is "No," go to Question VIII.G.10.</i>                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                                                                                                                                                   | Emissions screening factor less than 0.5 (ET or EP < 0.5).<br><i>If the response to Question VIII.G.7 is "Yes," go to Section VIII.H.</i>                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                                   | Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0).<br><i>If the response to Question VIII.G.8 is "Yes," go to Section VIII.H.</i>                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                                                                                                                                                   | Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0).<br><i>If the response to Question VIII.G.9 is "Yes," go to Question VIII.G.11.</i>                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                                  | The site at which the application area is located is a major source of HAP.<br><i>If the response to Question VIII.G.10 is "No," go to Section VIII.H.</i>                                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                                                                                                                                                  | The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).                                                                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                                                            |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry                                        |                                                                                                                                                                                                                                                                                            |                                                                     |
| 1.                                                                                                                                              | The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2.<br><i>If the response to Question VIII.H.1 is "No," go to Section VIII.I.</i>                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                              | The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3).<br><i>If the response to Question VIII.H.2 is "No," go to Section VIII.I.</i>                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3.                                                                                                                                              | The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources.<br><i>If the response to Question VIII.H.3 is "No," go to Section VIII.I.</i>                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4.                                                                                                                                              | The application area includes one or more kraft pulping systems that are existing sources.                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 5.                                                                                                                                              | The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6.                                                                                                                                              | The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24.<br><i>If the response to Question VIII.H.6 is "No," go to Section VIII.I.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 7.                                                                                                                                              | The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 8.                                                                                                                                              | The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).                                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                                                                                            |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning                                                                     |                                                                                                                                                                                                                                                                                                                            |                                                                     |
| 1.                                                                                                                                              | The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                              | The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.                                                                                                                                              | The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins                                   |                                                                                                                                                                                                                                                                                                                            |                                                                     |
| 1.                                                                                                                                              | The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units.<br><i>If the response to Question VIII.J.1 is "No," go to Section VIII.K.</i>                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                                                                                                                                              | Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U.<br><i>If the response to Question VIII.J.2 is "No," go to Section VIII.K.</i>                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                                                                                                                                              | The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482.                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4.                                                                                                                                              | The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.                                                                                                                                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)                       |                                                                                                                                                                                                                                                |                                                                     |
| 5.                                                                                                                                              | All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.J.5 is "Yes," go to Question VIII.J.15.</i>                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6.                                                                                                                                              | The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.J.6 is "No," go to Question VIII.J.8.</i>           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7.                                                                                                                                              | The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 8.                                                                                                                                              | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 9.                                                                                                                                              | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.<br><i>If the responses to Questions VIII.J.8 - VIII.J.9 are both "No," go to Question VIII.J.11.</i>        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 10.                                                                                                                                             | The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                    |                                                                     |
| <b>J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)</b>                                                                                                                          |                                                                     |
| <b>Containers</b>                                                                                                                                                                                                                                         |                                                                     |
| 11. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>Drains</b>                                                                                                                                                                                                                                             |                                                                     |
| 12. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.<br><i>If the response to Question VIII.J.12 is "No," go to Question VIII.J.15.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 13. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 14. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit.<br><i>If the response to Question VIII.J.15 is "No," go to Section VIII.K.</i>                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12).<br><i>If the response to Question VIII.J.16 is "No," go to Section VIII.K.</i>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |
| <b>J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)</b>                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                  |
| <b><i>Drains (continued)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                  |
| 17. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.                                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute. | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>K. Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production</b>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                  |
| 1. The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area.<br><i>If the response to Question VIII.K.1 is "No" or "N/A," go to Section VIII.L.</i>                                                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. The application area includes a BLR and/or WSR research and development facility.                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                               |                                                                                                  |
| <b>L. Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting</b>                                                                                                                          |                                                                                                  |
| 1. The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter.<br><i>If the response to Question VIII.L.1 is "No" or "N/A," go to Section VIII.M.</i>      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>M. Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations</b>                                                                                                                                          |                                                                                                  |
| 1. The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries</b>                                                                                                                            |                                                                                                  |
| <b>Applicability</b>                                                                                                                                                                                                                 |                                                                                                  |
| 1. The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7).<br><i>If the response to Question VIII.N.1 is "No," go to Section VIII.O.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 2. All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7).<br><i>If the response to Question VIII.N.2 is "Yes," go to Section VIII.O.</i>   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |



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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                              |                                                          |
| <b>N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)</b>                                                                                                                                                                                                                                               |                                                          |
| <i>Applicability (continued)</i>                                                                                                                                                                                                                                                                                                                                    |                                                          |
| 3. The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a).<br><i>If the response to Question VIII.N.3 is "No," go to Section VIII.O.</i>                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC.<br><i>If the response to Question VIII.N.4 is "No," go to Section VIII.O.</i>                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7. The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.<br><i>If the response to Question VIII.N.7 is "No," go to Question VIII.N.13.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                        |                                                                                                  |
| <b>N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)</b>                                                                                                                                                                         |                                                                                                  |
| <i>Applicability (continued)</i>                                                                                                                                                                                                                                                              |                                                                                                  |
| 9. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii).<br><i>If the response to Question VIII.N.9 is "No," go to Question VIII.N.13.</i>                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 10. The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992. | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>Containers, Drains, and other Appurtenances</b>                                                                                                                                                                                                                                            |                                                                                                  |
| 11. The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 12. The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 13. The application area includes Group 1 gasoline loading racks as specified in § 63.650(a).                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations</b>                                                                                                                                                                                                 |                                                                                                  |
| 1. The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1).<br><i>If the response to Question VIII.O.1 is "No" or "N/A," go to Section VIII.P</i>                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 3. The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265.                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                                                               |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)                                              |                                                                                                                                                                                                                                                                                               |                                                          |
| 4.                                                                                                                                              | The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                                                                                                                                              | The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a “state” or “municipality.”                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                                                                                                                                              | The predominant activity in the application area is the treatment of wastewater received from off-site.                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                                                                                                                                              | The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                              | The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61. | <input type="checkbox"/> YES <input type="checkbox"/> No |
| 9.                                                                                                                                              | The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                             | The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year.<br><i>If the response to Question VIII.O.10 is “Yes,” go to Section VIII.P.</i>                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                                                                 |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)                                                                                                                                                                                                              |                                                          |
| 11. The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater.<br><i>If the response to Question VIII.O.11 is "No," go to Question VIII.O.14.</i>   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12. VOHAP concentration is determined by direct measurement.                                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 13. VOHAP concentration is based on knowledge of the off-site material.                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 14. The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system.<br><i>If the response to Question VIII.O.14 is "No," go to Question VIII.O.17.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 15. An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.                                                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 17. The application area includes containers that manage non-exempt off-site material.                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 18. The application area includes individual drain systems that manage non-exempt off-site materials.                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| <b>P. Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities</b>                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |
| 1. The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components.<br><i>If the response to Question VIII.P.1 is "No" or "N/A," go to Section VIII.Q.</i>                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>Q. Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.</b>                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1. The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 2. The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user.<br><i>For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "No," go to Section VIII.R.</i><br><i>For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "No," go to Section VIII.Z.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 3. The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761.<br><i>For SOP applications, if the response to Question VIII.Q.3 is "Yes," go to Section VIII.R.</i><br><i>For GOP applications, if the response to Question VIII.Q.3 is "Yes," go to Section VIII.Z.</i>                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4. The application area is located at a site that is a major source of HAP.<br><i>If the response to Question VIII.Q.4 is "No," go to Question VIII.Q.6.</i>                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |
| ◆ 5.                                                                                                                                            | <p>The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft<sup>3</sup>) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day.</p> <p><i>For SOP applications, if the response to Question VIII.Q.5 is "Yes," go to Section VIII.R.</i></p> <p><i>For GOP applications, if the response to Question VIII.Q.5 is "Yes," go to Section VIII.Z.</i></p> <p><i>For all applications, if the response to Question VIII.Q.5 is "No," go to Question VIII.Q.9.</i></p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 6.                                                                                                                                            | <p>The application area includes a triethylene glycol (TEG) dehydration unit.</p> <p><i>For SOP applications, if the answer to Question VIII.Q.6 is "No," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "No," go to Section VIII.Z.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 7.                                                                                                                                            | <p>The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 8.                                                                                                                                            | <p>The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 9.                                                                                                                                            | <p>Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                  |                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| R. Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)                                                                                                                                                                   |                                                                                                  |
| 1. The application area includes shipbuilding or ship repair operations.<br><i>If the response to Question VIII.R.1 is "NO," go to Section VIII.S.</i>                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| S. Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations                                                                                                                                                                          |                                                                                                  |
| 1. The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations.<br><i>If the response to Question VIII.S.1 is "No" or "N/A," go to Section VIII.T.</i>                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| T. Subpart KK - National Emission Standards for the Printing and Publishing Industry                                                                                                                                                                             |                                                                                                  |
| 1. The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| U. Subpart PP - National Emission Standards for Containers                                                                                                                                                                                                       |                                                                                                  |
| 1. The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions.<br><i>If the response to Question VIII.U.1 is "NO," go to Section VIII.V.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 2. The application area includes containers using Container Level 1 controls.                                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 3. The application area includes containers using Container Level 2 controls.                                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                                         |                                                                     |
| <b>U. Subpart PP - National Emission Standards for Containers (continued)</b>                                                                                                                                                                                                                                                                                                  |                                                                     |
| 4. The application area includes containers using Container Level 3 controls.                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>V. Subpart RR - National Emission Standards for Individual Drain Systems</b>                                                                                                                                                                                                                                                                                                |                                                                     |
| 1. The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.                                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards</b>                                                                                                                                                                                                                |                                                                     |
| 1. The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.                                                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.<br><i>If the responses to Questions VIII.W.1 and VIII.W.2 are both "No," go to Question VIII.W.20.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4. The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 5. All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.                                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6. The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.W.6 is "No," go to Question VIII.W.8.</i>                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |



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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                      |                                                                                                                                                                                                                                                              |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued) |                                                                                                                                                                                                                                                              |                                                          |
| 7.                                                                                                                                                                   | The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                                                   | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.               | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                                                                                                                                                                   | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.<br><i>If the responses to Questions VIII.W.8 and W.9 are both "No," go to Question VIII.W.11.</i>                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                                                  | The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                                                                                                                                                                  | The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12.                                                                                                                                                                  | The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.<br><i>If the response to Question VIII.W.12 is "No," go to Question VIII.W.15.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 13.                                                                                                                                                                  | The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 14.                                                                                                                                                                  | The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                                                                                                                                                         |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)                                                                                                                                                                                                                                    |                                                          |
| 15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit.<br><i>If the response to Question VIII.W.15 is "No," go to Question VIII.W.20.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3).<br><i>If the response to Question VIII.W.16 is "No," go to Question VIII.W.20.</i>                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 17. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 18. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.       | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |
| 19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute. | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 20. The application area includes an ethylene production process unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 21. The application area includes waste streams generated from an ethylene production process unit.<br><i>If the responses to Questions VIII.W.20 and VIII.W.21 are both "No" or "N/A," go to Question VIII.W.54.</i>                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| 22. The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1).<br><i>If the response to Question VIII.W.22 is "No," go to Question VIII.W.54.</i>                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 23. Waste stream(s) are transferred off-site for treatment.<br><i>If the response to Question VIII.W.23 is "No," go to Question VIII.W.25.</i>                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 24. The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment.<br><i>If the response to Question VIII.W.24 is "No," go to Question VIII.W.54.</i>                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                      |                                                                                                                                                                                                                                                         |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued) |                                                                                                                                                                                                                                                         |                                                          |
| 25.                                                                                                                                                                  | The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 26.                                                                                                                                                                  | The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b).<br><i>If the response to Question VIII.W.26 is "No," go to Question VIII.W.43.</i>                               | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 27.                                                                                                                                                                  | The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control.<br><i>If the response to Question VIII.W.27 is "No," go to Question VIII.W.43.</i>                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 28.                                                                                                                                                                  | The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s).<br><i>If the response to Question VIII.W.28 is "No," go to Question VIII.W.33.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 29.                                                                                                                                                                  | The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 30.                                                                                                                                                                  | The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream.<br><i>If the response to Question VIII.W.30 is "No," go to Question VIII.W.43.</i>                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 31.                                                                                                                                                                  | The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                      |                                                                                                                                                                                                                                                        |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued) |                                                                                                                                                                                                                                                        |                                                          |
| 32.                                                                                                                                                                  | The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.<br><i>If the response to Question VIII.W.32 is required, go to Question VIII.W.43.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 33.                                                                                                                                                                  | The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream.<br><i>If the response to Question VIII.W.33 is "No," go to Question VIII.W.36.</i>                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 34.                                                                                                                                                                  | The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.<br><i>If the response to Question VIII.W.34 is "Yes," go to Question VIII.W.36.</i>                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 35.                                                                                                                                                                  | Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 36.                                                                                                                                                                  | The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream.<br><i>If the response to Question VIII.W.36 is "No," go to Question VIII.W.43.</i>                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 37.                                                                                                                                                                  | The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.<br><i>If the response to Question VIII.W.37 is "Yes," go to Question VIII.W.43.</i>                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                      |                                                                                                                                                                                                        |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued) |                                                                                                                                                                                                        |                                                          |
| 38.                                                                                                                                                                  | The application area has individual drain systems complying with 40 CFR § 61.346(a).<br><i>If the response to Question VIII.W.38 is "No," go to Question VIII.W.40.</i>                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 39.                                                                                                                                                                  | Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 40.                                                                                                                                                                  | The application area has individual drain systems complying with 40 CFR § 61.346(b).<br><i>If the response to Question VIII.W.40 is "No," go to Question VIII.W.43.</i>                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 41.                                                                                                                                                                  | Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 42.                                                                                                                                                                  | Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 43.                                                                                                                                                                  | The application area has at least one waste stream that contains benzene.<br><i>If the response to Question VIII.W.43 is "No," go to Question VIII.W.54.</i>                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 44.                                                                                                                                                                  | The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene.<br><i>If the response to Question VIII.W.44 is "No," go to Question VIII.W.47.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 45.                                                                                                                                                                  | The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers.<br><i>If the response to Question VIII.W.45 is "Yes," go to Question VIII.W.47.</i>  | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                      |                                                                                                                                                                                                                                |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued) |                                                                                                                                                                                                                                |                                                          |
| 46.                                                                                                                                                                  | Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 47.                                                                                                                                                                  | The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene.<br><i>If the response to Question VIII.W.47 is "No," go to Question VIII.W.54.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 48.                                                                                                                                                                  | The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems.<br><i>If the response to Question VIII.W.48 is "Yes," go to Question VIII.W.54.</i>      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 49.                                                                                                                                                                  | The application area has individual drain systems complying with 40 CFR § 61.346(a).<br><i>If the response to Question VIII.W.49 is "No," go to Question VIII.W.51.</i>                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 50.                                                                                                                                                                  | Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 51.                                                                                                                                                                  | The application area has individual drain systems complying with 40 CFR § 61.346(b).<br><i>If the response to Question VIII.W.51 is "No," go to Question VIII.W.54.</i>                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 52.                                                                                                                                                                  | Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                                          |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)                                                                                                                     |                                                                     |
| 53. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 54. The application area contains a cyanide chemicals manufacturing process.<br><i>If the response to Question VIII.W.54 is "No," go to Section VIII.X.</i>                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins                                                                                                                                                                         |                                                                     |
| 1. The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ.<br><i>If the response to Question VIII.X.1 is "No," go to Section VIII.Y.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units.<br><i>If the response to Question VIII.X.2 is "No," go to Section VIII.Y.</i>                     | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene.<br><i>If the response to Question VIII.X.3 is "Yes," go to Section VIII.Y.</i>                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN.<br><i>If the response to Question VIII.X.4 is "Yes," go to Section VIII.Y.</i>                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |



