

Brooke T. Paup, *Chairwoman*  
Catarina R. Gonzales, *Commissioner*  
Tonya R. Miller, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 20, 2025

THE HONORABLE CAROL ALVARADO  
TEXAS SENATE  
PO BOX 12068  
AUSTIN TX 78711-2068

Re: Accepted Federal Operating Permit Renewal Application  
Project Number: 38970  
Permit Number: O4253  
South Bow Terminals LLC  
Houston Tank Terminal  
Houston, Harris County  
Regulated Entity Number: RN106655947  
Customer Reference Number: CN605011642

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=-95.143055,29.826388&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  
October 20, 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 T. Paup, *Chairwoman*  
Catarina R. Gonzales, *Commissioner*  
Tonya R. Miller, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 20, 2025

THE HONORABLE HAROLD V DUTTON JR  
TEXAS HOUSE OF REPRESENTATIVES  
PO BOX 2910  
AUSTIN TX 78768-2910

Re: Accepted Federal Operating Permit Renewal Application  
Project Number: 38970  
Permit Number: O4253  
South Bow Terminals LLC  
Houston Tank Terminal  
Houston, Harris County  
Regulated Entity Number: RN106655947  
Customer Reference Number: CN605011642

Dear Representative Dutton Jr:

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=-95.143055,29.826388&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

---

**From:** eNotice TCEQ  
**Sent:** Monday, October 20, 2025 9:25 AM  
**To:** carol.alvarado@senate.texas.gov; Jaime.Villarreal@senate.texas.gov;  
megan.maldonado@senate.texas.gov; Harold.dutton@house.texas.gov  
**Subject:** TCEQ Notice - Permit Number O4253  
**Attachments:** TCEQ Notice - O4253\_38970.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. Rhyan Stone with the Air Permits Division at (512) 239-1293.

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.



# Sen. Carol Alvarado (D)

[↩ Back to Texas Senate](#)

Last modified on: 11-12-2024 10:39:56

## TX Senator (Texas Senate)

Entered Office: 12-21-2018  
Term Ends: 01-2029  
District: 6



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### General Information

Profession: Small Business Consultant  
Home Town: Houston  
Birthdate: 10-26-1967  
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### Personal Information

University of Houston, B.A., M.B.A.  
  
House Member, 2009-2018; Senate Member: 2018 - present

### Office Information

Dist. 6 - Harris (20%)

### Committees

[Economic Development](#); [Finance](#); [Natural Resources](#); [Nominations](#); [Special Committee on Congressional Redistricting](#)

### Contact and Phone Numbers

Capitol Office:  
1E.9  
Capitol Phone: (512) 463-0106  
[✉ carol.alvarado@senate.texas.gov](mailto:carol.alvarado@senate.texas.gov)  
[📍 District Map](#)

District Office-Houston  
4450 Harrisburg, Suite 436  
Houston, TX 77011  
[📞 \(713\) 926-6257](tel:(713)926-6257)

### Capitol Staff

| Office                                  | Office Holder                         | Phone / Fax    |
|-----------------------------------------|---------------------------------------|----------------|
| Chief of Staff                          | <a href="#">Jaime Villarreal, Jr.</a> | (512) 463-0106 |
| Senior Counsel & SDC Executive Director | <a href="#">Sushma Jasti Smith</a>    | (512) 463-0106 |
| Scheduler & Office Manager              | <a href="#">Ana Baglieri</a>          | (512) 463-0106 |
| Legislative Director                    | <a href="#">Claire Leonard</a>        | (512) 463-0106 |
| General Counsel                         | <a href="#">Giovanna DiNapoli</a>     | (512) 463-0106 |
| Communication Director                  | <a href="#">Mason Whiteside</a>       | (512) 463-0106 |
| Legislative Aide                        | <a href="#">Milan Sam</a>             |                |

### District Staff

| Office            | Office Holder                   | Phone / Fax    |
|-------------------|---------------------------------|----------------|
| District Director | <a href="#">Megan Maldonado</a> | (713) 926-6257 |
| Policy Analyst    | <a href="#">Erin Gonzales</a>   | (713) 926-6257 |

# Rep. Harold V. Dutton, Jr. (D)

Last modified on: 07-06-2021 15:29:26

[↩ Back to Texas House of Representatives](#)

TX House Representative  
([Texas House of Representatives](#))

Entered Office: 01-08-1985  
District: 142



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## General Information

Profession: Attorney  
Home Town: Houston  
Birthdate: 02-17-1945  
[Download vCard \(?\)](#)

## Personal Information

BBA-Texas Southern University; JD-TSU Thurgood Marshall School of Law  
  
H-1985-present.

## Office Information

Dist. 142 - Harris (4%)  
  
Sens. Alvarado, Cook, Miles

## Committees

[S/C on Family & Fiduciary Relationships-Chair](#); [Judiciary & Civil Jurisprudence](#); [Public Education](#); [S/C on Academic and Career-Oriented Education](#)

## Contact and Phone Numbers

Capitol Office:  
3N.5  
Capitol Phone: (512) 463-0510  
[📍 Zip Codes Within The District](#)  
[📍 District Map](#)  
[✉ harold.dutton@house.texas.gov](mailto:harold.dutton@house.texas.gov)

District Office:  
8799 North Loop East, Suite 200  
Houston, TX 77029  
[📞 \(713\) 692-9192](#)  
[📠 \(713\) 692-6791](#)

## Staff

| Office                                | Office Holder                 | Phone / Fax    |
|---------------------------------------|-------------------------------|----------------|
| District Director/Executive Assistant | <a href="#">Mary Fontenot</a> | (512) 463-0510 |

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found 1 item where the item contains **north channel branch library** and **School** libraries omitted .

☐

☐ list ☐

search:

## North Channel Branch Library

[Harris County, TX](#)

**Address:** 15741 Wallisville Road  
**Houston, Texas**  
77049-4607  
United States

**County:** [Harris](#)



**Region:** [Houston Area](#)

**Phone:** 281-457-1631

**Connect to:** [Library Web Site✓](#) [Online Catalog](#)

**Library details:** North Channel Branch Library is a **Public** library.

This library is affiliated with [Harris County Public Library](#) ([view map](#)) . The collection of the library contains **88,822** volumes. The library circulates **363,228** items per year.

**Permalink:**  <https://librarytechnology.org/library/24359>  
(Use this link to refer back to this listing.)

**Organizational structure:** This is a publicly funded and managed library.

See also: [Directory of Public Libraries in the United States](#)

See also: [Directory of Public Libraries in Texas](#)

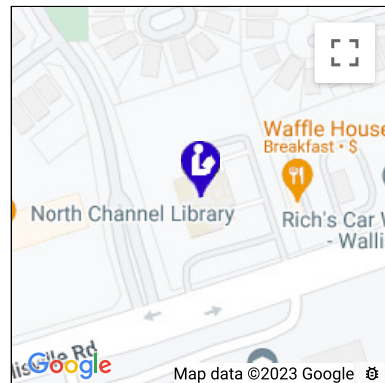
|                    |         |              |
|--------------------|---------|--------------|
| Collection size    | 88,822  | volumes      |
| Annual Circulation | 363,228 | transactions |

 **Wireless:** The library offers **wireless** access to the Internet.

| Technology Profile         |                          |                 |
|----------------------------|--------------------------|-----------------|
|                            | Product Name             | Year Contracted |
| Current Automation System  | <a href="#">Symphony</a> | 2015            |
| Previous Automation System | <a href="#">Horizon</a>  | 2001            |
| Previous Automation System | <a href="#">Dynix</a>    | 1994            |
| Previous Automation System | <a href="#">Carl</a>     | 1990            |



North Channel Branch Library



map location✓

### Related Libraries

- Other members of [Harmonic Consortium](#)
- Libraries located in [Houston](#) (Texas)
- Libraries located in [Harris](#) county (Texas)
- [View map of libraries in Harris County](#)
- [all Public libs in Texas](#)
- [United States](#)
- [Automation systems in Texas](#)

[About libraries.org](#)

|                                                                                                                                           |                            |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|
| <b>Previous Automation System</b>                                                                                                         | <a href="#">UTLAS</a>      | 1985                 |
| <b>Discovery Interface</b>                                                                                                                | <a href="#">BiblioCore</a> | <a href="#">2022</a> |
| <b>Previous Discovery Interface</b>                                                                                                       | Enterprise                 | 2015                 |
| <b>Web Content Management</b>                                                                                                             | BiblioWeb                  |                      |
| (* Older versions of SirsiDynix Symphony were called Unicorn)                                                                             |                            |                      |
| The library participates in the shared automation system provided by the <a href="#">Harmonic Consortium</a> ( <a href="#">view map</a> ) |                            |                      |

[View Privacy and Security Report](#)

**Automation Survey:** We are conducting a study on the automation systems used in libraries. This survey should be completed by a person familiar with your libraries use of **Symphony**.

[Respond to the 2023 Library Automation Perceptions Survey](#)

| Identifiers             |                        |
|-------------------------|------------------------|
| <b>libraries.org ID</b> | 24359                  |
| <b>OCLC Symbol</b>      | #ht                    |
| <b>NCES FSCSKEY</b>     | <a href="#">TX0101</a> |
| <b>NCES LIBID</b>       | 190.179                |

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This entry is from the [Directory of Public Libraries in Texas](#).

Please [contact Marshall Breeding](#) to report corrections about information listed for this library.

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**From:** Raghavan, Sneha <Sneha.Raghavan@stantec.com>  
**Sent:** Friday, October 17, 2025 3:43 PM  
**To:** Miguel Gallegos  
**Cc:** Gary McDonald  
**Subject:** RE: Southbow Terminals LLC – Renewal of SOP O4253, Project 38970  
**Attachments:** Form OP-1 (10002)\_Updated\_101425.pdf; 20251016 1238 - OP-DEL new DAR Robert M. Baumgartner eff 20201014.pdf; 20251016 1238 - OP-CRO2 new RO Gary Salsman.pdf

Hi Miguel,

Please find attached copies of updated OP-1, OP-DEL and OP-CRO2 form.

Please let us know as soon as possible if this suffices your request.

Regards,  
**Sneha Raghavan**  
Senior Regulatory Compliance Specialist

Direct: 817-203-0661  
Cell: 682-816-6360  
[sneha.raghavan@stantec.com](mailto:sneha.raghavan@stantec.com)

Stantec  
6080 Tennyson Parkway, Suite 200  
Plano, TX 75024



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**From:** Miguel Gallegos <[miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)>  
**Sent:** Friday, October 17, 2025 3:22 PM  
**To:** Raghavan, Sneha <[Sneha.Raghavan@stantec.com](mailto:Sneha.Raghavan@stantec.com)>  
**Cc:** Gary McDonald <[gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com)>; [gary.salsman@southbow.com](mailto:gary.salsman@southbow.com)  
**Subject:** FW: Southbow Terminals LLC – Renewal of SOP O4253, Project 38970

Sneha,

The signature dates in the attached OP-CRO2 and OP-DEL forms are preventing me from making contact data updates or certify the application in our permitting database. The effective dates can be earlier than 09/09/2025, but the signature dates need to match the STEERS Copy of Record. Please email corrected OP-CRO2 and OP-DEL with signature dates matching the attached STEERS Copy of Record signature date of 09/09/2025. Thanks!



**Miguel Gallegos**

Texas Commission on Environmental Quality  
Office of Air, Air Permits Division  
Air Permits Initial Review Team (APIRT)  
12100 Park 35 Circle, MC-161, Austin, Texas 78753-1808  
Tel: (512) 239-1185, eFax: (512) 239-1400  
Email: [miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)



---

**From:** Miguel Gallegos  
**Sent:** Friday, October 17, 2025 10:25 AM  
**To:** Raghavan, Sneha <[sneha.raghavan@stantec.com](mailto:sneha.raghavan@stantec.com)>  
**Cc:** Gary McDonald <[gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com)>  
**Subject:** RE: Southbow Terminals LLC – Renewal of SOP O4253, Project 38970

Hello, Sneha

Thank you for the corrected documents. As I've been entering the new data, I have come across an error with section VIII.B of the OP-1 form. Based on the site location you provided in section X, the State Representative you have entered is incorrect. A search of the Texas State Directory, <https://www.txdirectory.com/>, shows State Representative Harold V. Dutton Jr. should be listed. Please see the attached images. Please email a corrected OP-1 form directly to me as soon as possible.

Thank you.

**Miguel Gallegos**

Texas Commission on Environmental Quality  
Office of Air, Air Permits Division  
Air Permits Initial Review Team (APIRT)  
12100 Park 35 Circle, MC-161, Austin, Texas 78753-1808  
Tel: (512) 239-1185, eFax: (512) 239-1400  
Email: [miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)



---

**From:** Raghavan, Sneha <[Sneha.Raghavan@stantec.com](mailto:Sneha.Raghavan@stantec.com)>  
**Sent:** Thursday, October 16, 2025 12:39 PM  
**To:** Miguel Gallegos <[miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)>  
**Cc:** Gary McDonald <[gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com)>  
**Subject:** RE: URGENT! - Southbow Terminals LLC – Renewal of SOP O4253, Project 38970

Hi Miguel,

Good afternoon. Please find attached copy of the following:

1. OP-CRO2 form to change RO to Gary Salsman

2. Updated OP-1 form
3. A new OP-DEL form

We are confirming that Gary Salsman is the RO for the facility.

Please let me know if you have any questions and if this is enough for the application to be deemed complete and accepted.

Regards,

**Sneha Raghavan**

Senior Regulatory Compliance Specialist

Direct: 817-203-0661

Cell: 682-816-6360

[sneha.raghavan@stantec.com](mailto:sneha.raghavan@stantec.com)

Stantec

6080 Tennyson Parkway, Suite 200

Plano, TX 75024

---

**From:** Miguel Gallegos <[miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)>

**Sent:** Wednesday, October 15, 2025 1:52 PM

**To:** Raghavan, Sneha <[Sneha.Raghavan@stantec.com](mailto:Sneha.Raghavan@stantec.com)>

**Cc:** Gary McDonald <[gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com)>

**Subject:** RE: URGENT! - Southbow Terminals LLC – Renewal of SOP O4253, Project 38970

Thanks for the update, Sneha. I will watch for the documents tomorrow.

**Miguel Gallegos**

Texas Commission on Environmental Quality

Office of Air, Air Permits Division

Air Permits Initial Review Team (APIRT)

12100 Park 35 Circle, MC-161, Austin, Texas 78753-1808

Tel: (512) 239-1185, eFax: (512) 239-1400

Email: [miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)



---

**From:** Raghavan, Sneha <[Sneha.Raghavan@stantec.com](mailto:Sneha.Raghavan@stantec.com)>

**Sent:** Wednesday, October 15, 2025 10:04 AM

**To:** Miguel Gallegos <[miguel.gallegos@tceq.texas.gov](mailto:miguel.gallegos@tceq.texas.gov)>

**Cc:** Gary McDonald <[gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com)>

**Subject:** URGENT! - Southbow Terminals LLC – Renewal of SOP O4253, Project 38970

**Importance:** High

Hi Miguel,

Good morning. Hope you are doing well. Per your request, we are unable to get the required signature from Gary Salsman (RO) today but will be able to get them tomorrow. We are requesting an extension of deadline to submit the corrected OP-1 form, OP-CRO2 and OP-DEL form by close of business tomorrow. Please let me know if you have any questions. Thank you and have a great day.

Regards,

**Sneha Raghavan**

Senior Regulatory Compliance Specialist

Direct: 817-203-0661

Cell: 682-816-6360

[sneha.raghavan@stantec.com](mailto:sneha.raghavan@stantec.com)

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6080 Tennyson Parkway, Suite 200

Plano, TX 75024

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**Form OP-DEL-Instructions**  
**Delegation of Responsible Official Information**  
**Texas Commission on Environmental Quality**

**General:**

A Responsible Official (RO) representing a corporation may choose to delegate signature authority to a Duly Authorized Representative (DAR). Such delegation may be made to an individual that has responsibility for the overall operation of one or more manufacturing, production, or operating facilities applying for, or subject to, a federal operating permit. The DAR option is only available for corporations, not partnerships, military bases, or municipalities. [30 TAC Chapter 122.165(c) and 40 CFR 70.2 defining "responsible official"] Note that RO identifying information (name, address, title, etc.) must appear on Form OP-1 (Site Information Summary) even if the RO authority is being delegated to a DAR. Please refer to the Form OP-1 instructions for additional information.

This form also satisfies the requirements for notification of a change of DAR appointment, administrative information changes (e.g., address, phone and title) regarding the DAR, or the removal of a previously appointed DAR. During an application review, change notifications should be included in the next submittal to TCEQ regarding the permit. Please notify TCEQ in advance of changes.

After the initial permit application submittal, include a completed Form OP-CRO2 (Change of Responsible Official) with the next submittal to TCEQ if there is:

1. a new RO, Designated Representative (DR), or Alternate Designated Representative (ADR) appointment; or
2. administrative information changes regarding the RO, DR, or ADR.

**For new delegations, this form must bear the signatures of the RO and the DAR. For administrative information changes, this form must bear the signature of either the RO or the DAR. For removal of a previously appointed DAR, this form must bear the signature of the RO.** Signature stamps can be accepted in place of an original signature. Electronic signature stamps such as DocuSign will not be accepted. **The RO signature date will be used to validate the signature authority of the RO and must be on or after the effective date of the RO delegating to or removing a specific DAR via this action.** The effective date of the RO delegating to the DAR will be based on one of the following:

1. the date the initial application was submitted, if the name of the RO delegating to or removing the DAR was included in the initial application submittal on Form OP-1 (Site Information Summary); or
2. the Appointment Effective Date on Form OP-CRO2, if the RO delegating to or removing the DAR is not the original RO included in the initial Form OP-1 and the RO was changed via Form OP-CRO2.

If the "Action Type" in Section II of this form is designating an "Administrative Information Change," and the submittal is signed by the DAR, the DAR signature date will be used to validate the signature authority of the DAR and must be on or after the delegation effective date of the DAR certifying the submittal. A DAR cannot certify information unless the DAR has signature authority.

This form must be submitted to TCEQ through Title V STEERS. A copy of the form must also be submitted to the appropriate TCEQ Regional Office and EPA. Information on where to submit this form can be found on the TCEQ website at: [www.tceq.texas.gov/permitting/air/titlev/submittal](http://www.tceq.texas.gov/permitting/air/titlev/submittal).

TCEQ also requires that a Core Data Form be submitted on all incoming applications unless all the following are met: the Regulated Entity Number (RN) and Customer Reference Number (CN) have been issued by TCEQ and no core data information has changed. The Central Registry is a common record area of TCEQ, which maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred as, "core data." The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary. When core data about a facility is moved to the Central Registry, two new identification numbers are assigned: the CN and the RN. The Core Data Form is required if facility records are not yet part of the Central Registry or if core data for a facility has changed.

If this is the initial permit for a site, then the Core Data Form must be completed and submitted with application forms. If amending, modifying, or otherwise updating an existing record for a site, the Core Data Form is not required, unless any core data information has changed. To review additional information regarding the Central Registry, go to the TCEQ website at: [www.tceq.texas.gov/permitting/central\\_registry/guidance](http://www.tceq.texas.gov/permitting/central_registry/guidance).

---

**Specific:**

**I. Identifying Information**

- **Account No.:** Enter the primary TCEQ account number (XX-XXXX-X) for the site if issued.

*Note: Please use these instructions when completing Section V, if applicable.*

- **RN:** Enter the Regulated Entity Number (RN) for the site if issued. This number is issued by TCEQ as part of the central registry process. If an RN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space. (maximum 11 characters; RNXXXXXXXXXX)

*Note: Please use these instructions when completing Section V, if applicable.*

- **CN:** Enter the Customer Reference Number (CN) for the site if issued. This number is issued by TCEQ as part of the central registry process. If a CN has not yet been issued, leave this space blank. Do not enter permit numbers, project numbers, account numbers, etc. in this space. (maximum 11 characters; CNXXXXXXXXXX)

*Note: Please use these instructions when completing Section V, if applicable.*

- **Permit No.:** Enter the operating permit number, if known (OXXXX). If this is an initial application submittal for an SOP, a TOP, or a GOP, the permit number will be assigned upon receipt by TCEQ. In this case, enter "TBA" for "to be assigned." The permit number will appear on all correspondence from TCEQ regarding a specific application or group of applications. The applicant may contact the permit review engineer for assistance.

*Note: Please use these instructions when completing Section V, if applicable.*

- **Area Name:** Enter the area name used on Form OP-1 (Site Information Summary) of the initial application. If there is only one permit at the site, the area name is the same as the site name. (maximum 50 characters)

*Note: Please use these instructions when completing Section V, if applicable.*

- **Company Name:** Enter the name of the company, corporation, organization, individual, etc. applying for or holding the referenced permit. (maximum 50 characters)

*Note: Please use these instructions when completing Section V, if applicable.*

## II. Duly Authorized Representative (DAR) Information

- **Action Type:** Indicate the type of action, “New DAR Identification” or “Administrative Information Change,” by placing an “X” in the appropriate box.
- **Conventional Title:** Place an “X” next to the appropriate conventional title (Mr. /Mrs. /Ms. /Dr.).
- **Name:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the name of the new DAR being appointed (maximum 25 characters). For submittals with an “Action Type” designation of “Administrative Information Change,” enter the name of the current DAR, incorporating any necessary changes (maximum 25 characters). Note: Use the name on the driver’s license associated with the STEERS account.
- **Title:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the title of the new DAR (maximum 25 characters). For submittals with an “Action Type” designation of “Administrative Information Change,” enter the title of the current DAR, incorporating any necessary changes (maximum 25 characters).
- **Delegation Effective Date:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the date that the appointment of the new DAR became, or will become, effective (MM/DD/YYYY).

For submittals with an “Action Type” designation of “Administrative Information Change,” leave the Delegation Effective Date blank. The signature date of the RO or DAR that is entered in Section III of this form will become the “Delegation Effective Date.”

- **Telephone Number:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the telephone number with the area code of the new DAR. For submittals with an “Action Type” designation of “Administrative Information Change,” enter the telephone number of the current DAR, if changed. If the telephone number is unchanged, leave the space blank.
- **Fax Number:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the fax number with the area code of the new DAR. For submittals with an “Action Type” designation of “Administrative Information Change,” enter the fax number of the current DAR, if changed. If the fax number is unchanged, leave the space blank.
- **Company Name:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the company name for the new DAR. For submittals with an “Action Type” designation of “Administrative Information Change,” enter the company name for the current DAR, if changed. If the company name is unchanged, leave the space blank.
- **Mailing Address:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the mailing address of the new DAR, including city, state, and ZIP Code. For submittals with an “Action Type” designation of “Administrative Information Change,” enter the city, state, and ZIP Code of the mailing address for the current DAR, if changed. If any portion of the mailing address is unchanged, leave the corresponding space blank. (address maximum - 50 characters; city maximum - 25 characters)
- **Email Address:** For submittals with an “Action Type” designation of “New DAR Identification,” enter the email address for the new DAR. For submittals with an “Action Type” designation of “Administrative Information Change,” enter the email address for the current DAR, if changed. If the email address is unchanged, leave the space blank. (email address - maximum 50 characters)

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

Submittals with an “Action Type” designation of “New DAR Identification” must be signed by the RO whose authority is being delegated to a specific DAR via this action. Submittals with an “Action Type” designation of “Administrative Information Change” may be signed by the RO or DAR.

- **Certifier Name (Responsible Official (RO) or DAR):** For submittals with “Action Type” designation of “New DAR Identification,” print or type the name of the RO whose authority is being delegated to the DAR via this action (maximum 25 characters). For submittals with “Action Type” designation of “Administrative Information Change,” print or type the name of the RO or DAR certifying this submittal (maximum 25 characters).
- **Responsible Official Signature:** Signature of the RO is required.
- **Responsible Official Signature Date:** Enter the date this form was signed by the RO (MM/DD/YYYY).

*Note: The Signature Date will be used to validate the signature authority of the RO and must be on or after the effective date of the RO delegating to a specific DAR via this action. See the “General” section for information regarding the effective date of an RO.*

- **Duly Authorized Representative Signature:** Signature of the DAR is required. A DAR must sign submittals with “Action Type” designation of “New DAR Identification” where an RO is delegating authority to a specific DAR.
- **Duly Authorized Representative Signature Date:** Enter the date this form was signed by the DAR (MM/DD/YYYY).

*Note: For submittals with “Action Type” designation of “New DAR Identification,” the DAR Signature Date is used as an indication that the DAR is in agreement with the delegation. For submittals with “Action Type” designation of “Administrative Information Change,” and the submittal is signed by the DAR, the Signature Date will be used to validate the signature authority of the DAR and must be on or after the Delegation Effective Date of the DAR certifying the submittal.*

### IV. Removal of Duly Authorized Representative(s) (DAR)

Requests to remove DAR(s) must be signed by the RO who is removing DAR signature authority via this action.

- **DAR Name(s):** Print or type the name of each DAR whose signature authority is being removed via this action.
- **Effective Date:** Enter the date the removal of DAR signature authority became, or will become, effective (MM/DD/YYYY).
- **Responsible Official Signature:** Signature of the RO is required.
- **Responsible Official Signature Date:** Enter the date this form was signed by the RO (MM/DD/YYYY).

*Note: The Signature Date will be used to validate the signature authority of the RO and must be on or after the effective date of the RO removing DAR authority via this action. See the “General” section for information regarding the effective date of an RO.*

## Extension Page

### V. Additional Identifying Information

Complete this table only if this certification form is being used to certify DAR information or remove DAR(s) on multiple application areas or sites for which the RO and DAR(s) have signature authority. Please see the instructions in Section I of this form for completing the identifying information.

*Note: Please include Federal Operating Permit Numbers only. New Source Review Permit Numbers should not be included on this form.*

A Responsible Official (RO) may choose to delegate signature authority to a Duly Authorized Representative (DAR). Such delegation may be made to an individual that has responsibility for the overall operation of one or more manufacturing, production, or operating facilities applying for, or subject to, a federal operating permit. Signature stamps can be accepted in place of an original signature. Electronic signature stamps such as DocuSign will not be accepted. Photocopies and electronic submittals can be submitted, however, must be followed up with the original Form OP-DEL. This form must be submitted to TCEQ through Title V STEERS.

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

|                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Identifying Information</b>                                                                                                                               |
| Account Number: NA                                                                                                                                              |
| Regulated Entity Number: RN 106655947                                                                                                                           |
| Customer Reference Number: CN 605011642                                                                                                                         |
| Permit Number: O4253                                                                                                                                            |
| Area Name: Houston Tank Terminal                                                                                                                                |
| Company Name: South Bow Terminals, LLC                                                                                                                          |
| <b>II. Duly Authorized Representative Information</b>                                                                                                           |
| Action Type:<br><input checked="" type="checkbox"/> New DAR Identification<br><input type="checkbox"/> Administrative Information Change                        |
| 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 License/STEERS): Robert M. Baumgartner                                                                                                             |
| Title: Manager Environmental Services                                                                                                                           |
| Delegation Effective Date: 10/14/20                                                                                                                             |
| Telephone Number: 402-960-0483                                                                                                                                  |
| Fax Number:                                                                                                                                                     |
| Company Name: South Bow Terminals, LLC                                                                                                                          |
| Mailing Address: 920 Memorial City Way, Suite 800                                                                                                               |
| City: Houston                                                                                                                                                   |
| State: Texas                                                                                                                                                    |
| ZIP Code: 77024                                                                                                                                                 |
| Email Address: robert.baumgartner@southbow.com                                                                                                                  |

**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, Gary Salsman

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

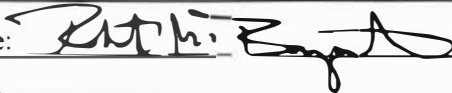
Certify that, based on information and belief formed after reasonable inquiry, the statements, and information stated above are true, accurate, and complete. (RO signature required for New DAR Identification only; DAR signature required for any Action Type)

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



Date: 09/09/2025

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



(Name(s) printed or typed) Robert M. Baumgartner

Date: 09/09/2025

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

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

Ryan Berger

(Name(s) printed or typed)

Effective Date: 09/09/2025

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



Date: 09/09/2025



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

**V. Additional Identifying Information**

Account Number:

Regulated Entity Number: RN

Customer Reference Number: CN

Permit Number:

Area Name:

Account Number:

Regulated Entity Number: RN

Customer Reference Number: CN

Permit Number:

Area Name:

Account Number:

Regulated Entity Number: RN

Customer Reference Number: CN

Permit Number:

Area Name:

Account Number:

Responsible Official: RN

Customer Reference Number: CN

Permit Number:

Area Name:

Account Number:

Regulated Entity Number: RN

Customer Reference Number: CN

Permit Number:

Area Name:

**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 No.: NA                                                                                                                                                                                                                                                                                                                                     |
| Regulated Entity Number: RN RN106655947                                                                                                                                                                                                                                                                                                             |
| Customer Reference Number: CN CN605011642                                                                                                                                                                                                                                                                                                           |
| Permit Number: O4253                                                                                                                                                                                                                                                                                                                                |
| Area Name: Houston Tank Terminal                                                                                                                                                                                                                                                                                                                    |
| Company: South Bow Terminals, LLC.                                                                                                                                                                                                                                                                                                                  |
| <b>II. Change Type</b>                                                                                                                                                                                                                                                                                                                              |
| Action Type:<br><input type="checkbox"/> New Appointment<br><input checked="" type="checkbox"/> Administrative Information Change                                                                                                                                                                                                                   |
| Contact Type (only one response accepted per form):<br><input checked="" type="checkbox"/> Responsible Official<br><input type="checkbox"/> Designated Representative ( <i>Acid Rain Program and/or CSAPR sources only</i> )<br><input type="checkbox"/> Alternate Designated 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:                                                                                        |
| <input checked="" type="checkbox"/> Mr.                                                                    |
| <input type="checkbox"/> Mrs.                                                                              |
| <input type="checkbox"/> Ms.                                                                               |
| <input type="checkbox"/> Dr.                                                                               |
| Name (Driver's License/STEERS): Gary Salsman                                                               |
| Title: Vice-President, Safety and Operations                                                               |
| Appointment Effective Date:                                                                                |
| Telephone Number: 346-802-5911                                                                             |
| Fax Number.: Use email                                                                                     |
| Company Name: South Bow Terminals, LLC                                                                     |
| Mailing Address: 920 Memorial City Way, Suite 800                                                          |
| City: Houston                                                                                              |
| State: Texas                                                                                               |
| ZIP Code: 77024                                                                                            |
| Email Address: gary.salsman@southbow.com                                                                   |

**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, Gary Salsman, certify that based on information and belief formed Reasonable inquiry, the statement and information stated above are true, accurate, and complete.