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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued) |                                                                                                                                                                                                                                                |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)                    |                                                                                                                                                                                                                                                |                                                          |
| 5.                                                                                                                                              | The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                                                                                                                                              | The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                                                                                                                                              | The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                              | All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.X.8 is "Yes," go to Question VIII.X.18.</i>                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                                                                                                                                              | The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.X.9 is "No," go to Question VIII.X.11.</i>          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                             | The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                                                                                                                                             | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12.                                                                                                                                             | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.<br><i>If the responses to Questions VIII.X.11 - VIII.X.12 are both "No," go to Question VIII.X.14.</i>      | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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|                                                                                                                                                                                                                                                          |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                   |                                                          |
| <b>X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)</b>                                                                                                                      |                                                          |
| 13. The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>Containers</b>                                                                                                                                                                                                                                        |                                                          |
| 14. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>Drains</b>                                                                                                                                                                                                                                            |                                                          |
| 15. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.<br><i>If the response to Question VIII.X.15 is "No," go to Question VIII.X.18.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a thermoplastic product process unit.<br><i>If the response to Question VIII.X.18 is "No," go to Section VIII.Y.</i>                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |
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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                                                                                                                                                                                                                         |                                                          |
| <b>X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)</b>                                                                                                                                                                                                                                                                                                                                                                            |                                                          |
| <b><i>Drains (continued)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |
| 19. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12).<br><i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i>                                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 20. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.                                                                                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 21. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 22. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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|                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                     |                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |
| <b>Y. Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.</b> |                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |
| 1.                                                                                                                                                                                         | The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>Z. Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |
| ◆ 1.                                                                                                                                                                                       | The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)</b>                                       |                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |
| 1.                                                                                                                                                                                         | The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).                                                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                                                                                                                                                                                         | The application area is located at a plant site that is a major source as defined in FCAA § 112(a).                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                                                                                                                                                                                         | The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP.<br><i>If the response to Question VIII.AA.1, AA.2 or AA.3 is "No," go to Section VIII.BB.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.                                                                                                                                                                                         | The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF.<br><i>If the response to Question VIII.AA.4 is "No," go to Section VIII.BB.</i>                                                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)           |                                                                                                                                                                                                                                                                                            |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued) |                                                                                                                                                                                                                                                                                            |                                                                     |
| 5.                                                                                                                                                        | The application area includes process wastewater streams.<br><i>If the response to Question VIII.AA.5 is "No," go to Question VIII.AA.24.</i>                                                                                                                                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                                                                                                                                                        | The application area includes process wastewater streams, located at existing sources, that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                                                                                                                                                        | The application area includes process wastewater streams, located at existing sources, that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate.                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                                        | The application area includes process wastewater streams, located at new sources, that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate.      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                                                                                                                                                        | The application area includes process wastewater streams, located at new sources, that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9 of 40 CFR Part 63, Subpart FFFF, as appropriate.                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                                       | All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.AA.10 is "Yes," go to Question VIII.AA.24.</i>                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 11.                                                                                                                                                       | The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr.<br><i>If the response to Question VIII.AA.11 is "No," go to Question VIII.AA.13.</i>                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 12.                                                                                                                                                       | The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 13.                                                                                                                                                       | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)           |                                                                                                                                                                                                                                                                           |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued) |                                                                                                                                                                                                                                                                           |                                                                     |
| 14.                                                                                                                                                       | Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation.<br><i>If the responses to Questions VIII.AA.13 and VIII.AA.14 are both "No," go to Question VIII.AA.20.</i>                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 15.                                                                                                                                                       | Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h).<br><i>If the response to Question VIII.AA.15 is "No," go to Question VIII.AA.17.</i>                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 16.                                                                                                                                                       | The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 17.                                                                                                                                                       | Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite.<br><i>If the response to Question VIII.AA.17 is "No," go to Question VIII.AA.19.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 18.                                                                                                                                                       | The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 19.                                                                                                                                                       | The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 20.                                                                                                                                                       | The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 21.                                                                                                                                                       | The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream.<br><i>If the response to Question VIII.AA.21 is "No," go to Question VIII.AA.24.</i>                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 22.                                                                                                                                                       | The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |
| 23. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 24. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b).<br><i>If the response to Question VIII.AA.24 is "No," go to Section VIII.BB.</i>                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 25. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d).<br><i>If the response to Question VIII.AA.25 is "No," go to Section VIII.BB.</i>                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 26. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 27. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 28. The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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#### VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

##### BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.

- |                                                                                                                                                                                                                                                        |                                                                     |
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| 1. The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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##### CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation

- |                                                                                                                                                                     |                                                                     |
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| 1. The application area includes a facility at which a site remediation is conducted.<br><i>If the answer to Question VIII.CC.1 is "No," go to Section VIII.DD.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
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| 2. The application area is located at a site that is a major source of HAP.<br><i>If the answer to Question VIII.CC.2 is "No," go to Section VIII.DD.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
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| 3. All site remediations qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6).<br><i>If the answer to Question VIII.CC.3 is "Yes," go to Section VIII.DD.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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| 4. All site remediation activities are complete, and the Administrator has been notified in writing.<br><i>If the answer to Question VIII.CC.4 is "Yes," go to Section VIII.DD.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
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| 5. Prior to beginning site remediation activities, it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr.<br><i>If the answer to Question VIII.CC.5 is "Yes," go to Section VIII.DD.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
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| 6. The site remediation will be completed within 30 consecutive calendar days. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
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| 7. No site remediation will exceed 30 consecutive calendar days.<br><i>If the answer to Question VIII.CC.7 is "Yes," go to Section VIII.DD.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
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| 8. Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
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- |                                                                                                                                                                                                                              |                                                          |
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| 9. All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.<br><i>If the answer to Question VIII.CC.9 is "Yes," go to Section VIII.DD.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b> |                                                                                                                                                                                                                                                                                           |                                                          |
| <b>CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)</b>                                      |                                                                                                                                                                                                                                                                                           |                                                          |
| 10.                                                                                                                                                    | The application area includes a remediation material management unit used for cleanup of radioactive mixed waste per § 63.7886(c).                                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                                                                                                                                                    | The application area includes a remediation material management unit or combination of units with a total annual quantity of HAP less than 1 Mg/yr that is being exempted from § 63.7886(b) per § 63.7886(d).                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12.                                                                                                                                                    | The application area includes a remediation material management unit that has an average total VOHAP concentration of remediation material less than 500 ppmw and is complying with § 63.7886(b)(2).<br><i>If the response to Question VIII.CC.12 is "No," go to Question VIII.CC.14.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 13.                                                                                                                                                    | The application area includes a remediation material management unit that concentrates all or part of the material such that the material's VOHAP concentration could increase.                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 14.                                                                                                                                                    | The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG.<br><i>If the response to Question VIII.CC.14 is "No," go to Question VIII.CC.21.</i>                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 15.                                                                                                                                                    | The application area includes containers that are also subject to and complying with another subpart under 40 CFR part 61 or part 63 per § 63.7886(b)(3).                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 16.                                                                                                                                                    | The application area includes containers that are complying with alternative work practice standards that have been approved by the EPA per § 63.7900(e).                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 17.                                                                                                                                                    | The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 18.                                                                                                                                                    | The application area includes containers with a capacity greater than 0.46 m <sup>3</sup> that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 19.                                                                                                                                                    | The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 20.                                                                                                                                                    | The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 21.                                                                                                                                                    | The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.                                                                                                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                          |                                                                     |
| <b>DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities</b>                                                                                               |                                                                     |
| 1. The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions.<br><i>If the response to Question VIII.DD.1 is "No," go to Section VIII.EE.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The EAF steelmaking facility is a research and development facility.<br><i>If the response to Question VIII.DD.2 is "Yes," go to Section VIII.EE.</i>                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3. Metallic scrap is utilized in the EAF.                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4. Scrap containing motor vehicle scrap is utilized in the EAF.                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 5. Scrap not containing motor vehicle scrap is utilized in the EAF.                                                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>EE. Subpart BBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities</b>                                                               |                                                                     |
| 1. The application area is located at a site that is an area source of HAPs.<br><i>If the answer to Question EE.1 is "No," go to Section VIII.FF.</i>                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3. The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBB.                                                                                                                                         | <input type="checkbox"/> Yes <input type="checkbox"/> No            |

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| VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)                                          |                                                                                                                                                                                                                                                                         |                                                          |
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| EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued) |                                                                                                                                                                                                                                                                         |                                                          |
| 4.                                                                                                                                                                                       | The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB.<br><i>If the answer to Question VIII.EE.4 is "No," go to Question VIII.EE.6.</i>                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                                                                                                                                                                                       | The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                                                                                                                                                                                       | The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC.<br><i>If the answer to Question VIII.EE.6 is "No," go to Section VIII.FF.</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                                                                                                                                                                                       | The bulk gasoline terminal has throughput of less than 250,000 gallons per day.<br><i>If the answer to Question VIII.EE.7 is "Yes," go to Section VIII.FF.</i>                                                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                                                                                                                                                                                       | The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.                                                                                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                                                                                                                                                                                       | The bulk gasoline terminal loads gasoline into railcar cargo tanks.<br><i>If the answer to Question VIII.EE.9 is "No," go to Section VIII.FF.</i>                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                                                                                                                                                                                      | The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.                                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                          |                                                                                                                                                                                                                                                                                                             |                                                                     |
| <b>EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)</b> |                                                                                                                                                                                                                                                                                                             |                                                                     |
| 11.                                                                                                                                                                                             | The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>FF. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities</b>                                                        |                                                                                                                                                                                                                                                                                                             |                                                                     |
| ◆ 1.                                                                                                                                                                                            | The application area is located at a site that is an area source of hazardous air pollutants.<br><i>If the answer to Question VIII.FF.1 is "No," go to Section VIII.GG.</i>                                                                                                                                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 2.                                                                                                                                                                                            | The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132.<br><i>If the answer to Question VIII.FF.2 is "No," go to Section VIII.GG.</i>                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 3.                                                                                                                                                                                            | The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 4.                                                                                                                                                                                            | The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| <b>GG. Recently Promulgated 40 CFR Part 63 Subparts</b>                                                                                                                                         |                                                                                                                                                                                                                                                                                                             |                                                                     |
| ◆ 1.                                                                                                                                                                                            | The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form.<br><i>If the response to Question VIII.GG.1 is "No," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 2.                                                                                                                                                                                            | Provide the Subpart designation (i.e. Subpart EEE) in the space provided below.                                                                                                                                                                                                                             |                                                                     |
| Subpart EEEE, ZZZZ, DDDDD                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                             |                                                                     |

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| <b>IX. Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions</b>                                                    |                                                                                                                                                                                             |                                                                                                  |
| <b>A. Applicability</b>                                                                                                                                               |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| <b>X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone</b>                                                           |                                                                                                                                                                                             |                                                                                                  |
| <b>A. Subpart A - Production and Consumption Controls</b>                                                                                                             |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>B. Subpart B - Servicing of Motor Vehicle Air Conditioners</b>                                                                                                     |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO                              |
| <b>C. Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances</b> |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>D. Subpart D - Federal Procurement</b>                                                                                                                             |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | The application area is owned/operated by a department, agency, or instrumentality of the United States.                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>E. Subpart E - The Labeling of Products Using Ozone Depleting Substances</b>                                                                                       |                                                                                                                                                                                             |                                                                                                  |
| ◆ 1.                                                                                                                                                                  | The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                                                                  | The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 3.                                                                                                                                                                  | The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

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| <b>X. Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)</b> |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| <b>F. Subpart F - Recycling and Emissions Reduction</b>                                                                 |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                                                                    | Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 2.                                                                                                                    | Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 3.                                                                                                                    | The application area manufactures appliances or refrigerant recycling and recovery equipment.                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>G. Subpart G - Significant New Alternatives Policy Program</b>                                                       |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                                                                    | The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound.<br><i>If the response to Question X.G.1 is "No" or "N/A," go to Section X.H.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                    | All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).                                                                                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |
| <b>H. Subpart H -Halon Emissions Reduction</b>                                                                          |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                                                                    | Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.                                                                                                                                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                                    | Disposal of halons or manufacturing of halon blends is conducted in the application area.                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| <b>XI. Miscellaneous</b>                                                                                                |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| <b>A. Requirements Reference Tables (RRT) and Flowcharts</b>                                                            |                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| 1.                                                                                                                      | The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.                                                                                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |

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| <b>XI. Miscellaneous (continued)</b>                                                                            |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |
| <b>B. Forms</b>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |
| ◆ 1.                                                                                                            | The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form.<br><i>If the response to Question XI.B.1 is "No" or "N/A," go to Section XI.C.</i>                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                            | Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below.<br><br>40 CFR 63 Subparts EEEE, DDDDD                                                                                                                                   |                                                                                                  |
| <b>C. Emission Limitation Certifications</b>                                                                    |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |
| ◆ 1.                                                                                                            | The application area includes units for which federally enforceable emission limitations have been established by certification.                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| <b>D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements</b> |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |
| 1.                                                                                                              | The application area is located at a site that is subject to a site-specific requirement of the state implementation plan (SIP).                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 2.                                                                                                              | The application area includes units located at the site that are subject to a site-specific requirement of the SIP.                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 3.                                                                                                              | The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator.<br><i>If the response to Question XI.D.3 is "Yes," please include a copy of the approval document with the application.</i>       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| 4.                                                                                                              | The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director.<br><i>If the response to Question XI.D.4 is "Yes," please include a copy of the approval document with the application.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |

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| <b>XI. Miscellaneous (continued)</b>                                                                                                 |                                                                                                                                                                                                                                                    |                                                                     |
| <b>E. Title IV - Acid Rain Program</b>                                                                                               |                                                                                                                                                                                                                                                    |                                                                     |
| 1.                                                                                                                                   | The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.                                                                                                                                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                   | The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.                                                                                                                                   | The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>F. 40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO<sub>x</sub> Ozone Season Group 2 Trading Program</b> |                                                                                                                                                                                                                                                    |                                                                     |
| 1.                                                                                                                                   | The application area includes emission units subject to the requirements of the CSAPR NO <sub>x</sub> Ozone Season Group 2 Trading Program.<br><i>If the response to Question XI.F.1 is "No," go to Question XI.F.7.</i>                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                   | The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO <sub>x</sub> and heat input.                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3.                                                                                                                                   | The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO <sub>x</sub> , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4.                                                                                                                                   | The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO <sub>x</sub> , and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input. | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 5.                                                                                                                                   | The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO <sub>x</sub> and heat input.                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6.                                                                                                                                   | The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO <sub>x</sub> and heat input.                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 7.                                                                                                                                   | The application area includes emission units that qualify for the CSAPR NO <sub>x</sub> Ozone Season Group 2 retired unit exemption.                                                                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                                                                                                            |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>XI. Miscellaneous (continued)</b>                                                                                                                                                                       |                                                                     |
| <b>G. 40 CFR Part 97, Subpart FFFFF - Texas SO<sub>2</sub> Trading Program</b>                                                                                                                             |                                                                     |
| 1. The application area includes emission units complying with the requirements of the Texas SO <sub>2</sub> Trading Program.<br><i>If the response to Question XI.G.1 is "No," go to Question XI.G.6.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO <sub>2</sub> and 40 CFR Part 75, Subpart H for heat input.                        | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 3. The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO <sub>2</sub> and heat input.                              | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 4. The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO <sub>2</sub> and heat input.                       | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 5. The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO <sub>2</sub> and heat input.                    | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6. The application area includes emission units that qualify for the Texas SO <sub>2</sub> Trading Program retired unit exemption.                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>H. Permit Shield (SOP Applicants Only)</b>                                                                                                                                                              |                                                                     |
| 1. A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>XI. Miscellaneous (continued)</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| <b>I. GOP Type (Complete this section for GOP applications only)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                 | The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 2.                                                                 | The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 3.                                                                 | The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.                                                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 4.                                                                 | The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County. | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| ◆ 5.                                                                 | The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>J. Title 30 TAC Chapter 101, Subchapter H</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |
| ◆ 1.                                                                 | The application area is located in a nonattainment area.<br><i>If the response to Question XI.J.1 is "No," go to Question XI.J.3.</i>                                                                                                                                                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 2.                                                                 | The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.                                                                                                                                                                                                                                                                                                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 3.                                                                 | The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

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For SOP applications, answer ALL questions unless otherwise directed.