Signature: 

Signature Date: 09/09/2025

**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: South Bow Terminals LLC                                                                                                                                                                                                                  |
| B. Customer Reference Number (CN): CN 605011642                                                                                                                                                                                                           |
| C. Submittal Date (mm/dd/yyyy): 10/14/2025                                                                                                                                                                                                                |
| <b>II. Site Information</b>                                                                                                                                                                                                                               |
| A. Site Name: Houston Tank Terminal                                                                                                                                                                                                                       |
| B. Regulated Entity Reference Number (RN): <b>RN</b> 106655947                                                                                                                                                                                            |
| 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 type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input 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>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 checked="" type="checkbox"/> Yes <input 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: Gary Salsman                                                                                                                                                                                                                                   |
| RO Title: Vice-President, Safety and Operations                                                                                                                                                                                                              |
| Employer Name: South Bow Terminals LLC                                                                                                                                                                                                                       |
| Mailing Address: 920 Memorial City Way, Suite 800                                                                                                                                                                                                            |
| City: Houston                                                                                                                                                                                                                                                |
| State: Texas                                                                                                                                                                                                                                                 |
| ZIP Code: 77024                                                                                                                                                                                                                                              |
| Territory: N/A                                                                                                                                                                                                                                               |
| Country: US                                                                                                                                                                                                                                                  |
| Foreign Postal Code: N/A                                                                                                                                                                                                                                     |
| Internal Mail Code: N/A                                                                                                                                                                                                                                      |
| Telephone No.:                                                                                                                                                                                                                                               |
| Fax No.: Please use email                                                                                                                                                                                                                                    |
| Email: gary.salsman@southbow.com                                                                                                                                                                                                                             |

**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: Gary McDonald                                                                                                                                                                                                        |
| Technical Contact Title: Environmental Specialist                                                                                                                                                                                                 |
| Employer Name: South Bow Terminals LLC                                                                                                                                                                                                            |
| Mailing Address: 1113 N Little Ave                                                                                                                                                                                                                |
| City: Cushing                                                                                                                                                                                                                                     |
| State: Oklahoma                                                                                                                                                                                                                                   |
| ZIP Code: 74023                                                                                                                                                                                                                                   |
| Territory: N/A                                                                                                                                                                                                                                    |
| Country: US                                                                                                                                                                                                                                       |
| Foreign Postal Code: N/A                                                                                                                                                                                                                          |
| Internal Mail Code: N/A                                                                                                                                                                                                                           |
| Telephone No.: 346-324-1838                                                                                                                                                                                                                       |
| Fax No.: Please use email                                                                                                                                                                                                                         |
| Email: gary.mcdonald@southbow.com                                                                                                                                                                                                                 |
| <b>VIII. Reference Only Requirements</b> <i>(For reference only.)</i>                                                                                                                                                                             |
| <b>A.</b> State Senator: Carol Alvarado                                                                                                                                                                                                           |
| <b>B.</b> State Representative: Harold V. Dutton Jr.                                                                                                                                                                                              |
| <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: Spanish                                                                                                                                                          |



**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: Houston Tank Terminal                                                                                                             |
| <b>B.</b> Physical Address: 7101 Miller Road 2                                                                                                         |
| City: Houston                                                                                                                                          |
| State: TX                                                                                                                                              |
| ZIP Code: 77049                                                                                                                                        |
| <b>C.</b> Physical Location:                                                                                                                           |
| 7101 Miller Road 2                                                                                                                                     |
|                                                                                                                                                        |
|                                                                                                                                                        |
| <b>D.</b> Nearest City: Houston                                                                                                                        |
| <b>E.</b> State: TX                                                                                                                                    |
| <b>F.</b> ZIP Code: 77049                                                                                                                              |

**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): 29° 49' 35"                                                                                                                                                                                                                               |
| <b>H.</b> Longitude (nearest second): 95° 08' 35"                                                                                                                                                                                                                              |
| <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: 10                                                                                                                                                                                          |
| <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: North Channel Library                                                                                                                                                                                   |
| <b>B.</b> Physical Address: 15741 Wallisville Rd.                                                                                                                                                                                                                              |
| City: Houston                                                                                                                                                                                                                                                                  |
| ZIP Code: 77049                                                                                                                                                                                                                                                                |
| <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: Gary McDonald                                                                                                                                                                                                                                        |
| Contact Mailing Address: 1113 N Little Ave                                                                                                                                                                                                                                     |
| City: Cushing                                                                                                                                                                                                                                                                  |
| State: Oklahoma                                                                                                                                                                                                                                                                |
| ZIP Code: 74023                                                                                                                                                                                                                                                                |
| Territory:                                                                                                                                                                                                                                                                     |
| Country:                                                                                                                                                                                                                                                                       |
| Foreign Postal Code:                                                                                                                                                                                                                                                           |
| Internal Mail Code:                                                                                                                                                                                                                                                            |
| Telephone No.: 346-324-1838                                                                                                                                                                                                                                                    |

**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:

**PRINT FORM**

**RESET FORM**

**Table 1-1**  
**NNSR/PSD Applicability Analysis Summary**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| EPN                                                 | Facility Description                           | VOC     |              | NOx    |             | CO     |             | SO2    |             | PM/PM10/PM2.5 |             | H2S    |             |
|-----------------------------------------------------|------------------------------------------------|---------|--------------|--------|-------------|--------|-------------|--------|-------------|---------------|-------------|--------|-------------|
|                                                     |                                                | lb/hr   | tpy          | lb/hr  | tpy         | lb/hr  | tpy         | lb/hr  | tpy         | lb/hr         | tpy         | lb/hr  | tpy         |
| BO-TK-01                                            | Tank BO-TK-01                                  | 12.0473 | 19.71        | -      | -           | -      | -           | -      | -           | -             | -           | 0.0035 | 0.006       |
| BO-TK-02                                            | Tank BO-TK-02                                  | 12.0473 | 19.71        |        |             |        |             |        |             |               |             | 0.0035 | 0.006       |
| BO-TK-03                                            | Tank BO-TK-03                                  | 12.0823 | 19.76        |        |             |        |             |        |             |               |             | 0.0037 | 0.006       |
| BO-TK-04                                            | Tank BO-TK-04                                  | 12.0823 | 19.76        |        |             |        |             |        |             |               |             | 0.0037 | 0.006       |
| TANKCAP                                             | Tank Cap <sup>1</sup>                          | 72.4000 | 91.60        |        |             |        |             |        |             |               |             | 0.0144 | 0.02        |
| FWPump1                                             | Emergency Firewater Pump                       | 0.0223  | <0.01        | 0.5789 | 0.03        | 0.1113 | 0.01        | 0.9948 | 0.05        | 0.0200        | <0.01       | -      | -           |
| FWPump2                                             | Foam System Pump                               | 1.0364  | 0.05         | 0.5280 | 0.03        | 0.3341 | 0.02        | 0.0284 | 0.00        | 0.0346        | <0.01       | -      | -           |
| EmerEng                                             | Emergency Generator                            | 0.0978  | <0.01        | 3.6480 | 0.18        | 0.8360 | 0.04        | 0.9880 | 0.05        | 0.1064        | <0.01       | -      | -           |
| FUG                                                 | Fugitive Piping Components <sup>1</sup>        | 0.8200  | 3.59         | -      | -           | -      | -           | -      | -           | -             | -           | <0.01  | <0.01       |
| MSS                                                 | Maintenance Start Up and Shutdown <sup>1</sup> | 67.5900 | 4.30         | 3.5200 | 0.76        | 6.6000 | 1.07        | 2.8950 | 4.07        | 0.3278        | 0.04        | 0.35   | 0.03        |
| <b>Total Facility Emissions (tpy)<sup>1,2</sup></b> |                                                |         | <b>99.51</b> |        | <b>1.00</b> |        | <b>1.13</b> |        | <b>4.17</b> |               | <b>0.04</b> |        | <b>0.05</b> |
| <b>Major Source Threshold (tpy)</b>                 |                                                |         | <b>100</b>   |        | <b>100</b>  |        | <b>100</b>  |        | <b>100</b>  |               | <b>100</b>  |        | <b>100</b>  |
| <b>Major Source(Yes/No)</b>                         |                                                |         | <b>No</b>    |        | <b>No</b>   |        | <b>No</b>   |        | <b>No</b>   |               | <b>No</b>   |        | <b>No</b>   |
| <b>Netting Threshold (tons)</b>                     |                                                |         | <b>NA</b>    |        | <b>NA</b>   |        | <b>NA</b>   |        | <b>NA</b>   |               | <b>NA</b>   |        | <b>NA</b>   |
| <b>Netting Required (Yes/No)</b>                    |                                                |         | <b>NA</b>    |        | <b>NA</b>   |        | <b>NA</b>   |        | <b>NA</b>   |               | <b>NA</b>   |        | <b>NA</b>   |
| <b>Contemporaneous Period Change (tons)</b>         |                                                |         | <b>NA</b>    |        | <b>NA</b>   |        | <b>NA</b>   |        | <b>NA</b>   |               | <b>NA</b>   |        | <b>NA</b>   |
| <b>Significant Modification Threshold (tons)</b>    |                                                |         | <b>NA</b>    |        | <b>NA</b>   |        | <b>NA</b>   |        | <b>NA</b>   |               | <b>NA</b>   |        | <b>NA</b>   |
| <b>Federal Review Required (Yes/No)</b>             |                                                |         | <b>No</b>    |        | <b>No</b>   |        | <b>No</b>   |        | <b>No</b>   |               | <b>No</b>   |        | <b>No</b>   |

Note:

**Table 1-2**  
**Emissions Summary**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| EPN                                         | FIN     | Name                                    | Appendix<br>Tables | VOC   |              | NO <sub>x</sub> |             | CO    |             | PM/PM <sub>10</sub> /PM <sub>2.5</sub> |             | H <sub>2</sub> S |             | SO <sub>2</sub> |             |
|---------------------------------------------|---------|-----------------------------------------|--------------------|-------|--------------|-----------------|-------------|-------|-------------|----------------------------------------|-------------|------------------|-------------|-----------------|-------------|
|                                             |         |                                         |                    | lb/hr | tpy          | lb/hr           | tpy         | lb/hr | tpy         | lb/hr                                  | tpy         | lb/hr            | tpy         | lb/hr           | tpy         |
| TKCAP                                       | Various | Storage Tank Emissions Cap <sup>1</sup> |                    | 72.40 | 91.60        | -               | -           | -     | -           | -                                      | -           | 0.01             | 0.02        | -               | -           |
| FWPump1                                     | FWPump1 | Firewater Pump                          |                    | 0.02  | <0.01        | 0.58            | 0.03        | 0.11  | 0.01        | 0.02                                   | <0.01       | -                | -           | 0.99            | 0.05        |
| FWPump2                                     | FWPump2 | Foam System Pump                        |                    | 1.04  | 0.05         | 0.53            | 0.03        | 0.33  | 0.02        | 0.03                                   | <0.01       |                  |             | 0.03            | 0.00        |
| EmerEng                                     | EmerEng | Emergency Engine                        |                    | 0.10  | <0.01        | 3.65            | 0.18        | 0.84  | 0.04        | 0.11                                   | <0.01       | -                | -           | 0.99            | 0.05        |
| FUG                                         | FUG     | Piping Fugitive Components <sup>1</sup> |                    | 0.82  | 3.59         | -               | -           | -     | -           | -                                      | -           | <0.01            | <0.01       | -               | -           |
| MSS                                         | MSS     | MSS Emissions Cap <sup>1</sup>          |                    | 67.59 | 4.30         | 3.52            | 0.76        | 6.60  | 1.07        | 0.33                                   | 0.04        | 0.35             | 0.03        | 2.89            | 4.07        |
| <b>Total Emission Rates: <sup>1,2</sup></b> |         |                                         |                    | -     | <b>99.51</b> | -               | <b>1.00</b> | -     | <b>1.13</b> | -                                      | <b>0.04</b> | <b>0.36</b>      | <b>0.05</b> | -               | <b>4.17</b> |

Table 1-3  
Non-Rule Standard Permit Limit Emissions Summary  
South Bow Terminals LLC (Houston Tank Terminal)

| EPN                                  | FIN      | Name                                    | VOC                                                            |                                              |       | Benzene                                                        |                                              |          | NO <sub>x</sub>                                   |                                              |      | CO                                                |                                              |      |
|--------------------------------------|----------|-----------------------------------------|----------------------------------------------------------------|----------------------------------------------|-------|----------------------------------------------------------------|----------------------------------------------|----------|---------------------------------------------------|----------------------------------------------|------|---------------------------------------------------|----------------------------------------------|------|
|                                      |          |                                         | Steady-state or <30 psig periodic release (lb/hr) <sup>1</sup> | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy   | Steady-state or <30 psig periodic release (lb/hr) <sup>1</sup> | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy      | Steady-state or <30 psig periodic release (lb/hr) | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy  | Steady-state or <30 psig periodic release (lb/hr) | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy  |
| BO-TK-01                             | BO-TK-01 | Tank BO-TK-01                           | 0.57                                                           | -                                            | -     | 3.12E-04                                                       | -                                            | -        | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| BO-TK-02                             | BO-TK-02 | Tank BO-TK-02                           | 0.57                                                           | -                                            | -     | 3.12E-04                                                       | -                                            | -        | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| BO-TK-03                             | BO-TK-03 | Tank BO-TK-03                           | 0.60                                                           | -                                            | -     | 3.31E-04                                                       | -                                            | -        | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| BO-TK-04                             | BO-TK-04 | Tank BO-TK-04                           | 0.60                                                           | -                                            | -     | 3.31E-04                                                       | -                                            | -        | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| TANKCAP                              | TANKCAP  | Storage Tank Emissions Cap <sup>1</sup> | -                                                              | -                                            | 91.60 | -                                                              | -                                            | 5.95E+02 | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| FWPump1                              | FWPump1  | Emergency Firewater Pump                | 0.02                                                           | -                                            | <0.01 | -                                                              | -                                            | -        | 0.58                                              | -                                            | 0.03 | 0.11                                              | -                                            | 0.01 |
| FWPump2                              | FWPump2  | Foam System Pump                        | 1.04                                                           | -                                            | 0.05  | -                                                              | -                                            | -        | 0.53                                              | -                                            | 0.03 | 0.33                                              | -                                            | 0.02 |
| EmerEng                              | EmerEng  | Emergency Generator                     | 0.10                                                           | -                                            | <0.01 | -                                                              | -                                            | -        | 3.65                                              | -                                            | 0.18 | 0.84                                              | -                                            | 0.04 |
| FUG                                  | FUG      | Fugitive Piping Components <sup>1</sup> | 0.82                                                           | -                                            | 3.59  | 5.33E-04                                                       | -                                            | 2.33E+03 | -                                                 | -                                            | -    | -                                                 | -                                            | -    |
| MSS                                  | MSS      | MSS Emissions Cap <sup>1</sup>          | 67.59                                                          | -                                            | 4.30  | 4.39E-02                                                       | -                                            | 2.80E+03 | 3.52                                              | -                                            | 0.76 | 6.60                                              | -                                            | 1.07 |
| Total Emission Rates: <sup>1,2</sup> |          |                                         |                                                                | -                                            | 99.51 | 4.58E-02                                                       | -                                            | 0.06     | 8.27                                              | -                                            | 1.00 | 7.88                                              | -                                            | 1.13 |
| Non-Rule Standard Permit Limits:     |          |                                         | 145                                                            | 318                                          | 250   | 7                                                              | 15.4                                         | 10.2     | 121                                               | -                                            | 250  | 104                                               | -                                            | 250  |
| Meets Non-Rule Standard Permit:      |          |                                         | YES                                                            | -                                            | YES   | YES                                                            | -                                            | YES      | YES                                               | -                                            | YES  | YES                                               | -                                            | YES  |

Note:  
1 Current Permit (04253) Emissions Cap for Storage Tanks, Piping Fugitive Components and MSS Emissions Cap  
2. With four (4) tanks, the VOC emissions are as follows:

| Facility                          | VOC     |       |
|-----------------------------------|---------|-------|
|                                   | lb/hr   | tpy   |
| Tanks BO-TK-01 to BO-TK-02        | 48.2593 | 78.95 |
| Fugitive Piping Components        | 0.10    | 0.42  |
| Maintenance Start Up and Shutdown | 67.59   | 3.97  |

**Table 1-3**  
**Non-Rule Standard Permit Limit Emissions Summary**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| EPN                                         | FIN      | Name                                    | PM/PM <sub>10</sub> /PM <sub>2.5</sub>            |                                              |             | H <sub>2</sub> S                                               |                                              |             | SO <sub>2</sub>                                   |                                              |             |
|---------------------------------------------|----------|-----------------------------------------|---------------------------------------------------|----------------------------------------------|-------------|----------------------------------------------------------------|----------------------------------------------|-------------|---------------------------------------------------|----------------------------------------------|-------------|
|                                             |          |                                         | Steady-state or <30 psig periodic release (lb/hr) | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy         | Steady-state or <30 psig periodic release (lb/hr) <sup>1</sup> | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy         | Steady-state or <30 psig periodic release (lb/hr) | ≥ 30 psig periodic (up to 600 hr/yr) (lb/hr) | tpy         |
| BO-TK-01                                    | BO-TK-01 | Tank BO-TK-01                           | -                                                 | -                                            | -           | 0.0035                                                         | -                                            | -           | -                                                 | -                                            | -           |
| BO-TK-02                                    | BO-TK-02 | Tank BO-TK-02                           | -                                                 | -                                            | -           | 0.0035                                                         | -                                            | -           | -                                                 | -                                            | -           |
| BO-TK-03                                    | BO-TK-03 | Tank BO-TK-03                           | -                                                 | -                                            | -           | 0.0037                                                         | -                                            | -           | -                                                 | -                                            | -           |
| BO-TK-04                                    | BO-TK-04 | Tank BO-TK-04                           | -                                                 | -                                            | -           | 0.0037                                                         | -                                            | -           | -                                                 | -                                            | -           |
| TANKCAP                                     | TANKCAP  | Storage Tank Emissions Cap <sup>1</sup> | -                                                 | -                                            | -           | -                                                              | -                                            | 2.27E-02    | -                                                 | -                                            | -           |
| FWPump1                                     | FWPump1  | Emergency Firewater Pump                | 0.02                                              | -                                            | <0.01       | -                                                              | -                                            | -           | 0.99                                              | -                                            | 0.05        |
| FWPump2                                     | FWPump2  | Foam System Pump                        | 0.03                                              | -                                            | <0.01       | -                                                              | -                                            | -           | 0.03                                              | -                                            | 0.00        |
| EmerEng                                     | EmerEng  | Emergency Generator                     | 0.11                                              | -                                            | <0.01       | -                                                              | -                                            | -           | 0.99                                              | -                                            | 0.05        |
| FUG                                         | FUG      | Fugitive Piping Components <sup>1</sup> | -                                                 | -                                            | -           | <0.01                                                          | -                                            | <0.01       | -                                                 | -                                            | -           |
| MSS                                         | MSS      | MSS Emissions Cap <sup>1</sup>          | 0.33                                              | -                                            | 0.04        | 0.35                                                           | -                                            | 0.03        | 2.89                                              | -                                            | 4.07        |
| <b>Total Emission Rates: <sup>1,2</sup></b> |          |                                         | <b>0.49</b>                                       | <b>-</b>                                     | <b>0.04</b> | <b>0.36</b>                                                    | <b>-</b>                                     | <b>0.05</b> | <b>4.91</b>                                       | <b>-</b>                                     | <b>4.17</b> |
| <b>Non-Rule Standard Permit Limits:</b>     |          |                                         | <b>28</b>                                         | <b>-</b>                                     | <b>15</b>   | <b>10.8</b>                                                    | <b>9.8</b>                                   | <b>47</b>   | <b>93.2</b>                                       | <b>-</b>                                     | <b>250</b>  |
| <b>Meets Non-Rule Standard Permit:</b>      |          |                                         | <b>YES</b>                                        | <b>-</b>                                     | <b>YES</b>  | <b>YES</b>                                                     | <b>-</b>                                     | <b>YES</b>  | <b>YES</b>                                        | <b>-</b>                                     | <b>YES</b>  |

Note:

1 Current Permit (04253) Emissions Cap for Storage Tanks, Piping Fugitive Components and MSS Emiss

2. With four (4) tanks, the VOC emissions are as follows:

|                                   | VOC     |
|-----------------------------------|---------|
| Facility                          | lb/hr   |
| Tanks BO-TK-01 to BO-TK-02        | 48,2593 |
| Fugitive Piping Components        | 0.10    |
| Maintenance Start Up and Shutdown | 67.59   |





**Title V Operating Permit  
Renewal Application  
Permit No.: O4253**

South Bow Terminals, LLC  
Houston Tank Terminal  
Harris County, Houston

August 2025

Prepared for:  
South Bow Terminals, LLC  
Houston Tank Terminal  
7101 Miller Road 2  
Houston, TX 77049

Prepared by:

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**TITLE V RENEWABLE OPERATING PERMIT APPLICATION**  
**PERMIT NO.: O4253**  
**SOUTH BOW TERMINALS LLC (HOUSTON TANK TERMINAL)**  
**AUGUST 2025**  
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## **1.0 TECHNICAL SUPPORT DOCUMENTATION**

### **1.1 PROJECT INFORMATION**

South Bow Terminals, LLC (South Bow) owns and operates the Houston Tank Terminal located in Houston, Harris County, Texas. The Federal Operating Permit (FOP) No. O4253 for the Houston Tank Terminal expires on April 8, 2026. As required under 30 TAC §122.133, South Bow is submitting this permit renewal application no later than 6 months prior to expiration of the permit, or October 8, 2025. This is considered a timely renewal application, and the facility will be authorized to continue to operate until Texas Commission on Environmental Quality (TCEQ) takes final action on this application.

Twenty-two (22) storage tanks are currently authorized via Non-Rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities (Permit No: 156483). However, only four (4) storage tanks have been constructed. South Bow is requesting removal of tanks 5 through 22 (BO-TK-05 to BO-TK-22) from the FOP; however, keep the same emissions cap established for storage tanks during the initial FOP issuance. The pipeline throughput remains unchanged even though only four (4) storage tanks have been constructed. Leaving the emissions cap unchanged allows for future expansion and operational flexibility to respond to market changes and customer demands.

### **1.2 PROCESS DESCRIPTION**

The Houston Tank Terminal is a bulk liquid petroleum storage terminal. Crude oils and/or crude oil condensates are transferred via pipeline to and from the terminal storage tanks.

A simplified process flow diagram is included in Appendix A (Figure 1). The plot plan is included in Appendix A (Figure 3)

### **1.3 LOCATION INFORMATION**

The Houston Tank Terminal is located near Houston, Harris County. An Area Map indicating a 3,000 foot radius around the terminal is included in Appendix A (Figure 2).

### **1.4 APPLICATION ORGANIZATION**

The renewal application forms included are as follows:

- OP-1 (Site Information Summary)
- OP-2 (Application for Permit Revision/Renewal)
- OP-ACPS (Application Compliance Plan and Schedule)
- OP-REQ 1(Application Area-Wide Applicability Determinations and General Information)
- OP-REQ 2 (Negative Applicable Requirement Determinations)

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- OP-REQ 3 (Applicable Requirements Summary)
- OP-PBRSUP (Permits by Rule Supplemental Table)
- OP-SUMR (Individual Unit Summary for Revisions)
- OP-MON (Monitoring Requirements)
- OP-UA (Unit Attribute) Forms

## **1.5 EMISSION CALCULATIONS**

The following describes the calculations used to determine the emission rates associated with each emission source category included in this permit application. Detailed emission calculations are presented in Appendices C and D of this application.

The terminal will handle a wide range of crude oils and/or crude oil condensates. The Reid Vapor Pressure (RVP) of the crude and/or crude oil condensates managed at the terminal vary from month to month, however, a maximum TVP of 11 psia is the basis for the proposed emission limits. South Bow proposes to keep the current emission cap (91.60 tons per year (tpy) of volatile organic compounds (VOCs)) for storage tanks rather than individual throughput limits due to the varying nature of crude oils and crude oil condensates and customer markets at the proposed terminal. South Bow proposes to manage the storage tanks included in this application such that the permitted emission limits are not exceeded. Managing to the emissions cap allows South Bow the operational flexibility to respond to market changes and customer demands.

### **1.5.1 Routine Emissions**

The following describes the emission calculations associated with each routine emission source category in this permit application.

#### **1.5.1.1 Storage Tank Emissions**

For storage tanks, the emission calculations for routine working and breathing emissions are estimated using the calculations methods in Compilation of Air Pollutant Emission Factors: Volume I Stationary Point and Area Sources (AP-42, Fifth Edition, US EPA, October 2024 (hereafter referred to in this application as AP-42) Section 7.1. Short-term emission rates are calculated using AP-42 Section 7 equations using maximum temperature and vapor pressure.

Detailed storage tank emission calculations are included in Appendix C, as Tables C-1 and C-2.

#### **1.5.1.2 Emergency Firewater Pumps and Generator**

Non-emergency emissions will occur from weekly testing of two (2) diesel-fired emergency firewater pumps and generator. Maximum hourly emissions were calculated based on testing at the maximum engine capacity. Annual emissions were based on 100 hours testing per year per engine.

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Detailed emission calculations for the emergency firewater pumps and generator are included in Appendix C, as Tables C-3, C-4 and C-5.

### **1.5.1.3 Piping Equipment Fugitives**

The fugitive emissions from piping components and ancillary equipment were estimated using methods outlined in the TCEQ's air permit technical guidance for chemical sources (APDG 6422). Each fugitive component was classified first by equipment type (valve, pump, relief valve, etc.) and then by material type (gas/vapor, light liquid, heavy liquid). Total emission rates were obtained by multiplying the number of fugitive components of a particular type by the appropriate Petroleum Marketing Terminal emission factor.

Detailed piping fugitive calculations are included in Appendix C as Table C-6.

### **1.5.2 Maintenance, Startup and Shutdown Emissions (MSS)**

Maintenance, startup, and shutdown (MSS) activities and associated emissions will occur to support terminal operation. The following describes the calculations used to determine the MSS emissions associated with each emission source included in this permit application.

Detailed emission calculations are presented in Appendix D of this application.