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|                                                              |                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>XI. Miscellaneous (continued)</b>                         |                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| <b>J. Title 30 TAC Chapter 101, Subchapter H (continued)</b> |                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| ◆ 4.                                                         | The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO <sub>x</sub> .<br><i>If the response to Question XI.J.4 is "Yes," go to Question XI.J.6.</i>                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 5.                                                         | The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities previously had a collective uncontrolled design capacity to emit 10 tpy or more of NO <sub>x</sub> and is subject to 101.351(c).                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| 6.                                                           | The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.                                                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 7.                                                         | The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 8.                                                         | The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <b>K. Periodic Monitoring</b>                                |                                                                                                                                                                                                                                                                                                                                                    |                                                                     |
| ◆ 1.                                                         | The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.<br><i>If the response to Question XI.K.1 is "Yes," go to Section XI.L.</i>                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 2.                                                         | The permit currently contains at least one periodic monitoring requirement.<br><i>If the responses to Questions XI.K.1 and XI.K.2 are both "No," go to Section XI.L.</i>                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 3.                                                         | All periodic monitoring requirements are being removed from the permit with this application.                                                                                                                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| XI. Miscellaneous (continued)      |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| L. Compliance Assurance Monitoring |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |
| ◆ 1.                               | The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source.<br><i>If the response to Question XI.L.1 is "No," go to Section XI.M.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 2.                               | The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement.<br><i>If the response to Question XI.L.2 is "No," go to Section XI.M.</i>                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 3.                               | The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 4.                               | The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application.<br><i>If the responses to Questions XI.L.3 and XI.L.4 are both "No," go to Section XI.M.</i>                                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5.                                 | The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.                                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6.                                 | Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.                                                                                                                                                                                                                                                   |                                                                     |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |
| ◆ 7.                               | At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 8.                               | All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).<br><i>If the response to Question XI.L.8 is "Yes," go to Section XI.M.</i>                                                                                                                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                         |                                                                                                                                                                                                                                         |                                                                                                  |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>XI. Miscellaneous (continued)</b>                                                                    |                                                                                                                                                                                                                                         |                                                                                                  |
| <b>L. Compliance Assurance Monitoring (continued)</b>                                                   |                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 9.                                                                                                    | At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses particulate matter, and the emission unit has a capture system as defined in 40 CFR §64.1.                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 10.                                                                                                   | At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |
| ◆ 11.                                                                                                   | At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses a regulated pollutant other than particulate matter or VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 12.                                                                                                   | The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| <b>M. Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times</b> |                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                    | The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004.<br><i>If the response to Question XI.M.1 is "No," or "N/A," go to Section XII.</i>                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| ◆ 2.                                                                                                    | All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| <b>XII. New Source Review (NSR) Authorizations</b>                                                      |                                                                                                                                                                                                                                         |                                                                                                  |
| <b>A. Waste Permits with Air Addendum</b>                                                               |                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 1.                                                                                                    | The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum.<br><i>If the response to XII.A.1 is "Yes," include the waste permit numbers and issuance date in Section XII.J.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| XII. New Source Review (NSR) Authorizations (continued) |                                                                                                                                                                                                                                                                                                                            |                                                                     |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| B. Air Quality Standard Permits                         |                                                                                                                                                                                                                                                                                                                            |                                                                     |
| ◆ 1.                                                    | The application area includes at least one Air Quality Standard Permit NSR authorization.<br><i>If the response to XII.B.1 is "No," go to Section XII.C. If the response to XII.B.1 is "Yes," be sure to include the standard permit's registration numbers in Section XII.H and answer XII.B.2 - B.16 as appropriate.</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 2.                                                    | The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.                                                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 3.                                                    | The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.                                                                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ◆ 4.                                                    | The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.                                                                                                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 5.                                                    | The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.                                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 6.                                                    | The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 7.                                                    | The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.                                                                                                                                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 8.                                                      | The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 9.                                                      | The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 10.                                                     | The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

| XII. New Source Review (NSR) Authorizations (continued) |                                                                                                                                                                                              |                                                                     |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| B. Air Quality Standard Permits (continued)             |                                                                                                                                                                                              |                                                                     |
| ◆ 11.                                                   | The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 12.                                                   | The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization.<br><i>If the response to XII.B.12 is "No," go to Question XII.B.15.</i> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 13.                                                   | For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 14.                                                   | For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |
| ◆ 15.                                                   | The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 16.                                                   | The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.                                                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| C. Flexible Permits                                     |                                                                                                                                                                                              |                                                                     |
| 1.                                                      | The application area includes at least one Flexible Permit NSR authorization.                                                                                                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| D. Multiple Plant Permits                               |                                                                                                                                                                                              |                                                                     |
| 1.                                                      | The application area includes at least one Multi-Plant Permit NSR authorization.                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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**XII. NSR Authorizations (Attach additional sheets if necessary for sections XII.E-J.)**

**E. PSD Permits and PSD Major Pollutants**

| Permit No. | Issuance Date | Pollutant(s): | Permit No. | Issuance Date | Pollutant(s): |
|------------|---------------|---------------|------------|---------------|---------------|
| PSDTX996M1 | 05/08/2020    | SO2, CO       |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |

If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: [www.tceq.texas.gov/permitting/air/titlev/site/site\\_experts.html](http://www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html).

**F. Nonattainment (NA) Permits and NA Major Pollutants**

| Permit No. | Issuance Date | Pollutant(s): | Permit No. | Issuance Date | Pollutant(s): |
|------------|---------------|---------------|------------|---------------|---------------|
|            |               |               |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |

If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: [www.tceq.texas.gov/permitting/air/titlev/site/site\\_experts.html](http://www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html).

**G. NSR Authorizations with FCAA § 112(g) Requirements**

| NSR Permit No. | Issuance Date | NSR Permit No. | Issuance Date | NSR Permit No. | Issuance Date |
|----------------|---------------|----------------|---------------|----------------|---------------|
|                |               |                |               |                |               |
|                |               |                |               |                |               |
|                |               |                |               |                |               |
|                |               |                |               |                |               |



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**XII. NSR Authorizations (continued) - (Attach additional sheets if necessary for sections XII.E-J.)**

- ◆ **H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area**

| Authorization No. | Issuance Date | Authorization No. | Issuance Date | Authorization No. | Issuance Date |
|-------------------|---------------|-------------------|---------------|-------------------|---------------|
| 4600              | 07/14/2022    | 20211             | 09/16/2019    | 96220             | 07/14/2022    |
| 5259              | 02/21/2020    | 28441             | 05/05/2020    | 117789            | 02/07/2023    |
| 8586              | 07/08/2021    | 36476             | 05/08/2020    | 149177            | 11/23/2022    |
| 9571              | 12/29/2022    | 157358            | 07/02/2019    | 151366            | 05/18/2018    |
| PAL16             | 09/16/2019    |                   |               |                   |               |

- ◆ **I. Permits by Rule (30 TAC Chapter 106) for the Application Area**

*A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.*

| PBR No. | Version No./Date | PBR No. | Version No./Date | PBR No. | Version No./Date |
|---------|------------------|---------|------------------|---------|------------------|
| 106.261 | 12/24/1998       | 106.262 | 09/04/2000       | 106.266 | 09/04/2000       |
| 106.261 | 09/04/2000       | 106.262 | 11/01/2003       | 106.371 | 09/04/2000       |
| 106.261 | 11/01/2003       | 106.263 | 11/01/2001       | 106.472 | 09/04/2000       |
| 106.262 | 12/24/1998       | 106.264 | 09/04/2000       | 106.473 | 09/04/2000       |
| 106.478 | 09/04/2000       | 106.511 | 09/04/2000       | 106.512 | 03/14/1997       |
| 106.512 | 06/13/2001       | 106.533 | 03/14/1997       | 106.533 | 09/04/2000       |

- ◆ **J. Municipal Solid Waste and Industrial Hazardous Waste Permits with an Air Addendum**

| Permit No. | Issuance Date | Permit No. | Issuance Date | Permit No. | Issuance Date |
|------------|---------------|------------|---------------|------------|---------------|
|            |               |            |               |            |               |
|            |               |            |               |            |               |
|            |               |            |               |            |               |
|            |               |            |               |            |               |



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

APR 14 2004

Ms. Winnie Schubert  
Environmental Section Manager  
ExxonMobil Corporation - Baytown Chemical Plant  
P.O. Box 3050  
Baytown, Texas 77522-3960

Re: Request for Approval -  
Alternative Monitoring Plan,  
New Source Performance Standards (NSPS)  
40 CFR Part 60, Subparts NNN  
TCEQ Account No. HG-0229-F

Dear Ms. Schubert:

This letter is in response to your request for approval of an alternative monitoring plan (AMP), dated June 4, 1991. You indicated that the AMP approval request is for specific distillation units which are affected facilities at the American Acryl Bayport Complex which are subject to NSPS Subpart NNN, 40 CFR 60.663(a)(2). These affected facilities are located at the Baytown, Texas facility, owned and operated by ExxonMobil Corporation - Baytown Chemical Plant. ("ExxonMobil").

Your AMP request letter, dated June 4, 1991, indicated that the following distillation unit vent streams are subject to the emission standards of NSPS Part 60, Subpart NNN, specifically 40 Code of Federal Regulations (CFR) § 60.662(a):

Propylene Concentration Unit  
T-121A  
T-121B

Isoamylene Unit  
D-820 Overhead  
D-860 Overhead

You stated that these vent streams are routed to a fuel gas system, combined with natural gas, and burned as primary fuel for boilers and heaters throughout the ExxonMobil Baytown facility. You requested the approval of an alternative monitoring plan as allowed by NSPS Subpart NNN 60.663(f). You proposed the following alternative monitoring plan:

1. Continuously monitor the flow indicator(s) identified for each combustion device and maintain records of average hourly flow.
2. Continuously monitor the stack temperature indicators(s) for each combustion unit and maintain records of the hourly average temperature.

Internet Address (URL) - <http://www.epa.gov/eairh1r6/>

Recycled/Recyclable - Printed with Vegetable Oil Based Inks on Recycled Paper (Minimum 30% Postconsumer)

3. Maintain the automatic fuel gas shutdown system in good working order and maintain records of any problems with each system.

Pursuant to NSPS Part 60, Subpart A at 40 CFR § 60.13(i), and 60.663(f), EPA Region 6 approves your alternative monitoring plan above, with the additional following conditions:

4. ExxonMobil will maintain a record of the combustion equipment associated with each vent stream above and make that record available to any state or federal agency.

5. Maintain records of down time of the fuel gas system.

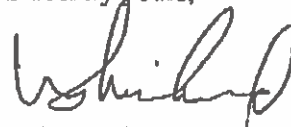
6. ExxonMobil shall comply with the testing and reporting requirements of NSPS Subpart NNN.

This approval of an AMP determination is based on the information submitted to EPA on June 4, 1991. If any information is found that would reverse this determination, then it would become invalid and a new determination would be needed.

Alternative monitoring system determinations for other process units subject to NSPS Part 60 are to be addressed on a request-by-request basis.

If you have any questions concerning this determination, please contact Anupa Ahuja at (214) 665-2701.

Sincerely yours,



Mike Michaud  
Acting Chief  
Air/Toxics and Inspection  
Coordination Branch

cc: Joe Janecka (TCEQ)

EXXON CHEMICAL AMERICAS



Baytown Chemical Plant

K. A. Fulton  
SITE MANAGER

June 4, 1991

BTCPA Alternative  
Monitoring Plan  
for NSPS NNN

Environmental Protection Agency  
Air Enforcement Branch (6T-E)  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202  
Attention: Mr. John Hepola

Reference: 40 CFR 60 Subpart NNN VOC Emissions from SOCM Distillation Operations

Dear Mr. Hepola:

This letter is to request agency approval of proposed alternative monitoring requirements for certain vent streams to comply with the EPA NSPS Distillation Operation regulations at the Exxon Chemical Americas, Baytown Chemical Plant. For clarity, a summary of the affected process units, the affected vent streams, the method of compliance and the applicable standard for each is provided in Attachment I.

Attachment II comprises Exxon's proposal for alternative monitoring requirements. The affected vent streams are those captured and recovered as primary fuel in the plant fuel gas system. We are confident that use of the vent gases in this manner easily meets the control requirements of the regulation. However, this type of system was not envisioned during the development of the regulations and the monitoring requirements, as written, are not appropriate for such systems.

If you need any additional information, please call me at (713) 425-1142.

Sincerely,

A handwritten signature in dark ink, appearing to read "W. F. Buchholtz", written over a horizontal line.

W. F. Buchholtz

WFB:pwa

c: Steve Spaw - TACB, Austin  
Jodena Henneke - TACB, Bellaire

Attachment



Attachment IExxon Chemical Americas  
Baytown Chemical Plant40 CFR 60, Subpart NNN Distillation Operations  
Summary of Affected Facilities and Method of Compliance

| <u>Process Unit</u>                | <u>Process Vent</u>  | <u>Vent Control</u>    | <u>Standard</u> |
|------------------------------------|----------------------|------------------------|-----------------|
| Paraxylene Unit                    | T-430 Overhead       | Fuel System, Flare #9  | 60.662(a)(b)    |
|                                    | T-310 Vent Condenser | Fuel System, Flare #9  | 60.662(a)(b)    |
|                                    | T-320 Vent Condenser | Fuel System, Flare #9  | 60.662(a)(b)    |
|                                    | T-360 Vent Condenser | Fuel System, Flare #9  | 60.662(a)(b)    |
|                                    | T-361 Vent Condenser | Fuel System, Flare #9  | 60.662(a)(b)    |
| Propylene<br>Concentration<br>Unit | T-110 Overhead       | Fuel System, Flare #9  | 60.662(a)(b)    |
| Isoamylene Unit                    | D-820 Overhead       | Fuel System, Flare #23 | 60.662(a)(b)    |
|                                    | D-860 Overhead       | Fuel System, Flare #23 | 60.662(a)(b)    |
| EXXPAR<br>Purification<br>Unit     | T-620 Vent           | Fuel System, Flare #23 | 60.662(a)(b)    |
| Polyisobutylene<br>Unit            | T-704 Vent           | Fuel System, Flare #9  | 60.662(a)(b)    |

Notes:

- 1) Flare #9 and #23 are in full compliance with 40 CFR 60.18(c).
- 2) Refer to Attachment I for the proposed monitoring requirements for these systems.

## Attachment II

### Exxon Chemical Americas Baytown Chemical Plant

#### 40 CFR 60, Subpart NNN Distillation Operations Proposal for Alternative Monitoring Requirements

The vent streams in the Baytown Chemical Plant (BTCP) that are currently affected by NSPS Subpart NNN are used as fuel in the Exxon Baytown Complex Fuel gas System. Other vent streams from BTCP, the Exxon Baytown Olefins Plant (BOP) and the Exxon Baytown Refinery are also blended in the system for fuel use. Natural gas is added to the system as needed to maintain system pressure while the resultant mixture is burned as primary fuel in process furnaces and boilers throughout the complex. We are confident that use of vent gases in this manner, easily exceeds the control requirements of the regulation, 98% VOC reduction or 20 ppm VOC, under all normal operating conditions. This is vividly illustrated by the explosion safety hazards posed by uncombusted primary fuel in combustion devices such as process furnaces. In addition, data was provided to Ms. Debbie Stackhouse (EPA, Raleigh-Durham) that demonstrates the characteristic combustion efficiency of primary fuel used in process furnaces at the Baytown Complex. Operation of this system is discussed in more detail in Attachment III.

This type of control was clearly not envisioned during the development of the NSPS Distillation regulation. As a result, the monitoring requirements, as written, are not appropriate for our type of fuel gas system. Therefore, as previously discussed, we are submitting alternative monitoring requirements which we propose to utilize to satisfy compliance with NSPS Subpart NNN. Attachment IV lists each combustion device that is fueled by the Baytown Complex Fuel Gas System and the corresponding computer designation tag for stack temperature and fuel gas flow. Also, each combustion device has an automatic fuel-gas shutdown system that is part of our safety facilities to prevent a potential explosion due to loss of burner flame.