#### **1.5.2.1 Storage Tank Floating Roof Landing Losses**

The roof-landing events occur for predictable maintenance events, periods of inventory control, and routine product changes. Floating roof landing emissions are estimated using the methods in Subsection 7.1.3.2.2 Roof Landings of Section 7.1 Organic Liquid Storage Tanks of AP-42. For a given roof-landing event, total landing loss emissions are therefore the sum of the filling losses and the daily standing idle losses over the entire period that the roof remained landed. Landing losses are inherently episodic in nature and must be determined each time a tank's floating roof is landed. Landing losses occur from floating roof tanks whenever the tank is drained to a level where its roof lands on its legs or other supports (including roof suspension cables). When a floating roof lands on its supports or legs while the tank is being drained, the floating roof remains at the same height while the product level continues to lower. This creates a vapor space underneath the roof. Liquid remaining in the bottom of the tank provides a continuous source of vapors to replace those expelled by breathing (in the case of internal floating roof tanks) or wind action (in the case of external floating roof tanks). These emissions, referred to as *standing idle losses (LSL)*, occur daily as long as the floating roof remains landed. Additional emissions occur when incoming stock liquid fills a tank with a landed roof. The incoming volume of liquid not only displaces an equivalent volume of vapors from below the floating roof but also generates its own set of product vapors that are displaced during the filling process. These two types of emissions are collectively referred to as *filling losses (LFL)*. The calculation methodology used of the standing loss and refilling emissions is discussed in further detail below.

Similar to breathing losses under normal operating conditions, standing idle losses occur during that period a roof is landed with product still in the tank. Emission calculation equations for these losses are from

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Subsection 7.1.2.2.1 Standing Idle Losses in Section 7.1 of AP-42. The quantity of emissions is dependent upon the number of days idle, tank type (IFR/EFR), type of product stored, and the time of the year. Maximum hourly VOC emissions for tanks with idle standing losses were determined by calculating the losses for one day and then dividing by twelve hours/day. Twelve hours were used since the tanks breathe out for twelve hours/day and breathe in the other twelve hours.

Similar to loading losses, refilling losses occur while a tank is being filled with product during that period of time a roof is landed. Emission calculation equations for these losses are from Subsection 7.1.3.2.2.2 of AP- 42. The quantity of emissions is dependent upon the tank type (IFR/EFR), type of product stored, time of year, and fill rate. The maximum refilling loss is based on: (1) the tank re-fill rate; and (2) the month resulting in the highest emission as a function of vapor pressure (July). Maximum hourly VOC emissions were determined by dividing the filling emissions (LFL) by the maximum pumping rate. The calculation assumes that the product vapors within the vapor space under the tank roof are emitted from the tank at the same rate as the liquid coming into the tank. Once a tank is drained, tanks storing products with true vapor pressures greater than 0.5 psia are degassed and the vapors removed from the vapor space under the floating roof are routed to vapor combustor until the VOC concentration in the vapor space is less than 10,000 parts per million by volume (ppmv) after which the tank may vent to atmosphere. Blowers are used to ventilate the tank and force out any residual volatile organic compound (VOC) material. Emissions from the vapor combustion device have been estimated using the methods outlined in the TCEQ's *Air Permit Technical Guidance for Chemical Sources: Flares and Oxidizers, October 2002*. VOC, NO<sub>x</sub>, SO<sub>2</sub>, PM/PM<sub>10</sub>/PM<sub>2.5</sub> and CO emissions were estimated from the vapor combustion due to tank roof landing. VOC emissions are based on vendor guaranteed destruction efficiency of at least 99.8%. SO<sub>2</sub> emissions associated with crude oil and crude condensate vapor control were based on 100% conversion of any H<sub>2</sub>S in the waste gas stream while SO<sub>2</sub> emissions associated with assist gas usage were based on AP-42, Section 3.2.7 emission factors. H<sub>2</sub>S emissions were based on a max liquid concentration of 50 ppm and a corresponding DRE of 98%. PM/PM<sub>10</sub>/PM<sub>2.5</sub> emissions were based on emission factors from AP-42, Section 3.2-7.

Detailed floating roof storage tank roof landing MSS emissions are included in Appendix D as Tables D-2 through D-4.

### **1.5.2.2 Equipment Venting**

Equipment venting includes, but is not limited to, liquid draining, venting to control, venting to atmosphere post control and refilling emissions during startup. The equipment venting emissions are calculated using the ideal gas law using the volume of the equipment and the material properties of the VOC material contained in the equipment. Short-term and annual emissions are based on an assumed number of simultaneous events and annual events per year, respectively. The equipment venting calculations are included to determine the contribution to the MSS cap purposes only. These emission calculations are not to be considered enforceable representations as to the magnitude, duration, and/or frequency of individual activities.

Equipment with isolated volumes equal to or less than 255 ft<sup>3</sup> will be vented to the atmosphere uncontrolled while equipment with isolated volumes greater than 255 ft<sup>3</sup> will first be degassed to a portable vapor control

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device so to attain a VOC concentration below 10,000 ppmv. VOC, NO<sub>x</sub>, SO<sub>2</sub>, PM/PM<sub>10</sub>/PM<sub>2.5</sub> and CO emissions were estimated from the vapor combustion. VOC emissions are based on vendor guaranteed destruction efficiency of at least 99.8%. SO<sub>2</sub> emissions associated with crude oil and crude condensate vapor control were based on 100% conversion of any H<sub>2</sub>S in the waste gas stream while SO<sub>2</sub> emissions associated with assist gas usage were based on AP-42, Section 3.2.7 emission factors. H<sub>2</sub>S emissions were based on a max liquid concentration of 100 ppm and a corresponding DRE of 98%. PM/PM<sub>10</sub>/PM<sub>2.5</sub> emissions were based on emission factors from AP-42, Section 3.2-7.

Detailed equipment venting emission calculations are included in Appendix D as Table B-5.

### **1.5.2.3 Vacuum Truck and Frac Tank Loading**

Emissions from the use of air movers and frac tanks are estimated using the loading loss equation from AP-42, Section 5.2.

Detailed vacuum truck and frac tank loading emissions are included in Appendix D as Table D-6.

## **1.6 REGULATORY APPLICABILITY SUMMARY**

### **1.6.1 New Source Performance Standards (NSPS)**

NSPS contained in 40 CFR 60 require new, modified, or reconstructed sources to control emissions to the level achievable by the best demonstrated technology as specified in the relevant regulations. These NSPS regulations were reviewed to determine their applicability to the Houston Tank Terminal equipment or to confirm non-applicability as appropriate. The results of this review are summarized below by regulatory citation.

#### **1.6.1.1 40 CFR 60 Subpart A – General Provisions**

This regulation has general provisions that are referenced by other more specific NSPS regulations.

#### **1.6.1.2 40 CFR 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.**

NSPS Subpart Kb applies to storage vessels with a capacity greater than or equal to 75 cubic meters (approximately 19,800 gallons) used to store volatile organic liquids with a maximum true vapor pressure greater than 15 kilopascals (kPa) that were constructed after July 23, 1984. The volatile organic liquid storage vessels at Houston Tank Terminal have capacity greater than 75 cubic meters (approximately 19,812 gallons). Therefore, this regulation is applicable.

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**1.6.1.3 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE)**

Subpart IIII (Standards of Performance for Stationary CI ICE) applies to manufacturers, owners, and operators of stationary CI ICE. The emergency generator and two (2) firewater pumps at the Houston Tank Terminal are subject to this regulation.

**1.6.2 National Emission Standards for Hazardous Air Pollutants (NESHAP)**

Federal NESHAP regulations promulgated pursuant to Section 112 of the CAA are found in 40 CFR Parts 61 and 63. In general, NESHAP, or Maximum Achievable Control Technology (MACT) standards apply to major stationary sources of HAP emissions, defined as potential-to-emit of 10 tons or more per year of any single HAP or 25 tons or more per year of any combination of HAP and minor stationary sources of HAP emissions (thresholds less than a major source). The Houston Tank Terminal is an area source of HAPs. Potentially applicable NESHAPs are discussed below.

**1.6.2.1 40 CFR 63 Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines (RICE)**

NESHAP Subpart ZZZZ regulates HAP emissions from existing, new, and reconstructed stationary compression ignition (CI) and spark ignition (SI), emergency and non-emergency, RICE located at major and area sources of HAP emissions. This standard is applicable to the Houston Tank Terminal. The emergency generator and fire water pumps meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR part 60 (NSPS) Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

**1.6.3 Texas State Air Regulations**

**1.6.3.1 Chapter 111 – Visible Emissions and Particulate Matter**

Houston Tank Terminal is subject to and will operate in compliance with all requirements of 30 TAC Chapter 111.

**1.6.3.2 10.1.2 Chapter 112 – Sulfur Compounds**

Houston Tank Terminal is subject to and will operate in compliance with the requirements of 30 TAC Chapter 112.

**1.6.3.3 10.1.3 Chapter 115 – Volatile Organic Compounds (VOC)**

Houston Tank Terminal is subject to and will operate in compliance with the following subchapters of 30 TAC 115:

- 30 TAC §115.112 – Control Requirements for Storage of Volatile Organic Compounds;
- 30 TAC §115.542 – Control Requirements for Degassing of Storage Tanks, Transfer Vessels, and Marine Vessels.



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**1.6.3.4 10.1.4 Chapter 117 – Nitrogen Compounds**

Houston Tank Terminal is subject to and will operate in compliance with the applicable requirements of 30 TAC Chapter 117.

**Storage Tank/Vessel Attributes  
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**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. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| 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. |
|-------------|-------------------|----------------|------------------|-----------------|-------------|----------------------------|-------------|-----------|---------------------|-----------------------|
| GRPTNK      | 60Kb-1            | CRUD-AF3       | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           | CR2+                |                       |
| GRPSUMP     | 60Kb-1            | CRUD-AF3       | 10K-             |                 |             |                            |             |           |                     |                       |
|             |                   |                |                  |                 |             |                            |             |           |                     |                       |
|             |                   |                |                  |                 |             |                            |             |           |                     |                       |
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**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, Division 1: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| GRPTNK      | R5112-1           | NO                            |            | OIL1           | B40K+            |            |                   |                        |
| GRPSUMP     | R5112-1           | NO                            |            | OIL1           | A1K-25K          |            |                   |                        |
| GRPSUMP     | R5112-2           | NO                            |            | OIL1           | A1K-25K          |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |
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**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, Division 1: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| 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. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| GRPTNK      | R5112-1           |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| GRPSUMP     | R5112-1           |                   | SFP1             | 1.5+A               |              |                |                     |                       |
| GRPSUMP     | R5112-2           |                   | VRS1             | 1.5+A               |              |                | CARADS              | CARBON1               |
|             |                   |                   |                  |                     |              |                |                     |                       |
|             |                   |                   |                  |                     |              |                |                     |                       |
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**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. |
|------------|------------|----------------------|
| 08/14/2025 | O4253      | RN106655947          |

| 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 |
|-------------|-------------------|------------|----------|-----------------------------------------|--------------------------------------|--------------|-------------------------|
| FWPUMP1     | 63ZZZZ-1          | AREA       | 100-250  | 06+                                     |                                      |              |                         |
| EMERENG     | 63ZZZZ-1          | AREA       | 100-250  | 06+                                     |                                      |              |                         |
| FWPUMP2     | 63ZZZZ-1          | AREA       | 100-     | 06+                                     |                                      |              |                         |
|             |                   |            |          |                                         |                                      |              |                         |
|             |                   |            |          |                                         |                                      |              |                         |
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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. |
|------------|------------|----------------------|
| 08/14/2025 | O4253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Applicability Date | Exemptions | Service | Commencing | Manufacture Date |
|-------------|-------------------|--------------------|------------|---------|------------|------------------|
| FWPUMP1     | 60IIII-1          | 2005+              | NONE       | FIRE    | CON        | 0706+            |
| EMERENG     | 60IIII-1          | 2005+              | NONE       | EMERG   | CON        | 0406+            |
| FWPUMP2     | 60IIII-1          | 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. |
|------------|------------|----------------------|
| 08/14/2025 | O4253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Diesel | AES No. | Displacement | Generator Set | Model Year | Install Date |
|-------------|-------------------|--------|---------|--------------|---------------|------------|--------------|
| FWPUMP1     | 60IIII-1          | DIESEL |         | 10-          |               | 2014       |              |
| EMERENG     | 60IIII-1          | DIESEL |         | 10-CS        |               | 2013       |              |
| FWPUMP2     | 60IIII-1          | DIESEL |         | 10-          |               | 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 IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Kilowatts | Filter | AECD | Standard | Compliance Option | PM Compliance | Options |
|-------------|-------------------|-----------|--------|------|----------|-------------------|---------------|---------|
| FWPUMP1     | 60IIII-1          | F37-75    |        |      | NO       | MANU YES          |               |         |
| EMERENG     | 60IIII-1          | E75-130   |        |      | NO       | MANU YES          |               |         |
| FWPUMP2     | 60IIII-1          | F37-75    |        |      | NO       | MANU YES          |               |         |
|             |                   |           |        |      |          |                   |               |         |
|             |                   |           |        |      |          |                   |               |         |
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**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, Division 3: 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. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Title 30 TAC § 115.352<br>Applicable | < 250<br>Components at Site | Weight Percent VOC | Reciprocating<br>Compressors or Positive<br>Displacement Pumps |
|-------------|-------------------|--------------------------------------|-----------------------------|--------------------|----------------------------------------------------------------|
| FUG         | R5352-1           | NO                                   |                             |                    |                                                                |
|             |                   |                                      |                             |                    |                                                                |
|             |                   |                                      |                             |                    |                                                                |
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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: HRVOC, Division 3: Fugitive Emissions**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| 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 |
| FUG          | R5780-1           | NO                                |                                  |                      |                                                   |                                    |                                  |
|              |                   |                                   |                                  |                      |                                                   |                                    |                                  |
|              |                   |                                   |                                  |                      |                                                   |                                    |                                  |
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|              |                   |                                   |                                  |                      |                                                   |                                    |                                  |

**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. |                                                                                   |                                           |
|--------------------|------------------------------|---------------------|------------------------------------|--------------------------------|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------|
| 08/14/2025         |                              | O4253               |                                    |                                | RN106655947          |                                                                                   |                                           |
| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/ Description | Unit/Process<br>CAM  | Preconstruction<br>Authorizations<br>30 TAC Chapter<br>116/ 30 TAC<br>Chapter 106 | Preconstruction<br>Authorizations Title I |
| D                  | 1                            | BO-TK-05            | OP-UA3                             | Tank BO-TK-05                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-06            | OP-UA3                             | Tank BO-TK-06                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-07            | OP-UA3                             | Tank BO-TK-07                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-08            | OP-UA3                             | Tank BO-TK-08                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-09            | OP-UA3                             | Tank BO-TK-09                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-10            | OP-UA3                             | Tank BO-TK-10                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-11            | OP-UA3                             | Tank BO-TK-11                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-12            | OP-UA3                             | Tank BO-TK-12                  | -                    | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-13            | OP-UA3                             | Tank BO-TK-13                  | -                    | 156483                                                                            | -                                         |

| Unit/Process<br>AI | Unit/Process<br>Revision No. | Unit/Process ID No. | Unit/Process<br>Applicable<br>Form | Unit/Process Name/ Description | Unit/Process<br>CAM | Preconstruction<br>Authorizations<br>30 TAC Chapter<br>116/ 30 TAC<br>Chapter 106 | Preconstruction<br>Authorizations Title I |
|--------------------|------------------------------|---------------------|------------------------------------|--------------------------------|---------------------|-----------------------------------------------------------------------------------|-------------------------------------------|
| D                  | 1                            | BO-TK-14            | OP-UA3                             | Tank BO-TK-14                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-15            | OP-UA3                             | Tank BO-TK-15                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-16            | OP-UA3                             | Tank BO-TK-16                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-17            | OP-UA3                             | Tank BO-TK-17                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-18            | OP-UA3                             | Tank BO-TK-18                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-19            | OP-UA3                             | Tank BO-TK-19                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-20            | OP-UA3                             | Tank BO-TK-20                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-21            | OP-UA3                             | Tank BO-TK-21                  | -                   | 156483                                                                            | -                                         |
| D                  | 1                            | BO-TK-22            | OP-UA3                             | Tank BO-TK-22                  | -                   | 156483                                                                            | -                                         |

**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. |
|------------|------------|----------------------|
| 08/14/2025 | O4253      | RN106655947          |

| Revision No. | ID No.   | Applicable Form | Group AI | Group ID No. |
|--------------|----------|-----------------|----------|--------------|
| 1            | BO-TK-05 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-06 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-07 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-08 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-09 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-10 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-11 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-12 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-13 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-14 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-15 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-16 | OP-UA3          | D        | GRPTNK       |

| Revision No. | ID No.   | Applicable Form | Group AI | Group ID No. |
|--------------|----------|-----------------|----------|--------------|
| 1            | BO-TK-17 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-18 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-19 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-20 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-21 | OP-UA3          | D        | GRPTNK       |
| 1            | BO-TK-22 | OP-UA3          | D        | GRPTNK       |

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

**Table 3: Acid Rain, Cross-State Air Pollution Rule (CSAPR), and Texas SO<sub>2</sub> Trading Program**

| Date | Permit No. | Regulated Entity No. |
|------|------------|----------------------|
| N/A  | N/A        | N/A                  |

| Unit ID No. | Applicable Form | COR Unit ID No. | Acid Rain | ARP Status | CSAPR | CSAPR Monitoring | Texas SO <sub>2</sub> | Texas SO <sub>2</sub> Monitoring | COR |
|-------------|-----------------|-----------------|-----------|------------|-------|------------------|-----------------------|----------------------------------|-----|
|             |                 |                 |           |            |       |                  |                       |                                  |     |
|             |                 |                 |           |            |       |                  |                       |                                  |     |
|             |                 |                 |           |            |       |                  |                       |                                  |     |
|             |                 |                 |           |            |       |                  |                       |                                  |     |
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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. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| 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. |
|-------------|-------------------|----------------|------------------|-----------------|-------------|----------------------------|-------------|-----------|---------------------|-----------------------|
| GRPTNK      | 60Kb-1            | CRUD-AF3       | 40K+             |                 | 0.75-11.1   | IFR-MT                     |             |           | CR2+                |                       |
| GRPSUMP     | 60Kb-1            | CRUD-AF3       | 10K-             |                 |             |                            |             |           |                     |                       |
|             |                   |                |                  |                 |             |                            |             |           |                     |                       |
|             |                   |                |                  |                 |             |                            |             |           |                     |                       |
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|             |                   |                |                  |                 |             |                            |             |           |                     |                       |



**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, Division 1: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| Unit ID No. | SOP/GOP Index No. | Alternate Control Requirement | ACR ID No. | Product Stored | Storage Capacity | Throughput | Potential to Emit | Uncontrolled Emissions |
|-------------|-------------------|-------------------------------|------------|----------------|------------------|------------|-------------------|------------------------|
| GRPTNK      | R5112-1           | NO                            |            | OIL1           | B40K+            |            |                   |                        |
| GRPSUMP     | R5112-1           | NO                            |            | OIL1           | A1K-25K          |            |                   |                        |
| GRPSUMP     | R5112-2           | NO                            |            | OIL1           | A1K-25K          |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |
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|             |                   |                               |            |                |                  |            |                   |                        |
|             |                   |                               |            |                |                  |            |                   |                        |

**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, Division 1: Storage of Volatile Organic Compounds (VOCs)**  
**Texas Commission on Environmental Quality**

| Date       | Permit No. | Regulated Entity No. |
|------------|------------|----------------------|
| 08/14/2025 | 04253      | RN106655947          |

| 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. |
|-------------|-------------------|-------------------|------------------|---------------------|--------------|----------------|---------------------|-----------------------|
| GRPTNK      | R5112-1           |                   | IFR1             | 1.5+A               |              |                |                     |                       |
| GRPSUMP     | R5112-1           |                   | SFP1             | 1.5+A               |              |                |                     |                       |
| GRPSUMP     | R5112-2           |                   | VRS1             | 1.5+A               |              |                | CARADS              | CARBON1               |
|             |                   |                   |                  |                     |              |                |                     |                       |
|             |                   |                   |                  |                     |              |                |                     |                       |
|             |                   |                   |                  |                     |              |                |                     |                       |
|             |                   |                   |                  |                     |              |                |                     |                       |
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|             |                   |                   |                  |                     |              |                |                     |                       |

# 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. |
|------------|------------|----------------------|
| 08/14/2025 | O4253      | RN106655947          |

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 type="checkbox"/> Yes <input checked="" 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 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| ◆ 8.                                                                                                 | Emissions from units in the application area include contributions from uncombined water.                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" 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

### Texas Commission on Environmental Quality

| Date       | Permit No. | Regulated Entity No. |
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| 08/14/2025 | O4253      | RN106655947          |

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|                                                                                                                                                                    | 3. All vents from nonagricultural process in the application area are subject to additional monitoring requirements.                                                                                     | <input type="checkbox"/> Yes <input 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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| 08/14/2025 | O4253      | RN106655947          |

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ◆ 2.                                                                                                                    | Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.                                                                                           | <input 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 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 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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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>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 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 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 5)

### Federal Operating Permit Program

### Texas Commission on Environmental Quality

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For SOP applications, answer ALL questions unless otherwise directed.

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| III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds<br>(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 type="checkbox"/> Yes <input checked="" 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 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 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 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 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 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 type="checkbox"/> No                                         |
| D. Loading and Unloading of VOCs                                                                        |                                                                                                                                                                                                                                                                |                                                                                                  |
| ◆ 1.                                                                                                    | The application area includes VOC loading operations.                                                                                                                                                                                                          | <input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |

# Application Area-Wide Applicability Determinations and General Information

## Form OP-REQ1 (Page 6)

### Federal Operating Permit Program

### Texas Commission on Environmental Quality

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| 08/14/2025 | O4253      | RN106655947          |

For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <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 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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For SOP applications, answer ALL questions unless otherwise directed.

◆ For GOP applications, answer ONLY these 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>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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| III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued) |                                                                                                                                                                                                                                                                                         |                                                                                                  |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| K. Cutback Asphalt                                                                                   |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| 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 type="checkbox"/> No <input checked="" 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 type="checkbox"/> No <input type="checkbox"/> N/A            |
| 3.                                                                                                   | Asphalt emulsion is used or produced within the application area.                                                                                                                                                                                                                       | <input type="checkbox"/> Yes <input 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 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                                         |
| L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels                                  |                                                                                                                                                                                                                                                                                         |                                                                                                  |
| ◆ 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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| III. Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued) |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| L. Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)                      |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| ◆ 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 |
| M. Petroleum Dry Cleaning Systems                                                                    |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |
| 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 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 type="checkbox"/> No                                         |
| 5.                                                                                                          | The application area contains pressure relief valves that are not controlled by a flare.                                                                                                                                                                                               | <input 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 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 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 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 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 checked="" type="checkbox"/> Yes <input 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 type="checkbox"/> Yes <input checked="" 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 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 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 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><b>Manufacturing Commercial Asbestos (continued)</b></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><b>Asbestos Spray Application</b></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 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 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 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 type="checkbox"/> No |
| 4. The application area includes benzene transfer operations at tank-truck loading racks.                                                                                                                                                       | <input type="checkbox"/> Yes <input 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 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 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 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 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 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><i>Applicability (continued)</i></b>                                                                                                                                                                                               |                                                          |
| 6. The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.                                                                                                                 | <input 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 type="checkbox"/> Yes <input type="checkbox"/> No |
| <b><i>Waste Stream Exemptions</i></b>                                                                                                                                                                                                 |                                                          |
| 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 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 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 type="checkbox"/> Yes <input type="checkbox"/> No |
| 11. The application area transfers waste off-site for treatment by another facility.                                                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12. The application area is complying with 40 CFR § 61.342(d).                                                                                                                                                                        | <input type="checkbox"/> Yes <input 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 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 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 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 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 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 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 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 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 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 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 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)                                                                                                                                                                                                                                                                                                                                                                    |                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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 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 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 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 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>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</b>                                                                                                                               |                                                          |
| <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 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 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 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 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 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 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 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><i>Reloading or Cleaning of Railcars, Tank Trucks, or Barges</i></b>                                                                                                                                                               |                                                                                                                                                                                                                                   |                                                          |
| 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 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 |
| <b><i>Transfer Racks</i></b>                                                                                                                                                                                                          |                                                                                                                                                                                                                                   |                                                          |
| 11.                                                                                                                                                                                                                                   | The application area includes Group 1 transfer racks that load organic HAPs.                                                                                                                                                      | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <b><i>Process Wastewater Streams</i></b>                                                                                                                                                                                              |                                                                                                                                                                                                                                   |                                                          |
| 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 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 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 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 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 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 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 type="checkbox"/> Yes <input type="checkbox"/> No |
| 21. The application area includes process wastewater streams, located at existing sources that are Group 2.                                                                                                                                      | <input 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 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 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 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 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 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 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 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 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><i>Drains</i></b>                                                                                                                                                                                                                                                                                  |                                                          |
| 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 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 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 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 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 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 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.                                                                                                                                              | Chromium-based water treatment chemicals have been used on or after September 8, 1994.                                                                                                                                                                                      | <input type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 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 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 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 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 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 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 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 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 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 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 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>Drains (continued)</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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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                                                                          |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)</b>                                                                                                                                                                                                       |                                                          |
| 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |
| 2. The application area includes containers using Container Level 1 controls.                                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |
| 3. The application area includes containers using Container Level 2 controls.                                                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No                                         |

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◆ For GOP applications, answer ONLY these questions unless otherwise directed.

|                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |
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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>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 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 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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| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                                                                     |                                                          |
| <b>W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)</b>                                                                                |                                                          |
| 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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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)</b>                                                     |                                                          |
| <b>W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)</b>                                |                                                          |
| 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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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No            |

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◆ 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)           |                                                                                                                                                                                                                                                                                            |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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.

- |                                                                                                                                                                                                                                                        |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|

##### CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation

- |                                                                                                                                                                     |                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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- |                                                                                                                                                           |                                                          |
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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 type="checkbox"/> Yes <input type="checkbox"/> No |
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- |                                                                                                                                                                                            |                                                          |
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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 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 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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- |                                                                                                                                           |                                                          |
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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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# Application Area-Wide Applicability Determinations and General Information

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#### VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

##### CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)

|     |                                                                                                                                                                                                                                                                                           |                                                          |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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 YYYYYY - 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 BBBBBB - 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.                                                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.                                                                                                                                       | <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)                                          |                                                                                                                                                                                                                                                                         |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Yes <input 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 checked="" 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.                                                                                                                                                                                                                             |                                                                     |

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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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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.                                                                                                                                                                         |                                                                                                  |
| <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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

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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>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 type="checkbox"/> Yes <input checked="" 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 checked="" 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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 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 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 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 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 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 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 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 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 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 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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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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For SOP applications, answer ALL questions unless otherwise directed.

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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): |
|------------|---------------|---------------|------------|---------------|---------------|
|            |               |               |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |
|            |               |               |            |               |               |

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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For SOP applications, answer ALL questions unless otherwise directed.

- ◆ For GOP applications, answer ONLY these questions unless otherwise directed.

**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 |
|-------------------|---------------|-------------------|---------------|-------------------|---------------|
| 156483            | 04/16/2019    |                   |               |                   |               |
|                   |               |                   |               |                   |               |
|                   |               |                   |               |                   |               |
|                   |               |                   |               |                   |               |

- ◆ **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 |
|---------|------------------|---------|------------------|---------|------------------|
| 106.511 | 09/04/2000       |         |                  |         |                  |
| 106.478 | 09/04/2000       |         |                  |         |                  |
| 106.263 | 11/01/2001       |         |                  |         |                  |
|         |                  |         |                  |         |                  |
|         |                  |         |                  |         |                  |
|         |                  |         |                  |         |                  |
|         |                  |         |                  |         |                  |
|         |                  |         |                  |         |                  |

- ◆ **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 |
|------------|---------------|------------|---------------|------------|---------------|
|            |               |            |               |            |               |
|            |               |            |               |            |               |
|            |               |            |               |            |               |
|            |               |            |               |            |               |

**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 |
|------------|---------------|-------------------------|
| 08/14/2025 | O4253         | RN106655947             |

| Unit ID No. | Registration No. | PBR No. | Registration Date |
|-------------|------------------|---------|-------------------|
| N/A         | N/A              | N/A     | N/A               |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |
|             |                  |         |                   |

**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 | Regulated Entity Number |
|------------|---------------|-------------------------|
| 08/14/2025 | O4253         | RN106655947             |

| Unit ID No. | PBR No. | Version No./Date |
|-------------|---------|------------------|
| FWPUMP2     | 106.511 | 9/4/2000         |
| SUMP1       | 106.478 | 9/4/2000         |
| SUMP2       | 106.478 | 9/4/2000         |
| MSS         | 106.263 | 11/1/2001        |
|             |         |                  |
|             |         |                  |
|             |         |                  |
|             |         |                  |
|             |         |                  |
|             |         |                  |

**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 | Regulated Entity Number |
|------------|---------------|-------------------------|
| 08/14/2025 | O4253         | RN106655947             |

| PBR No. | Version No./Date |
|---------|------------------|
| N/A     |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |
|         |                  |