We propose the following alternative monitoring requirements:

- Continuously monitor the flow indicator(s) identified for each combustion device and maintain records of average hourly flow. These records will be maintained in the process computers at the units, while historic data will be maintained in back-up files.
- Continuously monitor the stack temperature indicator(s) for each combustion unit and maintain records of the hourly average temperature. This information, coupled with the fuel flow data, is a good indication of operational status of the combustion device. These records will be maintained in the process computers at the units, while historic data will be maintained in back-up files.
- Maintain the automatic fuel gas shutdown system in good working order and maintain records of any problems with each system.

Attachment II

## Page 2

- Provide a semi-annual report to the agency indicating:
  - + all periods when a vent stream is diverted from a specified control device to the atmosphere.
  - + all periods when a combustion device has a measured flow and a low stack temperature (i.e., ambient) which is indicative of loss of combustion device burner and pilot flames. It should be noted that independent pilots are provided as part of the safety facilities.
  - + any identified problems with the performance of the automatic fuel gas shutdown system.
  - + any change in equipment or process operation that affects the above stated compliance requirements.

We request the agency confirm these monitoring and record keeping requirements as an acceptable alternative to the requirements specified in NSPS Subpart NNN.

### Attachment III

#### Exxon Chemical Americas Baytown Chemical Plant

#### 40 CFR 60, Subpart NNN Distillation Operations Detailed Description of the Baytown Complex Fuel Gas System

The Exxon Baytown Complex Fuel Gas System provides high quality fuel to combustion devices at the Exxon Baytown Refinery (BTRF), Baytown Chemical Plant (BTCP) and Baytown Olefins Plant (BOP). The system produces approximately 44.5 billion standard cubic feet (SCF) of blended gas each year with an average heating value of 1100 BTU/SCF. The composition of the blend gas is similar to that of natural gas and the VOC content of the gas is approximately 9% (see Table 1).

Only gas streams of suitable quality and heating value are collected, conditioned, and used as primary fuel in process furnaces and boilers. These gas streams include NSPS distillation unit streams from BTCP and BOP. However, the majority includes non-NSPS regulated vent and production gas streams from BTRF, BTCP and BOP operations. Pressure in the system is maintained by the addition of natural gas since the production of gas streams for fuel use is normally not sufficient to meet the fuel demands of the Baytown Complex.

Depending on the specific gas stream involved, the gas may or may not be compressed to remove condensables before blending. All condensed liquids are recycled and recovered as feed material to the refinery. The use of condensable materials as feedstock and the use of non-condensables as primary fuel ensures a TOC reduction well in excess of 98 wt.% from uncontrolled emissions for all NSPS distillation vent streams entering the Fuel Gas System.

During normal operating conditions, the site fuel demand is sufficient to absorb the production of all gas streams and requires the addition of natural gas in varying quantities to maintain good pressure control. In the event of an upset, such as the release of a large safety valve to the system, the excess gas stream is relieved to a BTCP flare (Flare Stack #23 or #9). Once the upset is past, the release to the flare automatically ceases. These flares do meet NSPS control requirements to ensure at least a 98 wt.% reduction in TOC from uncontrolled emissions.

A simplified flow diagram explaining the Baytown Complex Fuel Gas System is provided in Figure 1.



Figure 1

# BTCP NSPS VENT STREAMS TO FLARE AND BLEND GAS SYSTEMS

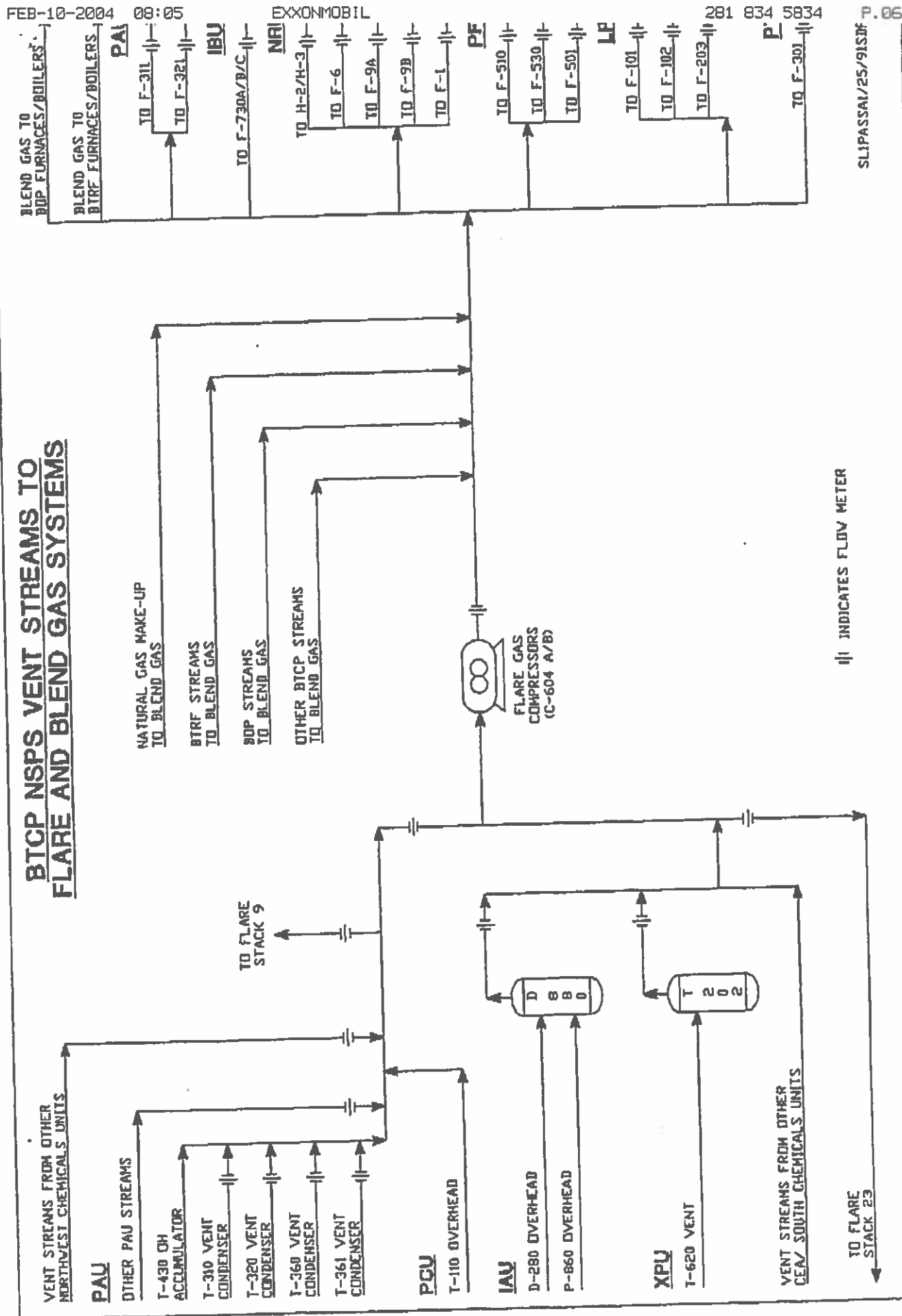


Table 1

Exxon Chemical Americas  
Baytown Chemical Plant

40 CFR 60, Subpart NNN Distillation Operations  
Composition of Exxon Baytown Complex Fuel Gas

| <u>Material</u>  | <u>Mole %</u> |
|------------------|---------------|
| CO <sub>2</sub>  | 1             |
| N <sub>2</sub>   | 2             |
| H <sub>2</sub>   | 23            |
| C <sub>1</sub>   | 50            |
| C <sub>2</sub>   | 15            |
| C <sub>3</sub>   | 6             |
| C <sub>4</sub>   | 3             |
| C <sub>5</sub> + | 0             |

## ATTACHMENT IV

**EXXON CHEMICAL AMERICAS - BAYTOWN CHEMICAL PLANT**  
**COMBUSTION DEVICES (<44 MW) USING COMPLEX FUEL SYSTEM**

| PLANT LOCATION  | OPERATING UNIT     | FURNACE NUMBER | FUEL GAS FLOW TAG           | STACK TEMP. TAG |
|-----------------|--------------------|----------------|-----------------------------|-----------------|
| F-FUELS WEST    | CLEU-1             | B-2            | FWC1F111                    | FWC1T113        |
| F-FUELS WEST    | CLEU-2             | F-1            | FWC2F207                    | FWC2T206        |
| F-FUELS WEST    | CLEU-2             | F-2            | FWC2F215                    | FWC2T234        |
| F-FUELS WEST    | CLEU-2             | F-3            | FWC2IF921                   | FWC2T970        |
| F-FUELS WEST    | CLEU-3             | F-1            | FWC4F363                    | FWC3T341        |
| F-FUELS WEST    | HDU#1              | F-701          | FWHDF627                    | FWHDT638        |
| F-FUELS WEST    | HDU#1              | F-702          | FWHDF628                    | FWHDT639        |
| F-FUELS WEST    | HYDROFORMER#3      | F-1            | FWHDC115A                   | FWHCT117        |
| F-FUELS WEST    | HYDROFORMER#3      | F-1            | FWHDC211                    | FWHCT117        |
| F-FUELS WEST    | HYDROFORMER#3      | F-2            | FWHCF140A                   | FWHCT142        |
| F-FUELS WEST    | HYDROFORMER#3      | F-2            | FWHCF212                    | FWHCT142        |
| F-FUELS WEST    | HYDROFORMER#3      | F-3            | FWHCF165A                   | FWHCT167        |
| F-FUELS WEST    | HYDROFORMER#3      | F-3            | FWHCF213                    | FWHCT167        |
| F-FUELS WEST    | HYDROFORMER#3      | F-4            | FWHCF190A                   | FWHCT192        |
| F-FUELS WEST    | HYDROFORMER#3      | F-4            | FWHCF214                    | FWHCT192        |
| F-FUELS WEST    | HYDROFORMER#3      | F-6            | FWHCF242A                   |                 |
| F-FUELS WEST    | HYDROFORMER#3      | F-7            | FWHCF255A                   | FWHCT257        |
| F-FUELS WEST    | FCCU#2             | F-1-A          | FWFCF978                    | FWFCT774        |
| F-FUELS WEST    | FCCU#2             | F-2-A          | FWFCF980                    | FWFCT775        |
| F-FUELS WEST    | GOFINER-1          | F-201          | FNGFF417                    | FNGFD415        |
| F-FUELS NORTH   | GOFINER-1          | F-227          | FNGFF467                    | FNGFD465        |
| RF-FUELS NORTH  | HGU-1              | F-101          | FNHGF106 (FLOOR BURNERS)    | FNHGD112(NORTH) |
| RF-FUELS NORTH  | HGU-1              | F-101          | FNHGF106 (FLOOR BURNERS)    | FNHGD113(SOUTH) |
| RF-FUELS NORTH  | HGU-1              | F-101          | FNHGF103 (WALL BURNERS)     | FNHGD112(NORTH) |
| RF-FUELS NORTH  | HGU-1              | F-101          | FNHGF103 (WALL BURNERS)     | FNHGD113(SOUTH) |
| RF-FUELS NORTH  | HGU-1              | F-121          | FNHGF151 (FLOOR BURNERS)    | FNHGD131(NORTH) |
| RF-FUELS NORTH  | HGU-1              | F-121          | FNHGF151 (FLOOR BURNERS)    | FNHGD132(SOUTH) |
| RF-FUELS NORTH  | HGU-1              | F-121          | FNHGP147 (WALL BURNERS)     | FNHGD131(NORTH) |
| RF-FUELS NORTH  | HGU-1              | F-121          | FNHGP147 (WALL BURNERS)     | FNHGD132(SOUTH) |
| RF-FUELS NORTH  | FLEXICOKER         | F-301          | FNKUF513 (CELL-1)           | FNKUD341        |
| RF-FUELS NORTH  | FLEXICOKER         | F-301          | FNKUF512 (CELL-1)           | FNKUD341        |
| RF-FUELS NORTH  | FLEXICOKER         | F-301          | FNKUF516 (CELL-2)           | FNKUD341        |
| RF-FUELS NORTH  | FLEXICOKER         | F-301          | FNKUF515 (CELL-2)           | FNKUD341        |
| RF-FUELS NORTH  | FLEXICOKER         | WHB-301        | FNKUF526A                   | FNKUD408        |
| RF-FUELS NORTH  | FLEXICOKER         | WHB-301        | FNKUF528 (AUX BURNER)       | FNKUD408        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-401          | FNH4F442                    | FNH4D439        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-401          | FNH4F443                    | FNH4D439        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-402          | FNH4F449                    | FNH4D447        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-402          | FNH4F450                    | FNH4D447        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-403          | FNH4F456                    | FNH4D455        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-403          | FNH4F457                    | FNH4D455        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-404          | FNH4F463                    | FNH4D463        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-404          | FNH4F464                    | FNH4D463        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-405          | FNH4F440                    | FNH4D459        |
| RF-FUELS NORTH  | HYDROFORMER#4      | F-701          | FNNHF710                    | FNNHD716        |
| TRF-FUELS NORTH | NAPHTHA HYDROFINER | F-1            | LUIF631                     | LUT668          |
| TRF-LUBES       | LHU#2              | F-3            | LUIF633                     | LUT645          |
| TRF-LUBES       | MEK                | B-3            | MDIF528 (WASTE HEAT BOILER) | MDT587 (SOUTH)  |
| TRF-LUBES       | MEK                | B-3            | MDIF528 (WASTE HEAT BOILER) | MDT588 (NORTH)  |
| TRF-LUBES       | LDU                | B-3            | LULDF723                    | LULDT749        |
| TRF-LUBES       | LDU                | B-3            | LULDF723                    | LULDT750        |
| TRF-LUBES       | PDU                | B-2            | LUPDF839                    | LUPDT879        |
| TRF-LUBES       | SDU/RRU            | F-2            | LUSDF213                    | LUSDT286        |
| TRF-LUBES       | SDU/HFU            | F-3            | LUSDF239                    | LUSDT269        |
| TRF-LUBES       | LXU-1              | B-1            | LUL1F262                    | LUL1T291        |
| TRF-LUBES       | LXU-1              | B-2            | LUL1F235                    | LUL1T292        |
| TRF-LUBES       | LXU-1              | B-4            | LUL1F261                    | LUL1T294        |
| TRF-LUBES       | LXU-1              | B-5            | LUL1F612 (UNDER CONSTR)     | LUL1T629        |
| TRF-LUBES       | LXU-2              | B-1            | LUL2F057                    | LUL2T102        |
| TRF-LUBES       | LXU-2              | B-2            | LUL2F058                    | LUL2T111        |
| TRF-LUBES       | LXU-2              | B-3            | LUL2F085                    | LUL2T116        |
| TRF-LUBES       | LXU-2              | B-4            | LUL2F133                    | LUL2T146        |