**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 |
|------------|---------------|-------------------------|
| 08/14/2025 | O4253         | RN106655947             |

| Unit ID No. | PBR No. | Version No./Date Or Registration No. | Monitoring Requirement                                                            |
|-------------|---------|--------------------------------------|-----------------------------------------------------------------------------------|
| FWPUMP2     | 106.511 | 9/4/2000                             | Records of annual operating hours and calculated annual emissions.                |
| SUMP1       | 106.478 | 9/4/2000                             | Records of liquids stored, true vapor pressure, and calculated emissions.         |
| SUMP2       | 106.478 | 9/4/2000                             | Records of liquids stored, true vapor pressure, and calculated emissions.         |
| MSS         | 106.263 | 11/1/2001                            | Records of planned activities with details required in §106.263(g) and emissions. |
|             |         |                                      |                                                                                   |
|             |         |                                      |                                                                                   |
|             |         |                                      |                                                                                   |
|             |         |                                      |                                                                                   |
|             |         |                                      |                                                                                   |
|             |         |                                      |                                                                                   |

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

|                                                                                                                                                                                                                                                                            |                     |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|
| <b>I. Identifying Information</b>                                                                                                                                                                                                                                          |                     |                 |
| Account No.: NA                                                                                                                                                                                                                                                            | RN No.: RN106655947 | CN: CN605011642 |
| Permit No.: 04253                                                                                                                                                                                                                                                          | Project No.: 31197  |                 |
| Area Name: Houston Tank Terminal                                                                                                                                                                                                                                           |                     |                 |
| Company Name: South Bow Terminals LLC                                                                                                                                                                                                                                      |                     |                 |
| <b>II. Unit/Emission Point/Group/Process Information</b>                                                                                                                                                                                                                   |                     |                 |
| Revision No.:                                                                                                                                                                                                                                                              |                     |                 |
| Unit/EPN/Group/Process ID No.: GRPSUMP                                                                                                                                                                                                                                     |                     |                 |
| Applicable Form: OP-UA3                                                                                                                                                                                                                                                    |                     |                 |
| <b>III. Applicable Regulatory Requirement</b>                                                                                                                                                                                                                              |                     |                 |
| Name: 30 TAC 115 Storage of VOCs                                                                                                                                                                                                                                           |                     |                 |
| SOP/GOP Index No.: R5112-1                                                                                                                                                                                                                                                 |                     |                 |
| Pollutant: VOC                                                                                                                                                                                                                                                             |                     |                 |
| Main Standard: §115.112(e)(1)                                                                                                                                                                                                                                              |                     |                 |
| <b>IV. Title V Monitoring Information</b>                                                                                                                                                                                                                                  |                     |                 |
| Monitoring Type: PM                                                                                                                                                                                                                                                        |                     |                 |
| Unit Size:                                                                                                                                                                                                                                                                 |                     |                 |
| CAM/PM Option No.: PM-V-060                                                                                                                                                                                                                                                |                     |                 |
| Deviation Limit: Upon installation of submerged fill piping in either or both sump tanks, it shall be considered a deviation if records are not maintained demonstrating compliance with the submerged fill installation.                                                  |                     |                 |
| CAM/PM Option No.: PM-V-061                                                                                                                                                                                                                                                |                     |                 |
| Deviation Limit: After installation of submerged fill piping; any time either sump is emptied, and degassed, it shall be considered a deviation if submerged fill piping is not verified to be as represented in records and repairs are not completed prior to refilling. |                     |                 |
| <b>V. Control Device Information</b>                                                                                                                                                                                                                                       |                     |                 |
| Control Device ID No.:                                                                                                                                                                                                                                                     |                     |                 |
| Control Device Type:                                                                                                                                                                                                                                                       |                     |                 |



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

**I. Identifying Information**

Account Number: NA

Regulated Entity Number: RN 106655947

Customer Reference Number: CN 605011642

Permit Number: O4253

Area Name: Houston Tank Terminal

Company Name: South Bow Terminals. LLC

**II. Duly Authorized Representative Information**

Action Type:

☒ New DAR Identification

☐ Administrative Information Change

Conventional Title:

☒ Mr.

☐ Mrs.

☐ Ms.

☐ Dr.

Name (Driver License/STEERS): Robert M. Baumgartner

Title: Manager Environmental Services

Delegation Effective Date: 8/14/25

Telephone Number: 402-960-0483

Fax Number:

Company Name: South Bow (USA)

Mailing Address: 920 Memorial City Way, Suite 800

City: Houston

State: Texas

ZIP Code: 77024

Email Address: robert.baumgartner@southbow.com

**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, Gary Salsman

(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: 9/4/25

Duly Authorized Representative Signature: Robert Baumgartner

Digitally signed by Robert Baumgartner  
Date: 2025.08.20 08:29:37 -05'00'

(Name(s) printed or typed) Robert M. Baumgartner

Date: 8/20/25

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

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

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

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

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

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

**Texas Commission on Environmental Quality**  
**Form OP-ACPS**  
**Application Compliance Plan and Schedule**

|                                              |                                          |                                         |
|----------------------------------------------|------------------------------------------|-----------------------------------------|
| <b>Date:</b> 08/14/2025                      | <b>Regulated Entity No.:</b> RN106655947 | <b>Permit No.:</b> O4253                |
| <b>Company Name:</b> South Bow Terminals LLC |                                          | <b>Area Name:</b> Houston Tank Terminal |

- 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>* For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status.<br/> 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.</p> <p>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.</p> |                                                                     |

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

|                                                                                                                                                                                                  |                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Date: 8/14/2025                                                                                                                                                                                  |                                                                     |
| Permit No.: O4253                                                                                                                                                                                |                                                                     |
| Regulated Entity No.: RN106655947                                                                                                                                                                |                                                                     |
| Company Name: South Bow Terminals LLC                                                                                                                                                            |                                                                     |
| 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 checked="" 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.

Note: The site has no significant revisions. South Bow is requesting removal of tanks 5 through 22 (BO-TK-05 to BO-TK-22) from the current permit as they are not constructed. South Bow would like to keep the same emissions cap established for storage tanks during the initial FOP issuance. The pipeline throughput remains unchanged even though only four (4) storage tanks have been constructed. Leaving the emissions cap unchanged allows for future expansion and operational flexibility to respond to market changes and customer demands.

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

|                                       |
|---------------------------------------|
| Date: 8/14/2025                       |
| Permit No.: O4253                     |
| Regulated Entity No.: RN106655947     |
| Company Name: South Bow Terminals LLC |

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 Form |                      |                                                                                                                                                         |
| 1            | MS-C          | No       | GRPTNK<br>(Remove BO-<br>TK-05 to BO-<br>TK-22) | OP-UA3          | 156483               | BO-TK-05 to BO-TK-22 have not been<br>constructed. Request to remove tanks BO-TK-05<br>to BO-TK-22 from the permit as part of permit<br>renewal action. |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |
|              |               |          |                                                 |                 |                      |                                                                                                                                                         |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 3  
Texas Commission on Environmental Quality**

|                                                                                                                                                                                       |                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date: 8/14/2025                                                                                                                                                                       |                                                                                                                                                                                         |
| Permit No.: O4253                                                                                                                                                                     |                                                                                                                                                                                         |
| Regulated Entity No.: RN106655947                                                                                                                                                     |                                                                                                                                                                                         |
| Company Name: South Bow Terminals LLC                                                                                                                                                 |                                                                                                                                                                                         |
| <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 type="checkbox"/> YES <input type="checkbox"/> NO</span>                 |
| B.                                                                                                                                                                                    | Indicate the alternate language(s) in which public notice is required:                                                                                                                  |
| 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 type="checkbox"/> NO</span> |

**Federal Operating Permit Program  
Application for Permit Revision/Renewal  
Form OP-2-Table 3  
Texas Commission on Environmental Quality**

Using the table below, indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:

| Pollutant | Description of the Change in Pollutant Emissions |
|-----------|--------------------------------------------------|
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |
|           |                                                  |



August 14, 2025

Texas Commission on Environmental Quality  
Air Permit Initial Review Team (APRT), MC 161  
12100 Park 35 Circle  
Building C, Third Floor  
Austin, TX 78753

**via STEERS**

Subject: Federal Operating Permit (Title V) Renewal Application  
South Bow Terminals LLC  
Houston Tank Terminal  
Harris County, Texas  
Customer Reference No.: CN605011642

Dear Permit Engineer:

South Bow Terminals LLC (South Bow) is submitting the enclosed application to renew the Federal Operating Permit (FOP) number O4253. The permit will expire on April 8, 2026. Twenty-two (22) storage tanks are currently authorized via Non-Rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities (Permit No: 156483). However, only four (4) storage tanks have been constructed. South Bow is requesting removal of tanks 5 through 22 (BO-TK-05 to BO-TK-22) from the FOP; however, keep the same emissions cap established for storage tanks during the initial FOP issuance. The pipeline throughput remains unchanged even though only four (4) storage tanks have been constructed. Leaving the emissions cap unchanged allows for future expansion and operational flexibility to respond to market changes and customer demands.

The renewal application submittal consists of the following:

1. Application text including Process Description
2. Process Flow Diagram
3. Plot Plan
4. Emission Calculations
5. Application Forms
  - a. OP-1 (Site Information Summary)
  - b. OP-2 (Application for Permit Revision/Renewal)
  - c. OP-ACPS (Application Compliance Plan and Schedule)
  - d. OP-REQ 1 (Application Area-Wide Applicability Determinations and General Information)
  - e. OP-REQ 2 (Negative Applicable Requirement Determinations)
  - f. OP-REQ 3 (Applicable Requirements Summary)
  - g. OP-PBRSUP (Permits by Rule Supplemental Table)
  - h. OP-SUMR (Individual Unit Summary for Revisions)
  - i. OP-MON (Monitoring Requirements)
  - j. OP-UA (Unit Attribute) Forms

If you have any questions regarding the submittal, please contact me by phone at (346) 809-0415 or via email at [gary.mcdonald@southbow.com](mailto:gary.mcdonald@southbow.com).

Sincerely,

A handwritten signature in black ink, appearing to read "G McDonald". The signature is stylized with a large, looped "G" and a cursive "McDonald".

Gary McDonald  
Environmental Specialist  
South Bow Terminals, LLC  
1113 N Little Ave  
Cushing, OK 74023  
Office: 346.809.0415  
Cell: 346.324.1838

## Texas Commission on Environmental Quality

Title V Existing

4253

### Site Information (Regulated Entity)

|                                                                         |                                                                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| What is the name of the permit area to be authorized?                   | HOUSTON TANK TERMINAL                                                                                       |
| Does the site have a physical address?                                  | Yes                                                                                                         |
| Physical Address                                                        |                                                                                                             |
| Number and Street                                                       | 7101 MILLER ROAD 2                                                                                          |
| City                                                                    | HOUSTON                                                                                                     |
| State                                                                   | TX                                                                                                          |
| ZIP                                                                     | 77049                                                                                                       |
| County                                                                  | HARRIS                                                                                                      |
| Latitude (N) (##.#####)                                                 | 29.826388                                                                                                   |
| Longitude (W) (-###.#####)                                              | 95.143055                                                                                                   |
| Primary SIC Code                                                        | 0                                                                                                           |
| Secondary SIC Code                                                      |                                                                                                             |
| Primary NAICS Code                                                      | 424710                                                                                                      |
| Secondary NAICS Code                                                    |                                                                                                             |
| Regulated Entity Site Information                                       |                                                                                                             |
| What is the Regulated Entity's Number (RN)?                             | RN106655947                                                                                                 |
| What is the name of the Regulated Entity (RE)?                          | HOUSTON TANK TERMINAL                                                                                       |
| Does the RE site have a physical address?                               | No                                                                                                          |
| Because there is no physical address, describe how to locate this site: | 7101 MILLER RD 2 POSITIONED AT THE N SIDE OF MOORE RD W OF THE CORNER OF THE INTX OF MOORE RD AND MILLER RD |
| City                                                                    | HOUSTON                                                                                                     |
| State                                                                   | TX                                                                                                          |
| ZIP                                                                     | 77049                                                                                                       |
| County                                                                  | HARRIS                                                                                                      |
| Latitude (N) (##.#####)                                                 | 29.825                                                                                                      |
| Longitude (W) (-###.#####)                                              | -95.1502                                                                                                    |
| Facility NAICS Code                                                     |                                                                                                             |
| What is the primary business of this entity?                            | CRUDE OIL TERMINAL                                                                                          |

### Customer (Applicant) Information

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| How is this applicant associated with this site? | Owner Operator          |
| What is the applicant's Customer Number (CN)?    | CN605011642             |
| Type of Customer                                 | Corporation             |
| Full legal name of the applicant:                |                         |
| Legal Name                                       | South Bow Terminals Llc |
| Texas SOS Filing Number                          | 801850745               |
| Federal Tax ID                                   |                         |
| State Franchise Tax ID                           | 32051981770             |

|                                   |      |
|-----------------------------------|------|
| State Sales Tax ID                |      |
| Local Tax ID                      |      |
| DUNS Number                       |      |
| Number of Employees               | 0-20 |
| Independently Owned and Operated? | No   |

## Responsible Official Contact

Person TCEQ should contact for questions about this application:

|                                                              |                                       |
|--------------------------------------------------------------|---------------------------------------|
| Organization Name                                            | South Bow Terminals LLC               |
| Prefix                                                       | MR                                    |
| First                                                        | Gary                                  |
| Middle                                                       |                                       |
| Last                                                         | Salsman                               |
| Suffix                                                       |                                       |
| Credentials                                                  |                                       |
| Title                                                        | Vice-President, Safety and Operations |
| Enter new address or copy one from list:                     |                                       |
| Mailing Address                                              |                                       |
| Address Type                                                 | Domestic                              |
| Mailing Address (include Suite or Bldg. here, if applicable) | 920 MEMORIAL CITY WAY STE 800         |
| Routing (such as Mail Code, Dept., or Attn:)                 |                                       |
| City                                                         | HOUSTON                               |
| State                                                        | TX                                    |
| ZIP                                                          | 77024                                 |
| Phone (###-###-####)                                         | 3468025911                            |
| Extension                                                    |                                       |
| Alternate Phone (###-###-####)                               |                                       |
| Fax (###-###-####)                                           |                                       |
| E-mail                                                       | gary.salsman@southbow.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                       | South Bow Terminals LLC              |
| Prefix                                  | MR                                   |
| First                                   | Robert                               |
| Middle                                  |                                      |
| Last                                    | Baumgartner                          |
| Suffix                                  |                                      |
| Credentials                             |                                      |
| Title                                   | Manager Environmental Services       |
| Enter new address or copy one from list | Responsible Official Contact Address |
| Mailing Address                         |                                      |
| Address Type                            | Domestic                             |

Mailing Address (include Suite or Bldg. here, if applicable)

920 MEMORIAL CITY WAY STE 800

Routing (such as Mail Code, Dept., or Attn:)

City

HOUSTON

State

TX

Zip

77024

Phone (###-###-####)

4029600483

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

robert.baumgartner@southbow.com

## Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.