| PLANT-<br>LOCATION | OPERATING<br>UNIT | FURNACE<br>NUMBER | FUEL GAS<br>FLOW TAG | TAG               |
|--------------------|-------------------|-------------------|----------------------|-------------------|
| CRUDE DIST         | PIPE STILL#3      | F-301             | CDV3F301             | CDV3T192          |
| CRUDE DIST         | PIPE STILL#3      | F-302             | CDV3F201             | CDV3T193          |
| CRUDE DIST         | PIPE STILL#3      | F-303             | CDP3F234 (EAST SIDE) | CDP3T046          |
| CRUDE DIST         | PIPE STILL#3      | F-303             | CDP3F202 (WEST SIDE) | CDP3T046          |
| CRUDE DIST         | PIPE STILL#3      | F-304             | CDP3F203 (EAST SIDE) | CDP3T046          |
| CRUDE DIST         | PIPE STILL#3      | F-304             | CDP3F236 (EAST SIDE) | CDP3T046          |
| CRUDE DIST         | PIPE STILL#3      | F-305             | CDP3F395 (EAST SIDE) | CDP3T043          |
| CRUDE DIST         | PIPE STILL#7      | F-701-A           | CDN7F617             | CDN7T865          |
| CRUDE DIST         | PIPE STILL#7      | F-701-B           | CDN7F616             | CDN7T871          |
| CRUDE DIST         | PIPE STILL#7      | F-702-A           | CDS7F637             | CDS7T877          |
| CRUDE DIST         | PIPE STILL#7      | F-702-B           | CDS7F639             | CDS7T921          |
| CRUDE DIST         | PIPE STILL#7      | F-705             | CDN7F634             | CDN7T905          |
| CRUDE DIST         | PIPE STILL#7      | F-705             | CDN7F908             | CDN7T905          |
| CRUDE DIST         | PIPE STILL#7      | F-706             | CDS7F724             | CDS7T682          |
| CRUDE DIST         | PIPE STILL#7      | F-706             | CDS7F910             | CDS7T682          |
| CRUDE DIST         | PIPE STILL#7      | F-706             | CDS7F724             | CDS7T682          |
| CRUDE DIST         | PIPE STILL#7      | F-706             | CDS7F910             | CDS7T682          |
| LIGHT ENDS         | COLUMN-16         | F-506             | L1F544               | L1T587            |
| LIGHT ENDS         | COLUMN-15         | F-601             | L2F621               | L2T618            |
| LIGHT ENDS         | COLUMN-15         | F-602             | L2F622               | L2T623            |
| LIGHT ENDS         | COLUMN-15         | F-603             | L2F623               | L2T628            |
| LIGHT ENDS         | COLUMN-14         | F-804             | L2F812               | L2T817            |
| LIGHT ENDS         | COLUMN-14         | F-804             | L2F812               | L2T818            |
| LIGHT ENDS         | NFU               | F-902             | NFF909 (WH BOILER)   | NFT950            |
| LIGHT ENDS         | ALKY PLANT        | B-401             | ACF467               | ACT385            |
| LIGHT ENDS         | ALKY PLANT        | F-301             | ACF466               | ACT388            |
| FUELS EAST         | FCCU#3            | F-103             | FEF1CF079            | FEF1T223(S.STACK) |
| FUELS EAST         | FCCU#3            | F-103             | FEF1CF079            | FEF1T224(N.STACK) |
| FUELS EAST         | FCCU#3            | F-105             | FEF1CF081            | FEF1T026          |
| FUELS EAST         | HCU#1             | F-701             | FEH1CF880            | FEH1T052          |
| FUELS EAST         | HCU#1             | F-810             | FEH2IF866            | FEH2T795          |
| FUELS EAST         | HDU#2             | F-601             | TO BE DISMANTLED     |                   |
| FUELS EAST         | HDU#2             | F-602             | TO BE DISMANTLED     |                   |
| HYDROFINING        | SFU               | F-751             | HFF758               | HFD236            |
| HYDROFINING        | SFU               | F-721             | HFF778               | HFD237            |
| HYDROFINING        | SFU               | F-721             | HFF778               | HFD238            |
| HYDROFINING        | SFU               | F-731             | HFF788               | HFD239            |
| HYDROFINING        | SFU               | F-731             | HFF788               | HFD240            |
| HYDROFINING        | HU#5B             | F-551             | H5F353               | HFD249            |
| HYDROFINING        | HU#5A             | F-501             | H5F303               | H5D106            |
| HYDROFINING        | HU#4              | F-401             | H4F403               | H4D085            |
| HYDROFINING        | HU#4              | F-402             | H4F406               | H4D086            |
| HYDROFINING        | HU#6A             | F-101             | H6F119               | H6D458            |
| HYDROFINING        | HU#6B             | F-201             | H6F219               | H6D608            |
| HYDROFINING        | LHU#1             | H-601             | H1F616               | H1D143            |
| F                  | ASPHALT PLANT     | F-1               | F-026                | T-1-7             |
| F                  | ASPHALT PLANT     | F-2               | F-029                | T-1-8             |
| F                  | UTILITIES         | PB62              | UPF6231              | UPT6271           |
| F                  | UTILITIES         | PB63              | UPF6331              | UPT6371           |
| F                  | UTILITIES         | PB64              | UPF6431              | UPT6471           |
| F                  | UTILITIES         | WHB65             | UPF6531              | UPT6571           |
| F                  | UTILITIES         | WHB66             | UPF6631              | UPT6671           |
| F                  | UTILITIES         | WHB67             | UPF6731              | UPT677            |
| F                  | UTILITIES         | WHB68             | UPF6831              | UPT6871           |
| F                  | UTILITIES         | WHB71             | UPF7131              | UPT7171           |
| F                  | UTILITIES         | WHB72             | UPF7231              | UPT7271           |
| F                  | UTILITIES         | WHB73             | UPF7331              | UPT7371           |
| F                  | UTILITIES         | WHB73             | UPF7331              | UPT7371           |
| F                  | UTILITIES         | WHB74             | UPF7431              | UPT7471           |
| F                  | UTILITIES         | WHB75             | UPF7531              | UPT7571           |
| F                  | NRU               | COL7,F6           | EFF356               | EFU400            |
| F                  | NRU               | COL3/2,H3         | EFF049               | LTU051            |
| F                  | NRU               | F-1               | LFT363               | LTU420            |
| F                  | NRU               | H-2               | LFT043               | LTU051            |
| F                  | NRU               | F-9A              | NXF113               | NXT081            |
| F                  | NRU               | F-9B              | NXF101               | NXT085            |
| F                  | PFU               | F-510             | NXF513               | NXT103            |
| F                  | PFU               | F-501             | PFF503               | PFU018            |
| F                  | PFU               | F-530             | NXF521               | NXU081            |

STOP  
1LTT31,3  
LTF013

| PLANT<br>LOCATION | OPERATING<br>UNIT | FURNACE<br>NUMBER | FUEL GAS<br>FLOW TAG | TAG    |
|-------------------|-------------------|-------------------|----------------------|--------|
| P                 | LPU               | F-203             | LTF015               | LTT527 |
| P                 | LPU               | F-301             | PTF303               | PTU306 |
| P                 | LPU               | F-102V            | LPF119               | LPU024 |
| P                 | LPU               | F-102V            | LPF119               | LPU039 |
| P                 | LPU               | F-101             | LPF128               | LPU082 |
| P                 | LPU               | F-730A            | IBF714               | IBU090 |
| P                 | IBU               | F-730B            | IBF715               | IBU091 |
| P                 | IBU               | F-730C            | IBF716               | IBU092 |
| P                 | PAU               | F-311             | PAF377               | PAT354 |
| P                 | PAU               | F-321             | PAF379               | PAT358 |

Kathleen Hartnett White, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Larry R. Soward, *Commissioner*  
Glenn Slankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 8, 2004

Mr. Patrick B. Mullin  
ExxonMobil Downstream/Chemical  
ExxonMobil Corporation  
State Regulatory Advocacy  
P.O. Box 5660  
Kingwood, Texas 77325

Re: Approval of ExxonMobil Corporation's (ExxonMobil) Thin Film Sampling System for Monitoring of Highly Reactive Volatile Organic Compounds (HRVOC) from Cooling Tower Heat Exchange Systems as Required by Title 30 Texas Administrative Code (30 TAC), Chapter 115, Subchapter H, Division 2 for:

ExxonMobil Mont Belvieu Plastics Plant, Mont Belvieu, Montgomery County, Texas, Texas Commission on Environmental Quality (TCEQ) Regulated Entity No. RN102501020;

ExxonMobil Chemical Company Baytown Olefins Plant, Baytown, Harris County, Texas, TCEQ Regulated Entity No. RN102212925;

ExxonMobil Baytown Chemical Plant, Baytown, Harris County, Texas, TCEQ Regulated Entity No. RN102574803;

ExxonMobil Houston Olefins Plant, Houston, Harris County, Texas, TCEQ Regulated Entity No. RN102576063; and

ExxonMobil Baytown Refinery, Baytown, Harris County, Texas, TCEQ Regulated Entity No. RN102579307.

Dear Mr. Mullin:

The purpose of this letter is to respond to your letter dated September 28, 2004 requesting approval of ExxonMobil's thin film sampling system as an alternative to the Air Stripping Method in Appendix P of the TCEQ Sampling Procedures Manual to satisfy the cooling tower monitoring requirements in 30 TAC Chapter 115, Subchapter H, Division 2. ExxonMobil has performed a U.S. Environmental Protection Agency (EPA) Method 301 validation comparison between the thin film sampling system and the air stripping apparatus in the Appendix P Air Stripping Method to demonstrate that the alternative sampling system can produce equivalent results as the Appendix P system.

Mr. Patrick B. Mullin  
October 8, 2004  
page 2

TCEQ Emission Measurement Support Program (EMSP) has reviewed the request and the results of the Method 301 testing. Based on the information and test data submitted, the thin film sampling system meets all the criteria specified in Method 301 for ethylene, propylene, all isomers of butene, and 1,3-butadiene, with the exception of the correction factor for ethylene. The ethylene correction factor was determined to be 0.79, which is outside of the 0.90 to 1.10 range specified in Section 6.2.1.5 of Method 301; however, this indicates that the thin film sampling system provides a higher estimate of the amount of strippable ethylene in the cooling water. Therefore, TCEQ approves the use of ExxonMobil's thin film sampling system for performing cooling tower monitoring of ethylene, propylene, all isomers of butene, and 1,3-butadiene required in 30 TAC Chapter 115, Subchapter H, Division 2, with the provision that a correction factor of 0.90 must be used for ethylene. Correction factors for propylene, isomers of butene, and 1,3-butadiene shall be applied as specified in Method 301. Additionally, since the thin film sampling system has been demonstrated equivalent to the air stripping apparatus in Appendix P for these specific HRVOCs, except as noted for ethylene in this letter, ExxonMobil may use the thin film sampling system for collection of periodic manual samples for laboratory analysis of HRVOC as specified in 30 TAC §115.764. Correction factors shall be applied to laboratory analysis results of the manual samples as specified in this correspondence and in Method 301.

This approval is site-specific to the five ExxonMobil facilities indicated in this letter, and is only applicable to monitoring performed as required by 30 TAC Chapter 115, Subchapter H, Division 2. If you have any questions concerning this approval, please contact me at the letterhead address, Mail Code MC-171, or by telephone at (512) 239-6041. You may also contact me by email at [vmeiller@tceq.state.tx.us](mailto:vmeiller@tceq.state.tx.us).

Sincerely,



Vincent R. Meiller  
Emission Measurement Support Program  
Regulatory Compliance Section  
Compliance Support Division

VRM



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 14, 2018

Ms. Kimberly Buckles  
ExxonMobil  
5000 Bayway Drive  
Baytown, Texas 77520

Re: Request for Modification to Monitoring for 30 Texas Administrative Code (TAC)  
Chapter 115 Highly-Reactive Volatile Organic Compound (HRVOC) Rules

Dear Ms. Buckles:

This letter is in response to ExxonMobil's request dated August 23, 2018 regarding modifications to the HRVOC monitoring requirements under Chapter 115, §115.725 for the flare identified as Emission Point Number (EPN) FS30 to be constructed at the ExxonMobil Baytown Chemical Expansion Project (BTEP) in Baytown, Texas. As allowed by §115.725(m)(1), ExxonMobil intends to use of an online calorimeter to determine net heating value (NHV) of the flare gas stream in lieu of the constituent monitoring approach in §115.725(d)(2). ExxonMobil is requesting approval to use the online calorimeter's specific gravity sensor to determine molecular weight of the flare waste gas in lieu of monitoring non-HRVOC constituents according to §115.725(d)(2). Additionally, a natural gas supplemental line will feed into the flare tower downstream of the monitoring systems on the main flare header to Flare EPN FS30. While the natural gas flow rate in the supplemental line will be monitored by a flow monitor, ExxonMobil is requesting approval to not monitor the constituents or NHV on the natural gas supplemental line and to use the flow-weighted NHV average of the natural gas supplemental line and the waste gas line to demonstrate compliance with NHV requirements of §115.722(d).

Section 115.725(m) allows the executive director to approve minor modifications to the required monitoring methods or alternate monitoring methods if validated according to 40 Code of Federal Regulations, Part 63, Appendix A, Method 301. The specific gravity cells equipped on the online calorimeter used by ExxonMobil will provide adequate accuracy of the flare gas specific gravity to determine molecular weight for the purposes of §115.725(d)(2). The TCEQ approves ExxonMobil's request to use the calorimeter's specific gravity cell to determine the molecular weight of the flare waste gas in lieu of monitoring non-HRVOC as required by §115.725(d)(2). The HRVOC constituent monitoring requirements of §115.725(d)(2) continue to apply to the flare waste gas line. Additionally, as the natural gas supplemental line is pipeline grade natural gas, the TCEQ also approves ExxonMobil's request regarding monitoring the supplemental natural gas line. The TCEQ waives the constituent monitoring requirements in §115.725(d)(2) for the natural gas supplemental line feeding into Flare



Ms. Kimberly Buckles

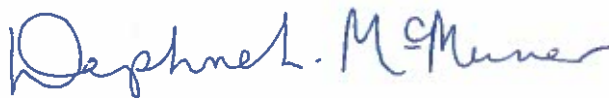
Page 2

September 14, 2018

EPN FS30. ExxonMobil shall use the natural gas supplier's data for determining the NHV, HRVOC content, and molecular weight of the natural gas supplemental line. Alternatively, ExxonMobil may perform sampling and analysis to determine the NHV, HRVOC content, and molecular weight of the natural gas supplemental line. If ExxonMobil elects this option, the sampling and analysis of the natural gas supplemental line must be performed at least once per year using standard ASTM or GPA Midstream Association methods.

This approval is specific to Flare EPN FS30 located at the ExxonMobil BTEP facility and is only applicable to the monitoring requirements of 30 TAC Chapter 115, Subchapter H, Division 1. While ExxonMobil's requested modifications may be considered a major modification to the monitoring requirements of §115.725, the TCEQ waives the Method 301 validation requirement because such a validation is unnecessary in this case. If you have any questions regarding the TCEQ's determination regarding these approvals, please contact Vincent Meiller of the Air Quality Planning Section at the letterhead address, Mail Code MC-206, by telephone at 512-239-6041, or by e-mail at [Vincent.Meiller@tceq.texas.gov](mailto:Vincent.Meiller@tceq.texas.gov).

Sincerely,

A handwritten signature in blue ink that reads "Daphne L. McMurrer". The signature is fluid and cursive, with the first name "Daphne" being the most prominent part.

Daphne McMurrer, Acting Manager  
Air Quality Planning Section

## **4.2 Negative Applicable Requirement Determinations (*Form OP-REQ2*)**

Form OP-REQ2 is a mechanism by which negative applicability determinations can be documented in the FOP application. Sources listed on this form are requested to be included in the Permit Shield for FOP O2269.

**Form OP-REQ2**  
**Negative Applicable/Superseded Requirement Determinations**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 01/29/2025 | O2269      | RN102574803          |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                                                                                |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A       | 1            | TK9012                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(b)                                            | Storing liquid with a maximum true vapor pressure less than 0.5 psia.                                                                                                                               |
| A       | 2            | TK9016                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(b)                                            | Storing liquid with a maximum true vapor pressure less than 0.5 psia.                                                                                                                               |
| A       | 3            | TK9018                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(b)                                            | Storing liquid with a maximum true vapor pressure less than 0.5 psia.                                                                                                                               |
| A       | 4            | TK9020                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(b)                                            | Storing liquid with a maximum true vapor pressure less than 0.5 psia.                                                                                                                               |
| A       | 5            | TK9026                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(b)                                            | Storing liquid with a maximum true vapor pressure less than 0.5 psia.                                                                                                                               |
| A       | 6            | TKDIESL1                  | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §60.110b(a)                                            | Capacity less than 75 cubic meters.                                                                                                                                                                 |
| A       | 6            | TKDIESL1                  | OP-REQ2                            | 30 TAC Chapter 115, Storage of VOCs    | §115.111(a)(8)                                         | Capacity less than 1,000 gal.                                                                                                                                                                       |
| A       | 7            | TK3196                    | OP-REQ2                            | 40 CFR Part 60, Subpart Kb             | §63.2535(c)                                            | Storage tanks subject to 40 CFR Part 60 Subpart Kb and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                                                                                 |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A       | 8            | TO3645VENT                | OP-REQ2                            | 40 CFR Part 60, Subpart DDD            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart DDD and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |
| A       | 8            | TO3645VENT                | OP-REQ2                            | 40 CFR Part 60, Subpart NNN            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart NNN and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |
| A       | 8            | TO3645VENT                | OP-REQ2                            | 40 CFR Part 60, Subpart RRR            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart RRR and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |
| A       | 9            | FS30-VENT                 | OP-REQ2                            | 40 CFR Part 60, Subpart DDD            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart DDD and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |
| A       | 9            | FS30-VENT                 | OP-REQ2                            | 40 CFR Part 60, Subpart NNN            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart NNN and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |

| Unit AI | Revision No. | Unit/Group/Process ID No. | Unit/Group/Process Applicable Form | Potentially Applicable Regulatory Name | Negative Applicability/Superseded Requirement Citation | Negative Applicability/Superseded Requirement Reason                                                                                                                                                 |
|---------|--------------|---------------------------|------------------------------------|----------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A       | 9            | FS30-VENT                 | OP-REQ2                            | 40 CFR Part 60, Subpart RRR            | §63.2535(h)                                            | Process vents subject to 40 CFR Part 60 Subpart RRR and 40 CFR part 63 Subpart FFFF are required to only meet 40 CFR Part 63 Subpart FFFF after the compliance date for 40 CFR Part 63 Subpart FFFF. |
| A       | 10           | CT90                      | OP-REQ2                            | 40 CFR Part 63, Subpart Q              | §63.400                                                | No Chromium-based water treatment chemicals used on or after 09/08/1984.                                                                                                                             |
| A       | 11           | TK0560                    | OP-REQ2                            | 30 TAC Chapter 115, Storage of VOCs    | §115.110(b)(12)                                        | Source is a process tank and does not meet the definition of a storage tank.                                                                                                                         |
| A       | 12           | BAPPEGEN1                 | OP-REQ2                            | 40 CFR Part 63, Subpart ZZZZ           | §63.6590(b)(3)                                         | Existing emergency engine with a site rating greater than 500 HP located in a major source of HAP, constructed before 12/19/2002.                                                                    |

#### **4.3     Applicable Requirements Summary (*Form OP-REQ3*)**

**Applicable Requirements Summary  
Form OP-REQ3 (Page 1)  
Federal Operating Permit Program**

**Table 1a: Additions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process<br/>ID No.</b> | <b>Unit/Group/Process<br/>Applicable Form</b> | <b>SOP/GOP<br/>Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory<br/>Requirement Name</b> | <b>Applicable Regulatory<br/>Requirement Standard(s)</b>                                                                                                                           |
|---------------------|--------------------------------------|-----------------------------------------------|-----------------------------|------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13                  | CT17                                 | OP-UA1                                        | 63FFFF-<br>CT               | HAP              | MACT FFFF                                         | § 63.2450(a)<br>The permit holder shall<br>comply with the applicable<br>limitation, standard and/or<br>equipment specification<br>requirements of 40 CFR Part<br>63, Subpart FFFF |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14                  | CT18                             | OP-UA1                                    | 63FFFF-CT               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |
| 15                  | CT70                             | OP-UA1                                    | 63FFFF-CT               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |



|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16                  | FS09                             | OP-UA1                                    | 63FFFF-FS               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |
| 17                  | FS23                             | OP-UA1                                    | 63FFFF-FS               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |
| 18                  | FS24                             | OP-UA1                                    | 63FFFF-FS               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |
| 19                  | FS30                             | OP-UA1                                    | 63FFFF-FS               | HAP              | MACT FFFF                                     | § 63.2450(a)<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                              |
|---------------------|----------------------------------|-------------------------------------------|-------------------------|------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>21</b>           | <b>CT90</b>                      | <b>OP-UA1</b>                             | <b>63FFFF-CT</b>        | <b>HAP</b>       | <b>MACT FFFF</b>                              | <b>§ 63.2450(a)</b><br><b>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF</b> |
| <b>22</b>           | <b>GRPBAPPPRD</b>                | <b>OP-UA1</b>                             | <b>63FFFF-PRD</b>       | <b>HAP</b>       | <b>MACT FFFF</b>                              | <b>§ 63.2450(a)</b><br><b>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF</b> |

**Applicable Requirements Summary  
Form OP-REQ3 (Page 2)  
Federal Operating Permit Program**

**Table 1b: Additions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                             | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b> |
|---------------------|----------------------------------|--------------------------|------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| 13                  | CT17                             | 63FFFF-CT                | HAP              | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)                      | § 63.2520(e)(16)              |
| 14                  | CT18                             | 63FFFF-CT                | HAP              | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)                      | § 63.2520(e)(16)              |
| 15                  | CT70                             | 63FFFF-CT                | HAP              | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4) | § 63.2525(r)                      | § 63.2520(e)(16)              |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                          | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b>       |
|---------------------|----------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| 16                  | FS09                             | 63FFFF-FS                | HAP              | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)                      | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                          | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b>       |
|---------------------|----------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| 17                  | FS23                             | 63FFFF-FS                | HAP              | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)                      | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                          | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b>       |
|---------------------|----------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| 18                  | FS24                             | 63FFFF-FS                | HAP              | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)                      | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                          | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b>       |
|---------------------|----------------------------------|--------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| 19                  | FS30                             | 63FFFF-FS                | HAP              | § 63.670(b)<br>§ 63.670(c)<br>§ 63.670(d)<br>§ 63.670(e)<br>§ 63.670(g)<br>§ 63.670(h)<br>§ 63.670(i)<br>§ 63.670(j)<br>§ 63.670(k)<br>§ 63.670(l)(1)<br>§ 63.670(l)(2)<br>§ 63.670(l)(3)<br>§ 63.670(l)(4)<br>§ 63.670(l)(5)<br>§ 63.670(m)<br>§ 63.670(n)<br>§ 63.670(o)(1)<br>§ 63.670(o)(2)<br>§ 63.670(o)(3)<br>§ 63.670(o)(5)<br>§ 63.670(o)(6)<br>§ 63.670(o)(7)<br>§ 63.671(a)<br>§ 63.671(b)<br>§ 63.671(c)<br>§ 63.671(d) | § 63.2525(m)                      | § 63.2520(e)(11)<br>§ 63.2520(d)(3) |

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b>                                                                                                                                       | <b>Recordkeeping Requirements</b> | <b>Reporting Requirements</b>       |
|---------------------|----------------------------------|--------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|
| <b>21</b>           | <b>CT90</b>                      | <b>63FFFF-CT</b>         | <b>HAP</b>       | § 63.2490(d)(1)(i)<br>§ 63.2490(d)(1)(iii)<br>§ 63.2490(d)(1)iv)<br>§ 63.2490(d)(2)<br>§ 63.2490(d)(4)                                                                           | § 63.2525(r)                      | § 63.2520(e)(16)                    |
| <b>22</b>           | <b>GRPBAPPPRD</b>                | <b>63FFFF-PRD</b>        | <b>HAP</b>       | § 63.2450(t)<br>§ 63.2480(e)(1)<br>§ 63.2480(e)(2)<br>§ 63.2480(e)(3)(i)<br>§ 63.2480(e)(3)(ii)<br>§ 63.2480(e)(3)(iii)<br>§ 63.2480(e)(6)<br>§ 63.2480(e)(7)<br>§ 63.2480(e)(8) | § 63.2525(q)                      | § 63.2520(e)(15)<br>§ 63.2525(d)(4) |



**Applicable Requirements Summary  
Form OP-REQ3 (Page 3)  
Federal Operating Permit Program**

**Table 2a: Deletions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date:</b> 01/29/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269 |
| <b>Company Name:</b> Exxon Mobil Corporation | <b>Area Name:</b> Baytown Chemical Plant |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Applicable Regulatory Requirement Name</b> | <b>Applicable Regulatory Requirement Standard(s)</b>                                                                                                                                                |
|---------------------|----------------------------------|-------------------------------------------|--------------------------|------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13                  | CT17                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | MACT FFFF                                     | § 63.2490(a) – Table 10<br>For each heat exchange system, as defined in § 63.101, comply with the requirements of § 63.104 and the requirements reference therein except as specified in § 63.2490. |
| 14                  | CT18                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | MACT FFFF                                     | § 63.2490(a) – Table 10<br>For each heat exchange system, as defined in § 63.101, comply with the requirements of § 63.104 and the requirements reference therein except as specified in § 63.2490. |
| 15                  | CT70                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | MACT FFFF                                     | § 63.2490(a) – Table 10<br>For each heat exchange system, as defined in § 63.101, comply with the requirements of § 63.104 and the requirements reference therein except as specified in § 63.2490. |

**Applicable Requirements Summary  
Form OP-REQ3 (Page 4)  
Federal Operating Permit Program**

**Table 2b: Deletions**

|                                              |                                          |                          |
|----------------------------------------------|------------------------------------------|--------------------------|
| <b>Date: 01/29/2025</b>                      | <b>Regulated Entity No.: RN102574803</b> | <b>Permit No.: O2269</b> |
| <b>Company Name: Exxon Mobil Corporation</b> | <b>Area Name: Baytown Chemical Plant</b> |                          |

| <b>Revision No.</b> | <b>Unit/Group/Process ID No.</b> | <b>Unit/Group/Process Applicable Form</b> | <b>SOP/GOP Index No.</b> | <b>Pollutant</b> | <b>Monitoring and Testing Requirements</b> | <b>Recordkeeping Requirements</b>      | <b>Reporting Requirements</b> |
|---------------------|----------------------------------|-------------------------------------------|--------------------------|------------------|--------------------------------------------|----------------------------------------|-------------------------------|
| 13                  | CT17                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | [G]§ 63.104(b)                             | [G]§ 63.104(e)(2)<br>[G]§ 63.104(f)(1) | [G]§ 63.104(f)(2)             |
| 14                  | CT18                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | [G]§ 63.104(b)                             | [G]§ 63.104(e)(2)<br>[G]§ 63.104(f)(1) | [G]§ 63.104(f)(2)             |
| 15                  | CT70                             | OP-UA1<br>OP-UA13                         | 63FFFF                   | HAP              | [G]§ 63.104(b)                             | [G]§ 63.104(e)(2)<br>[G]§ 63.104(f)(1) | [G]§ 63.104(f)(2)             |
|                     |                                  |                                           |                          |                  |                                            |                                        |                               |

#### **4.4 Permit by Rule Supplemental Table (*Form OP-PBRSUP*)**

This section contains the form OP-PBRSUP.

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| ANALYZE     | 149708           | 106.261/262 | 01/03/2018        |
| BAPPANAL    | 164917           | 106.261/262 | 05/25/2021        |
| BTCPFUG     | 44074            | 106.261     | 04/24/2000        |
| BTCPFUG     | 54715            | 106.261/262 | 04/15/2003        |
| BTCPFUG     | 122563           | 106.261/262 | 09/04/2014        |
| BTCPFUG     | 122598           | 106.261/262 | 09/04/2014        |
| BTCPFUG     | 109284           | 106.261     | 05/10/2013        |
| BTCPFUG     | 109740           | 106.261/262 | 06/28/2013        |
| BTCPFUG     | 110913           | 106.261/262 | 08/26/2013        |
| BTCPFUG     | 109761           | 106.261/262 | 06/27/2013        |
| BTCPFUG     | 122827           | 106.261/262 | 09/18/2014        |
| BTCPFUG     | 123832           | 106.261/262 | 10/28/2014        |
| BTCPFUG     | 117728           | 106.261/262 | 03/04/2014        |
| BTCPFUG     | 118027           | 106.261/262 | 05/16/2014        |
| BTCPFUG     | 118033           | 106.261/262 | 05/16/2014        |
| BTCPFUG     | 124055           | 106.261/262 | 10/31/2014        |
| BTCPFUG     | 129931           | 106.261/262 | 02/27/2015        |
| BTCPFUG     | 130000           | 106.261/262 | 03/03/2015        |
| BTCPFUG     | 131373           | 106.261     | 06/22/2015        |
| BTCPFUG     | 132686           | 106.261/262 | 07/02/2015        |
| BTCPFUG     | 133867           | 106.261     | 09/08/2015        |
| BTCPFUG     | 134883           | 106.261/262 | 10/16/2015        |
| BTCPFUG     | 136257           | 106.261/262 | 11/16/2015        |
| BTCPFUG     | 108815           | 106.261/262 | 06/06/2013        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| BTCPFUG     | 136006           | 106.261/262 | 11/06/2015        |
| BTCPFUG     | 136897           | 106.261/262 | 12/30/2015        |
| BTCPFUG     | 138601           | 106.261/262 | 02/22/2016        |
| BTCPFUG     | 138709           | 106.261/262 | 03/25/2016        |
| BTCPFUG     | 138869           | 106.261/262 | 03/15/2016        |
| BTCPFUG     | 139477           | 106.261/262 | 05/20/2016        |
| BTCPFUG     | 141229           | 106.261/262 | 07/29/2016        |
| BTCPFUG     | 144054           | 106.261/262 | 12/07/2016        |
| BTCPFUG     | 145938           | 106.261     | 05/04/2017        |
| BTCPFUG     | 147270           | 106.261/262 | 07/18/2017        |
| BTCPFUG     | 148600           | 106.261/262 | 10/13/2017        |
| BTCPFUG     | 151017           | 106.261/262 | 04/25/2018        |
| BTCPFUG     | 157551           | 106.261/262 | 08/06/2019        |
| BTCPFUG     | 156187           | 106.261     | 05/03/2019        |
| BTCPFUG     | 158011           | 106.261/262 | 09/05/2019        |
| BTCPFUG     | 159030           | 106.261/262 | 11/12/2019        |
| BTCPFUG     | 158895           | 106.261/262 | 11/14/2019        |
| BTCPFUG     | 160645           | 106.261     | 04/24/2020        |
| BTCPFUG     | 159463           | 106.261/262 | 01/14/2020        |
| BTCPFUG     | 160328           | 106.261     | 03/20/2020        |
| BTCPFUG     | 160542           | 106.261/262 | 04/03/2020        |
| BTCPFUG     | 163045           | 106.261/262 | 11/06/2020        |
| BTCPFUG     | 163693           | 106.261/262 | 01/14/2021        |
| BTCPFUG     | 164637           | 106.261     | 05/14/2021        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| BTCPFUG     | 164917           | 106.261/262 | 05/25/2021        |
| BTCPFUG     | 165468           | 106.261/262 | 07/09/2021        |
| BTCPFUG     | 166371           | 106.261/262 | 09/22/2021        |
| BTCPFUG     | 166583           | 106.261/262 | 10/05/2021        |
| BTCPFUG     | 168038           | 106.261/262 | 03/08/2022        |
| BTCPFUG     | 168285           | 106.261     | 04/01/2022        |
| BTCPFUG     | 104818           | 106.262     | 09/28/2012        |
| BTCPFUG     | 107195           | 106.262     | 03/05/2013        |
| BTCPFUG     | 112083           | 106.262     | 08/16/2013        |
| BTCPFUG     | 112780           | 106.262     | 10/30/2013        |
| BTCPFUG     | 123625           | 106.262     | 10/23/2014        |
| BTCPFUG     | 120433           | 106.262     | 07/11/2014        |
| BTCPFUG     | 126098           | 106.262     | 12/18/2014        |
| BTCPFUG     | 135448           | 106.262     | 09/15/2015        |
| BTCPFUG     | 158351           | 106.262     | 09/18/2019        |
| BTCPFUG     | 159339           | 106.262     | 12/19/2019        |
| BTCPFUG     | 71653            | 106.262     | 05/04/2004        |
| BTCPFUG     | 76270            | 106.262     | 07/18/2005        |
| BTCPFUG     | 76317            | 106.262     | 08/16/2005        |
| BTCPFUG     | 80253            | 106.262     | 11/15/2006        |
| BTCPFUG     | 80411            | 106.262     | 12/12/2006        |
| BTCPFUG     | 80715            | 106.262     | 01/31/2007        |
| BTCPFUG     | 80920            | 106.262     | 02/20/2007        |
| BTCPFUG     | 81081            | 106.262     | 03/12/2007        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| BTCPFUG     | 82149            | 106.262     | 06/22/2007        |
| BTCPFUG     | 82657            | 106.262     | 08/28/2007        |
| BTCPFUG     | 83400            | 106.262     | 12/06/2007        |
| BTCPFUG     | 83906            | 106.262     | 01/31/2008        |
| BTCPFUG     | 50641            | 106.262     | 04/18/2002        |
| BTCPFUG     | 54171            | 106.262     | 03/17/2003        |
| BTCPFUG     | 123625           | 106.472     | 10/23/2014        |
| BTCPFUG     | 160542           | 106.473     | 04/03/2020        |
| BTCPFUG     | 151221           | 106.261     | 05/09/2018        |
| BTCPFUG     | 152890           | 106.261/262 | 08/29/2018        |
| BTCPFUG     | 154259           | 106.262     | 01/11/2019        |
| BTCPFUG     | 167076           | 106.261/262 | 11/11/2021        |
| BTCPFUG     | 170489           | 106.261/262 | 10/17/2022        |
| BTCPFUG     | 172082           | 106.261     | 03/24/2023        |
| FGRHB       | 111297           | 106.261/262 | 08/15/2013        |
| FGRHB       | 119875           | 106.261/262 | 06/30/2014        |
| FGRHB       | 131804           | 106.261     | 06/26/2015        |
| FGRHB       | 132685           | 106.261     | 07/02/2015        |
| FGRHB       | 143521           | 106.261     | 11/02/2016        |
| FGRHB       | 157551           | 106.261     | 08/06/2019        |
| FGRHB       | 148594           | 106.261     | 10/06/2017        |
| FGRHB       | 148861           | 106.261     | 10/23/2017        |
| FGRHB       | 108566           | 106.261/262 | 05/31/2013        |
| FGRHB       | 159540           | 106.261     | 01/14/2020        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| FGRHB       | 166583           | 106.261/262 | 10/05/2021        |
| FGRHB       | 166704           | 106.261/262 | 10/29/2021        |
| FGRHB       | 108595           | 106.262     | 04/29/2013        |
| FGRHB       | 123247           | 106.262     | 09/22/2014        |
| FGRHB       | 129961           | 106.262     | 03/10/2015        |
| FGRHB       | 108574           | 106.262     | 05/31/2013        |
| FGRHB       | 124140           | 106.262     | 11/21/2014        |
| FGRHB       | 136019           | 106.262     | 10/12/2015        |
| FGRHB       | 140847           | 106.262     | 07/08/2016        |
| FGRHB       | 144055           | 106.261/262 | 12/28/2016        |
| FGRHB       | 145967           | 106.262     | 04/13/2017        |
| FGRHB       | 159239           | 106.262     | 12/05/2019        |
| FGRHB       | 168841           | 106.262     | 05/02/2022        |
| FGRHB       | 169889           | 106.262     | 08/12/2022        |
| FGRHB       | 171043           | 106.262     | 12/13/2022        |
| FS09        | 144054           | 106.261/262 | 12/07/2016        |
| FS09        | 155971           | 106.261/262 | 04/12/2019        |
| FS09        | 162035           | 106.261/262 | 08/14/2020        |
| FS09        | 164637           | 106.261     | 05/14/2021        |
| FS09        | 165167           | 106.261/262 | 06/18/2021        |
| FS09        | 167076           | 106.261/262 | 11/11/2021        |
| FS12        | 44053            | 106.261     | 05/17/2000        |
| FS12        | 148321           | 106.261/262 | 09/15/2017        |
| FS12        | 151047           | 106.261/262 | 04/27/2018        |



**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| FS12        | 151078           | 106.261/262 | 04/25/2018        |
| FS12        | 156187           | 106.261     | 05/03/2019        |
| FS12        | 158537           | 106.261/262 | 10/23/2019        |
| FS12        | 159540           | 106.261/262 | 01/14/2020        |
| FS12        | 160645           | 106.261     | 04/24/2020        |
| FS12        | 153201           | 106.261     | 10/03/2018        |
| FS12        | 157140           | 106.261/262 | 06/24/2019        |
| FS12        | 164637           | 106.261     | 05/14/2021        |
| FS12        | 166271           | 106.261/262 | 09/14/2021        |
| FS23        | 144054           | 106.261/262 | 12/07/2016        |
| FS23        | 155971           | 106.261/262 | 04/12/2019        |
| FS23        | 162035           | 106.261/262 | 08/14/2020        |
| FS23        | 164637           | 106/261     | 05/14/2021        |
| FS23        | 165167           | 106.261/262 | 06/18/2021        |
| FS23        | 167076           | 106.261/262 | 11/11/2021        |
| FS24        | 155971           | 106.261/262 | 04/12/2019        |
| FS24        | 76317            | 106.261/262 | 08/16/2005        |
| FS24        | 80411            | 106.261/262 | 12/12/2006        |
| FS24        | 144054           | 106.261/262 | 12/07/2016        |
| FS24        | 162035           | 106.261/262 | 08/14/2020        |
| FS24        | 164637           | 106/261     | 05/14/2021        |
| FS24        | 165167           | 106.261/262 | 06/18/2021        |
| FS24        | 167076           | 106.261/262 | 11/11/2021        |
| FS28        | 163693           | 106.261/262 | 01/14/2021        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | Registration No. | PBR No.     | Registration Date |
|-------------|------------------|-------------|-------------------|
| FS28        | 165468           | 106.261     | 07/09/2021        |
| FS28        | 81081            | 106.262     | 03/12/2007        |
| CT18        | 167076           | 106.261/262 | 11/11/2021        |
| NRUF9A/B    | 78572            | 106.261/262 | 04/27/2006        |
| NRUF9A/B    | 84579            | 106.261/262 | 05/09/2008        |
| PPBL3-303   | 147480           | 106.262     | 07/31/2017        |
| PPBL3-310   | 147480           | 106.262     | 07/31/2017        |
| PPBL3-312   | 147480           | 106.262     | 07/31/2017        |
| TK1123      | 131037           | 106.261/262 | 05/12/2015        |
| TK1123      | 131037           | 106.478     | 05/12/2015        |
| TK3052      | 157939           | 106.262     | 09/17/2019        |
| TK3107      | 166272           | 106.261/262 | 09/22/2021        |
| TK3110      | 166272           | 106.261/262 | 09/22/2021        |
| TK3196      | 164637           | 106.261     | 05/14/2021        |
| TK2000      | 160253           | 106.478     | 05/04/2022        |
| TK4013      | 160253           | 106.478     | 05/04/2022        |
| TK4015      | 160253           | 106.478     | 05/04/2022        |
| TK4016      | 160253           | 106.478     | 05/04/2022        |
| TK4017      | 160253           | 106.478     | 05/04/2022        |
| BTCPFUG     | 172613           | 106.261/262 | 05/11/2023        |
| BTCPFUG     | 174327           | 106.261/262 | 10/31/2023        |
| BTCPFUG     | 174957           | 106.261/262 | 01/22/2024        |
| BTCPFUG     | 175445           | 106.261/262 | 02/27/2024        |
| BTCPFUG     | 175762           | 106.261     | 04/12/2024        |

**Permit By Rule Supplemental Table (Page 1)**  
**Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No.    | Registration No. | PBR No.            | Registration Date |
|----------------|------------------|--------------------|-------------------|
| FGRHB          | 175762           | 106.261            | 04/12/2024        |
| TK3192         | 175762           | 106.261            | 04/12/2024        |
| BTCPFUG        | 176317           | 106.262            | 05/31/2024        |
| BTCPFUG        | 177840           | 106.261/262        | 11/05/2024        |
| FS30           | 177840           | 106.261/262        | 11/05/2024        |
| <b>BTCPFUG</b> | <b>177978</b>    | <b>106.262</b>     | <b>11/05/2024</b> |
| <b>BTCPFUG</b> | <b>178653</b>    | <b>106.261/262</b> | <b>1/9/2025</b>   |

## Permit By Rule Supplemental Table (Page 2)

**Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area**

**Texas Commission on Environmental Quality**

| Date       | Permit Number | Permit Number Regulated Entity Number |
|------------|---------------|---------------------------------------|
| 01/29/2025 | O2269         | RN102574803                           |

[illegible]

## Permit By Rule Supplemental Table (Page 3)

**Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area**

**Texas Commission on Environmental Quality**

| Date       | Permit Number | Permit Number Regulated Entity Number |
|------------|---------------|---------------------------------------|
| 01/29/2025 | O2269         | RN102574803                           |

[illegible]

**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANALYZE     | 106.261/262 | 149708                               | Specific information related to the activity including, where applicable, activity rate, or other process data used to calculate emissions is recorded.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| BAPPANAL    | 106.261/262 | 164917                               | Specific information related to the activity including, where applicable, activity rate, or other process data used to calculate emissions is recorded.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| BTCPFUG     | 106.261     | 44074                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 54715                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 122563                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|-------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 122598                               | Emissions from fugitive component leaks are minimized through the 28MID Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 56.         |
| BTCPFUG     | 106.261     | 109284                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |



**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 109740                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 110913                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 109761                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 122827                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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|------------|---------------|-------------------------|
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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 123832                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 117728                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 118027                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 118033                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 124055                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 129931                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 130000                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261     | 131373                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 132686                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261     | 133867                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 134883                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 136257                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 108815                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 136006                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
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|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 136897                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 138601                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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|------------|---------------|-------------------------|
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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 138709                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 68, 69, and 70. |
| BTCPFUG     | 106.261/262 | 138869                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                    |

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| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 139477                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 141229                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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|------------|---------------|-------------------------|
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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|-------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 144054                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| BTCPFUG     | 106.261     | 145938                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 147270                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 148600                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| BTCPFUG     | 106.261/262 | 151017                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.            |
| BTCPFUG     | 106.261/262 | 157551                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 61, 62. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| BTCPFUG     | 106.261     | 156187                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 68, 69, and 70. |
| BTCPFUG     | 106.261/262 | 158011                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                    |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.261/262 | 159030                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 158895                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.261     | 160645                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 159463                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.261     | 160328                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.261/262 | 160542                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BTCPFUG     | 106.261/262 | 163045                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| BTCPFUG     | 106.261/262 | 163693                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BTCPFUG     | 106.261     | 164637                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |
| BTCPFUG     | 106.261/262 | 164917                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BTCPFUG     | 106.261/262 | 165468                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |
| BTCPFUG     | 106.261/262 | 166371                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BTCPFUG     | 106.261/262 | 166583                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| BTCPFUG     | 106.261/262 | 168038                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| BTCPFUG     | 106.261 | 168285                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| BTCPFUG     | 106.262 | 104818                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |



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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| BTCPFUG     | 106.262 | 107195                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.         |
| BTCPFUG     | 106.262 | 112083                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair programs as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 46. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 112780                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 123625                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| BTCPFUG     | 106.262 | 120433                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66.     |
| BTCPFUG     | 106.262 | 126098                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 68, 69, and 70. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|---------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.262 | 135448                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 158351                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 159339                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 71653                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| BTCPFUG     | 106.262 | 76270                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 76317                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| BTCPFUG     | 106.262 | 80253                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 80411                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 80715                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 80920                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |



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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 81081                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 82149                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 82657                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 83400                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 83906                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.262 | 50641                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| BTCPFUG     | 106.262 | 54171                                | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| BTCPFUG     | 106.472 | 123625                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| BTCPFUG     | 106.473 | 160542                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                     |
| BTCPFUG     | 106.261 | 151221                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3, 46, 64, 65, and 66. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| BTCPFUG     | 106.261/262 | 152890                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                     |
| BTCPFUG     | 106.261/262 | 154259                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3, 46, 68, 69, and 70. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| BTCPFUG     | 106.261/262 | 167076                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3, 46, 68, 69, and 70. |
| BTCPFUG     | 106.261/262 | 170489                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3, 46, 68, 69, and 70. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| BTCPFUG     | 106.261     | 172082                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3, 46, 68, 69, and 70. |
| FGRHB       | 106.261/262 | 111297                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                     |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.261/262 | 119875                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.261     | 131804                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.261 | 132685                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.261 | 143521                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| FGRHB       | 106.261 | 157551                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 61, 62. |
| FGRHB       | 106.261 | 148594                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.            |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.261     | 148861                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.261/262 | 108566                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FGRHB       | 106.261     | 159540                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |
| FGRHB       | 106.261/262 | 166583                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FGRHB       | 106.261/262 | 166704                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| FGRHB       | 106.262     | 108595                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FGRHB       | 106.262 | 123247                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and 64, 65, 66. |
| FGRHB       | 106.262 | 129961                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3.                |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.262 | 108574                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.262 | 124140                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |



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| FGRHB       | 106.262 | 136019                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.262 | 140847                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.261/262 | 144055                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.262     | 145967                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.262 | 159239                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.262 | 168841                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| FGRHB       | 106.262 | 169889                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| FGRHB       | 106.262 | 171043                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS09        | 106.261/262 | 144054                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS09        | 106.261/262 | 155971                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS09        | 106.261/262 | 162035                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS09        | 106.261     | 164637                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS09        | 106.261/262 | 165167                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS09        | 106.261/262 | 167076                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261 | 44053                                | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 148321                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 151047                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 151078                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261 | 156187                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 158537                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 159540                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261 | 160645                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261 | 153201                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 157140                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261 | 164637                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| FS12        | 106.261/262 | 166271                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 20211 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 20211 Special Condition Nos. 10 and 87 through 116. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS23        | 106.261/262 | 144054                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS23        | 106.261/262 | 155971                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS23        | 106.261/262 | 162035                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS23        | 106/261     | 164637                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS23        | 106.261/262 | 165167                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS23        | 106.261/262 | 167076                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS24        | 106.261/262 | 155971                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS24        | 106.261/262 | 76317                                | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| FS24        | 106.261/262 | 80411                                | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS24        | 106.261/262 | 144054                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |



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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS24        | 106.261/262 | 162035                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS24        | 106/261     | 164637                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS24        | 106.261/262 | 165167                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |
| FS24        | 106.261/262 | 167076                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 4600 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare loop system. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition Nos. 6 and 14 through 45. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS28        | 106.261/262 | 163693                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 36476 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored and the frequency of monitoring. "The holder of this permit shall have a continuous flow monitor that provide a record of the vent stream flow to the flare. The flow monitor sensor should be installed in the vent stream such that the total vent stream to the flare is measured. The average hourly values of the flow shall be recorded and maintained electronically." For more detail see NSR Permit No. 36476 Special Condition No. 4. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| FS28        | 106.261 | 165468                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 36476 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored and the frequency of monitoring. "The holder of this permit shall have a continuous flow monitor that provide a record of the vent stream flow to the flare. The flow monitor sensor should be installed in the vent stream such that the total vent stream to the flare is measured. The average hourly values of the flow shall be recorded and maintained electronically." For more detail see NSR Permit No. 36476 Special Condition No. 4. |

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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| FS28        | 106.262 | 81081                                | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 36476 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored and the frequency of monitoring. "The holder of this permit shall have a continuous flow monitor that provide a record of the vent stream flow to the flare. The flow monitor sensor should be installed in the vent stream such that the total vent stream to the flare is measured. The average hourly values of the flow shall be recorded and maintained electronically." For more detail see NSR Permit No. 36476 Special Condition No. 4. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CT18        | 106.261/262 | 167076                               | Emissions from cooling towers are minimized by leak detection and repair work practices. The requirements in the permit specify the parameter monitored, the frequency of monitoring and monitoring method. "The volatile organic compound (VOC) associated with cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method." For more detail see NSR Permit No. 4600 (WCC content ID 4846480) Special Condition No 9.                                                                                                                                                                                                                                                                                                                                       |
| NRUF9A/B    | 106.261/262 | 78572                                | NOx and CO emissions from heaters F9A and F9B are monitored using Continuous Emissions Monitoring Systems (CEMS) compliant with the Emissions Monitoring requirements in 30 TAC Chapter 117 Subchapter G Division 2, as detailed in the Title V permit. The requirements in the Title V permit specify the parameter monitored, the frequency of monitoring and averaging times. "Performance Specification 2, for nitrogen oxides (NOX ) in terms of the applicable standard (in parts per million by volume (ppmv), pounds per million British thermal units (lb/MMBtu), or grams per horsepower-hour (g/hp-hr)). An alternative relative accuracy requirement of $\pm 2.0$ ppmv from the reference method mean value is allowed; (ii) Performance Specification 3, for diluent; and (iii) Performance Specification 4, for carbon monoxide (CO), for owners or operators electing to use a CO CEMS" For more detail see 30 TAC 117.8100. |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|-------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NRUF9A/B    | 106.261/262 | 84579                                | NOx and CO emissions from heaters F9A and F9B are monitored using Continuous Emissions Monitoring Systems (CEMS) compliant with the Emissions Monitoring requirements in 30 TAC Chapter 117 Subchapter G Division 2, as detailed in the Title V permit. The requirements in the Title V permit specify the parameter monitored, the frequency of monitoring and averaging times. "Performance Specification 2, for nitrogen oxides (NOX ) in terms of the applicable standard (in parts per million by volume (ppmv), pounds per million British thermal units (lb/MMBtu), or grams per horsepower-hour (g/hp-hr)). An alternative relative accuracy requirement of $\pm 2.0$ ppmv from the reference method mean value is allowed; (ii) Performance Specification 3, for diluent; and (iii) Performance Specification 4, for carbon monoxide (CO), for owners or operators electing to use a CO CEMS" For more detail see 30 TAC 117.8100. |
| PPBL3-303   | 106.262     | 147480                               | Particulate emissions from filter vents are minimized by proper operation of the filters which is required by NSR Permit No. 8586. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "All filter vents shall be inspected for visible emissions once each day." For more detail see NSR Permit No. 8586 (WCC content ID 5684055) Special Condition 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPBL3-310   | 106.262     | 147480                               | Particulate emissions from filter vents are minimized by proper operation of the filters which is required by NSR Permit No. 8586. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "All filter vents shall be inspected for visible emissions once each day." For more detail see NSR Permit No. 8586 (WCC content ID 5684055) Special Condition 9. |
| PPBL3-312   | 106.262     | 147480                               | Particulate emissions from filter vents are minimized by proper operation of the filters which is required by NSR Permit No. 8586. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "All filter vents shall be inspected for visible emissions once each day." For more detail see NSR Permit No. 8586 (WCC content ID 5684055) Special Condition 9. |
| TK1123      | 106.261/262 | 131037                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 20211. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Conditions 6, 16, 17, 18, 86.                                                                       |



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| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| TK1123      | 106.478 | 131037                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 20211. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Conditions 6, 16, 17, 18, 86.                                                                                                                                 |
| TK2000      | 106.478 | 160253                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |
| TK3052      | 106.262 | 157939                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 28441. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see NSR Permit No. 28441 Special Condition 6.                                                                                                                                                                           |

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| TK3107      | 106.261/262 | 166272                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 8586. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see NSR Permit No. 8586 Special Condition 8.                                                                                                                                                                             |
| TK3110      | 106.261/262 | 166272                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 8586. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. For more detail see NSR Permit No. 8586 Special Condition 8.                                                                                                                                                                             |
| TK3196      | 106.261     | 164637                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |

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| TK4013      | 106.478 | 160253                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |
| TK4015      | 106.478 | 160253                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |
| TK4016      | 106.478 | 160253                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |

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| TK4017      | 106.478 | 160253                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16. |
| BAPPEGEN1   | 106.511 | 09/04/2000                           | The operating hours of the engine are monitored and recorded on a monthly basis.                                                                                                                                                                                                                                                                                                                                                                                               |
| CABGEN      | 106.511 | 09/04/2000                           | The operating hours of the engine are monitored and recorded on a monthly basis.                                                                                                                                                                                                                                                                                                                                                                                               |
| D4022-1     | 106.263 | 11/01/2001                           | Where applicable, true vapor pressure, volatile organic compounds (VOC) content type, or a combination is recorded for loading or unloading events.                                                                                                                                                                                                                                                                                                                            |
| PPLDCOM     | 106.472 | 09/04/2000                           | Where applicable, true vapor pressure, volatile organic compounds (VOC) content type, or a combination is recorded for loading or unloading events.                                                                                                                                                                                                                                                                                                                            |
| UCOD0002    | 106.473 | 09/04/2000                           | Where applicable, true vapor pressure, volatile organic compounds (VOC) content type, or a combination is recorded for loading or unloading events.                                                                                                                                                                                                                                                                                                                            |

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|-------------|-------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TK0030      | 106.264     | 09/04/2000                           | Where applicable, true vapor pressure, volatile organic compounds (VOC) content type, or a combination is recorded initially and at every change of service or when a storage container is emptied and refilled.                                                                                                                                                                                                                                                                                                                                                                                         |
| CTWATER     | 106.371     | 09/04/2000                           | A record is maintained of water treating systems for process cooling water or boiler feedwater, and water tanks, reservoirs, or other water containers designed to cool, store, or otherwise handle.                                                                                                                                                                                                                                                                                                                                                                                                     |
| BTCPFUG     | 106.261/262 | 172613                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |

**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|-------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 174327                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit Nos. 20211 and 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and NSR Permit No. 149177 Special Condition No. 17. |
| BTCPFUG     | 106.261/262 | 174957                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17.                                                                                       |

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|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|-------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 175445                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17.                                                                                       |
| BTCPFUG     | 106.261     | 175762                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit Nos. 20211 and 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3 and NSR Permit No. 149177 Special Condition No. 17. |

**Permit By Rule Supplemental Table (Page 4)**  
**Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area**  
**Texas Commission on Environmental Quality**

| Date       | Permit Number | Regulated Entity Number |
|------------|---------------|-------------------------|
| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|---------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FGRHB       | 106.261 | 175762                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No. 20211. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 20211 (WCC content ID 4286681) Special Condition No. 3. |
| TK3192      | 106.261 | 175762                               | Storage tank emissions are minimized by design requirements for the tanks which are detailed in NSR Permit No. 149177. The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank." For more detail see NSR Permit No. 149177 (WCC content ID 4847046) Special Condition 16.                                                                                                                           |



**Permit By Rule Supplemental Table (Page 4)**  
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| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|-------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.262     | 176317                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17. |
| BTCPFUG     | 106.261/262 | 177840                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17. |

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| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FS30        | 106.261/262 | 177840                               | Emissions from vents to flares are minimized by meeting flare operating requirements detailed in NSR Permit 149177 to ensure a high Destruction and Removal Efficiency (DRE). The requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow, composition and BTU content to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream in a location such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow, composition and BTU content shall be recorded each hour." For more detail see NSR Permit No. 149177 Special Condition No 12. |
| BTCPFUG     | 106.262     | 177978                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17.                                                                                                                                                                                                                                                                                                        |

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| 01/29/2025 | O2269         | RN102574803             |

| Unit ID No. | PBR No.     | Version No./Date Or Registration No. | Monitoring Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|-------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BTCPFUG     | 106.261/262 | 178653                               | Emissions from fugitive component leaks are minimized through the 28VHP Leak Detection and Repair program as detailed in the relevant conditions of NSR Permit No 149177. The LDAR requirements in the permit specify the parameter monitored, the frequency of monitoring and averaging times. "Except as may be provided for in the special conditions of this permit, accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. ..." For more detail see NSR Permit No. 149177 Special Condition No. 17. |

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## SECTION 5

### COMPLIANCE STATUS INFORMATION

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#### **5.1 Application Compliance Plan and Schedule (*Form OP-ACPS*)**

This section contains the Form OP-ACPS which satisfies the requirements of 30 TAC §122.132(e)(4). This form contains a specific statement regarding continued compliance with current requirements, and compliance with requirements that may become effective. It also contains an indication of compliance status with respect to all applicable requirements. All emission units addressed in this application are in compliance with all their respective applicable requirements.

**Texas Commission on Environmental Quality**  
**Form OP-ACPS**  
**Application Compliance Plan and Schedule**

|                                              |                                          |                                          |
|----------------------------------------------|------------------------------------------|------------------------------------------|
| <b>Date:</b> 01/29/2025                      | <b>Regulated Entity No.:</b> RN102574803 | <b>Permit No.:</b> O2269                 |
| <b>Company Name:</b> Exxon Mobil Corporation |                                          | <b>Area Name:</b> Baytown Chemical Plant |

- Part 1 of this form must be submitted with all initial FOP applications and renewal applications.
- The Responsible Official must use Form OP-CRO1 (Certification by Responsible Official) to certify information contained in this form in accordance with 30 TAC § 122.132(d)(8).

**Part 1**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>A. Compliance Plan — Future Activity Committal Statement</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                     |
| <p>The <i>Responsible Official</i> commits, utilizing reasonable effort, to the following:<br/>         As the responsible official it is my intent that all emission units shall continue to be in compliance with all applicable requirements they are currently in compliance with, and all emission units shall be in compliance by the compliance dates with any applicable requirements that become effective during the permit term.</p>                                                                                                                                                                                                                              |                                                                     |
| <b>B. Compliance Certification - Statement for Units in Compliance*</b><br>(Indicate response by entering an "X" in the appropriate column)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |
| <b>1.</b> With the exception of those emission units listed in the Compliance Schedule section of this form (Part 2, below), and based, at minimum, on the compliance method specified in the associated applicable requirements, are all emission units addressed in this application in compliance with all their respective applicable requirements as identified in this application?                                                                                                                                                                                                                                                                                    | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <b>2.</b> Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <b>3.</b> If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. <i>(For reference only)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                     |
| <p><small>* For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status. For General Operating Permits (GOPs), the application documentation, particularly Form OP-REQ1 should be consulted as well as the requirements contained in the appropriate General Permits portion of 30 TAC Chapter 122.</small></p> <p><small>Compliance should be assessed based, at a minimum, on the required monitoring, testing, record keeping, and/or reporting requirements, as appropriate, associated with the applicable requirement in question.</small></p> |                                                                     |

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## SECTION 6

### SUPPLEMENTAL INFORMATION

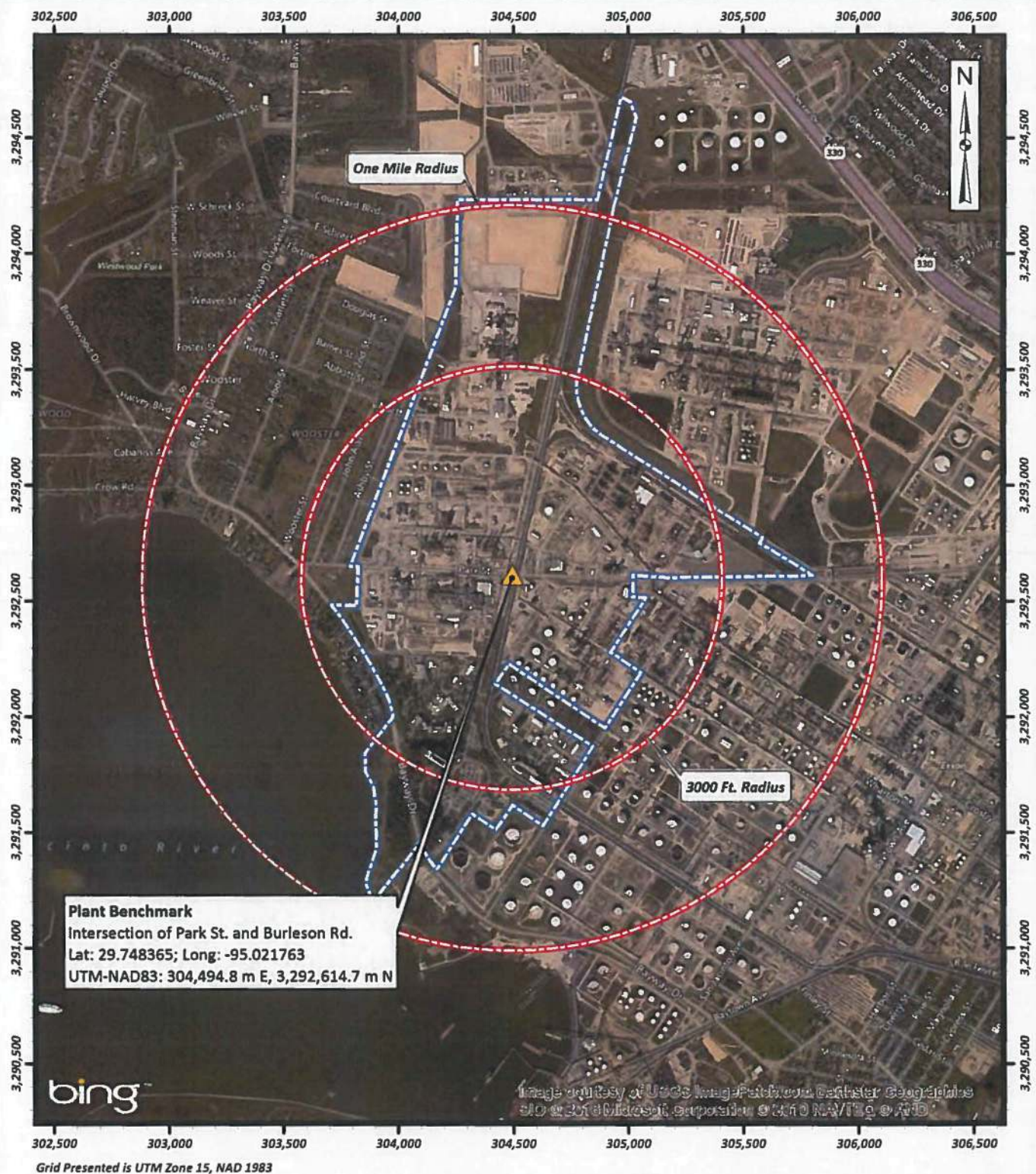
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#### **6.1 Area Map**

The ExxonMobil Baytown Chemical Plant is located at 5000 Bayway Drive, Baytown, Harris County, Texas. A USGS area map indicating the site location is provided in Figure 6-1.

## **Figure 6-1 Area Map**



ExxonMobil Baytown Chemical Plant  
Baytown, Texas

**Area Map**  
Permit 20211 Renewal  
December, 2016

**ARCADIS** Design & Consultancy  
for natural and built assets

**FIGURE  
A3-1**

Digital Data Courtesy of ESRI, Bing Map  
Ground Conditions depicted March 2011



ExxonMobil Baytown  
Chemical Plant Boundary



## 6.2 Process Description

BTCP takes feeds from both BTRF and BOP, in addition to raw material, to recover and produce various products. The BTCP is broken up into three (3) distinct chemical business units identified as Butyl Polymers, Polypropylene, and Olefins & Aromatics (O&A). Within O&A, various products are recovered through an integrated system of process units. These include the Naphtha Re-Run Unit (NRU), Benzene Hydrofiner Unit (BHU), Aromatics Extraction Unit (AXU), Paraxylene Feed Unit (PFU), Toluene Disproportionation Unit (TDU), Paraxylene Adsorption Unit (PAU), Propylene Concentration Unit (PCU), Diene Hydrogenation Unit (DHU), Butene Processing Unit (BPU), Isobutylene Unit (IBU), Isoamylene Unit (IAU), Syngas Unit (SGU), Linear Paraffins Unit (LPU), Metallocene Polyalphaolefin Unit (MPU), Performance Polymers Unit (PPU), and Monomer Preparation Facility (MPF).