New Contact

Organization Name

South Bow Terminals LLC

Prefix

MR

First

Gary

Middle

Last

McDonald

Suffix

Credentials

Title

Environmental Specialist

Enter new address or copy one from list:

Duly Authorized Representative Contact Address

Mailing Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

1113 N LITTLE AVE

Routing (such as Mail Code, Dept., or Attn:)

City

CUSHING

State

OK

ZIP

74023

Phone (###-###-####)

3463241838

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

gary.mcdonald@southbow.com

## Title V General Information - Existing

1) Permit Type:

SOP

2) Permit Latitude Coordinate:

29 Deg 49 Min 35 Sec

3) Permit Longitude Coordinate:

95 Deg 8 Min 35 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 through permit conversion?    | No                             |
| 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=275837>OP_1_Form OP-1 (10002)_Updated_081425.pdf</a> |
| Hash      | A373FACB76ABE458A3E22A537E9E95FFCFC93C964ABB773BA5D34514FDE3781E                                 |
| MIME-Type | application/pdf                                                                                  |

### Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275845>OP_2_Form OP-2 (10059)_Updated_081425.pdf</a> |
| Hash      | 6CD268BE035729755E8507493464CF25F3B49A81A58717D2CB14D10775CF4C4A                                 |
| MIME-Type | application/pdf                                                                                  |

### Attach OP-ACPS (Application Compliance Plan and Schedule)

[File Properties]

|           |                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275846>OP_ACPS_Form OP-ACPS (10100)_Updated_081425.pdf</a> |
| Hash      | FDA696C23DAF42A1F9B2C2875EC9467646CAC204DA3312C323B1B101217CB81B                                       |
| 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=275847>OP_REQ1_Form OP-REQ1 (10043tbl)_Updated_081425.pdf</a> |
| Hash      | 92AAFCF4E3819C6A0440CC5FAF707F3DA8C8ECFDBB71580AA995AA04F3288898                                          |
| MIME-Type | application/pdf                                                                                           |

### Attach OP-REQ2 (Negative Applicable Requirement Determinations)

[File Properties]

|           |                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275848>OP_REQ2_Form OP-REQ2 (10017)_Updated_081425.pdf</a> |
| Hash      | 822252BAB5283E76B728622346FC26C21DA9EE327CB6F4FCAADF68AE729ECF7A                                       |
| MIME-Type | application/pdf                                                                                        |

### Attach OP-REQ3 (Applicable Requirements Summary)

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275849>OP\_REQ3\_Form OP-REQ3 (10008tbl)\_Updated\_081425.pdf</a>

Hash A81692D2B12E538DAB298294E494BD8CED8CC51F0818D69F0A090402A8A0ACE5

MIME-Type application/pdf

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275850>OP\_PBRSUP\_Form OP-PBRSUP (20875)\_Updated\_081425.pdf</a>

Hash 3ECA60B1DBD29E6A786D59878BA1BE11DAF25B7B114AA91DF136269C0FD0ED9D

MIME-Type application/pdf

Attach OP-SUMR (Individual Unit Summary for Revisions)

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275852>OP\_SUMR\_Form OP-SUMR (10344)\_Updated\_081425.pdf</a>

Hash 01DA83633AF9DB354BDD56A4804B3D3F60EEB087CA77F6FC7BA5C38A28E30B77

MIME-Type application/pdf

Attach OP-MON (Monitoring Requirements)

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275853>OP\_MON\_Form OP-MON (10421).pdf</a>

Hash CAE163843AE106C500E1315EAA0F1F6111BDF4B128A7C4A4D61A257528805045

MIME-Type application/pdf

Attach OP-UA (Unit Attribute) Forms

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275618>Form OP-UA12 (10045tbl)\_Updated\_081425.pdf</a>

Hash 4A5C3F5BA9EA6E2F7B3328891EB7391ED63F3474BB403FB0E26880503201F014

MIME-Type application/pdf

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275616>Form OP-UA2 (10018)\_Updated\_081425.pdf</a>

Hash C084EDDADCDB53573B605C6DF8D45334F07FC8672CE42E237C3ABEC7816A720D

MIME-Type application/pdf

[File Properties]

File Name <a href=/ePermitsExternal/faces/file?fileId=275617>Form OP-UA3 (10008tbl)\_Updated\_081425.pdf</a>

Hash 83E2DBD0ECF314D1A79016655B607CC33BFA93DE3E5482479D95DF4E7D523E93

MIME-Type application/pdf

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

[File Properties]

|           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=280919>OP_DEL_Form OP-DEL_Signed.pdf</a> |
| Hash      | C39831F1C9F2A450ADABFB91A1A2A6FCDD1B941E88317BF74B21B83A9238A662                     |
| MIME-Type | application/pdf                                                                      |

Attach any other necessary information needed to complete the permit.

[File Properties]

|           |                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275855>Air_TitleV_Renewal_Cover_Letter_0814 2025_SIGNED.pdf</a> |
| Hash      | 688CAED57D37A946AD4CC4DD95B3CDE5146B10CB4FA46C2C16B78D19EDC30AC3                                            |
| MIME-Type | application/pdf                                                                                             |

[File Properties]

|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275675>App A - Area Map PFD and Plot Plan.pdf</a> |
| Hash      | D70A343B3B02320F3A5F296AAC6375991BCD9439B72A109575C0A10FA62A68F7                              |
| MIME-Type | application/pdf                                                                               |

[File Properties]

|           |                                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275676>App C TC emission calculations-Routine Emission Calculations_08142025.pdf</a> |
| Hash      | 1A0E0C472A2F697C9D5D1999B51D8A8461C03BDBFA77F0B011F4B760617E31DDF                                                                |
| MIME-Type | application/pdf                                                                                                                  |

[File Properties]

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275677>App D TC emission calculations-MSS Activities Calculations_08142025.pdf</a> |
| Hash      | 7FDEF649B0FFEE7C4E693793561B735878D092532304938E2469F1DFD6E91C27                                                               |
| MIME-Type | application/pdf                                                                                                                |

[File Properties]

|           |                                                                                  |
|-----------|----------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275859>Table 1-1 1-2 and 1-3.pdf</a> |
| Hash      | 4EF0254629E00DAB991B03389B2DAF2E9F2CEE8C91928B772CB361F95E995C21                 |
| MIME-Type | application/pdf                                                                  |

An additional space to attach any other necessary information needed to complete the permit.

[File Properties]

|           |                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| File Name | <a href=/ePermitsExternal/faces/file?fileId=275856>Southbow_Title_V_Renewal_ApplicationText_ProcessDescription_081225.pdf</a> |
| Hash      | E36AAA0712B683A639176F5F50AF0A719C5CC8503073EB186ECC567D213DEB06                                                              |
| MIME-Type | application/pdf                                                                                                               |

## 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 Robert M Baumgartner, the owner of the STEERS account ER116040.
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 4253.
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: Robert M Baumgartner OWNER OPERATOR

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| Account Number:                      | ER116040                                                         |
| Signature IP Address:                | 50.148.21.18                                                     |
| Signature Date:                      | 2025-09-09                                                       |
| Signature Hash:                      | 2375F802517313B295BEC9056662F15C5523C898BF0B6401FFEAD6C03E380B06 |
| Form Hash Code at time of Signature: | 08B92096FA923519ED61926E23700C9F1E337B5844DAA97B9AFCE9871AED5A4C |

## Submission

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Reference Number:    | The application reference number is 779878                     |
| Submitted by:        | The application was submitted by ER116040/Robert M Baumgartner |
| Submitted Timestamp: | The application was submitted on 2025-09-09 at 09:18:07 CDT    |
| Submitted From:      | The application was submitted from IP address 50.148.21.18     |
| Confirmation Number: | The confirmation number is 676907                              |
| Steers Version:      | The STEERS version is 6.92                                     |
| Permit Number:       | The permit number is 4253                                      |

## Additional Information

Application Creator: This account was created by Sneha Raghavan

## **Appendix D**

### **MSS EMISSION CALCULATIONS DETAILS**

Confidential

*Any requests for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC-197, P.O. Box 13087, Austin, Texas 78711-3087.*

**Table D-1**  
**Maintenance, Startup and Shutdown Emissions Summary**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| Equipment Type           | Activity Description                                | EPN | Emission Rate |             |                 |             |             |             |                 |             |                                        |             |                  |             |
|--------------------------|-----------------------------------------------------|-----|---------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|----------------------------------------|-------------|------------------|-------------|
|                          |                                                     |     | VOC           |             | NO <sub>x</sub> |             | CO          |             | SO <sub>2</sub> |             | PM/PM <sub>10</sub> /PM <sub>2.5</sub> |             | H <sub>2</sub> S |             |
|                          |                                                     |     | lbs/hr        | tpy         | lbs/hr          | tpy         | lbs/hr      | tpy         | lbs/hr          | tpy         | lbs/hr                                 | tpy         | lbs/hr           | tpy         |
| IFR Storage Tanks        | Roof landings > 0.5 psia products                   | MSS | 1.36          | 0.04        | 3.52            | 0.11        | 6.60        | 0.20        | 2.89            | 0.21        | 0.33                                   | 0.01        | 0.03             | 2.19E-03    |
| IFR Storage Tanks        | Venting to atmosphere post control                  | MSS | 13.33         | 0.27        | -               | -           | -           | -           | -               | -           | -                                      | -           | 0.07             | 1.38E-03    |
| Misc. Piping Components  | Equipment venting/degassing and refilling emissions | MSS | 0.16          | 0.00        | 1.29            | 0.33        | 1.72        | 0.44        | 0.79            | 3.84        | 0.06                                   | 0.02        | 0.00             | 0.00        |
| Misc. Piping Components  | Equipment liquid draining emissions                 | MSS | 67.59         | 3.65        | -               | -           | -           | -           | -               | -           | -                                      | -           | 0.35             | 1.88E-02    |
| Air Mover & Vacuum Mover | Air Mover & Vacuum Mover                            | MSS | 0.20          | 0.01        | 1.07            | 0.32        | 1.43        | 0.42        | 0.99            | 0.03        | 0.05                                   | 0.02        | 0.00             | 0.00        |
| <b>Totals</b>            |                                                     | MSS | <b>67.59</b>  | <b>3.97</b> | <b>3.52</b>     | <b>0.76</b> | <b>6.60</b> | <b>1.07</b> | <b>2.89</b>     | <b>4.07</b> | <b>0.33</b>                            | <b>0.04</b> | <b>0.35</b>      | <b>0.03</b> |

**Notes:**

1. The MSS emission calculations included in this permit application are for cap calculation purposes only. These emission calculations are not to be considered enforceable representations as to the magnitude, duration, and/or frequency of individual activities.

**Table D-2**  
**MSS Activities: Annual Tank Landing Emissions**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| Constants                           |                            |         |  |
|-------------------------------------|----------------------------|---------|--|
| Atmospheric Pressure                | psia                       | 14.65   |  |
| Max Daily Ambient Temperature       | deg F                      | 93.10   |  |
| Min Daily Ambient Temperature       | deg F                      | 75.10   |  |
| Daily Total Solar Insulation Factor | Btu/(ft <sup>2</sup> *day) | 1930.00 |  |
| Daily Average Ambient Temperature   | deg R                      | 543.77  |  |

| Tank Data                                       |                        |              |              |              |              |
|-------------------------------------------------|------------------------|--------------|--------------|--------------|--------------|
| Parameter                                       |                        | BO-TK-01     | BO-TK-02     | BO-TK-03     | BO-TK-04     |
| Number of Tanks                                 |                        | 1            | 1            | 1            | 1            |
| Material                                        |                        | Crude (RVP?) | Crude (RVP?) | Crude (RVP?) | Crude (RVP?) |
| Crude Oil Service?                              |                        | Y            | Y            | Y            | Y            |
| Shell Gageage                                   | bb/1000ft <sup>2</sup> | 0.60         | 0.60         | 0.60         | 0.60         |
| Tank Type                                       |                        | IFR          | IFR          | IFR          | IFR          |
| Diameter                                        | ft                     | 215          | 215          | 215          | 215          |
| Landings per Year                               | 1                      | 1            | 1            | 1            | 1            |
| High Roof Leg Height                            | ft                     | 6.0          | 6.0          | 6.0          | 6.0          |
| Number of Days Roof Off-Float                   | days                   | 3            | 3            | 3            | 3            |
| Liquid Heel                                     |                        | Drain        | Drain        | Drain        | Drain        |
| Height of Liquid Heel                           | ft                     | 0.001        | 0.001        | 0.001        | 0.001        |
| Filling Pump-In Rate                            | bb/hr                  | 7.680        | 7.680        | 7.680        | 7.680        |
| Max Liquid H <sub>2</sub> S Concentration       | ppmw                   | 50           | 50           | 50           | 50           |
| Max Vapor H <sub>2</sub> S Concentration        | ppmw                   | 5.159        | 5.159        | 5.159        | 5.159        |
| Vapor Pressure Method                           |                        | RVP          | RVP          | RVP          | RVP          |
| Reid Vapor Pressure                             | psi                    | 7.00         | 7.00         | 7.00         | 7.00         |
| ASTM Slope                                      | * F/vol %              | -            | -            | -            | -            |
| Vapor Pressure Equation Constant A              | dim                    | 10.94        | 10.94        | 10.94        | 10.94        |
| Vapor Pressure Equation Constant B              | * R or * C             | 4.895        | 4.895        | 4.895        | 4.895        |
| Vapor Pressure Equation Constant C              | * C                    | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 40°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 50°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 60°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 70°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 80°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 90°F                           | psia                   | NA           | NA           | NA           | NA           |
| Vapor Pressure @ 100°F                          | psia                   | NA           | NA           | NA           | NA           |
| Vapor Molecular Wt.                             | lb/lbmole              | 50           | 50           | 50           | 50           |
| Stock Liquid Density                            | lb/gal                 | 7.1          | 7.1          | 7.1          | 7.1          |
| Heat Value                                      | Btu/lb                 | 20,000       | 20,000       | 20,000       | 20,000       |
| Height of Vapor Space                           | ft                     | 6.0          | 6.0          | 6.0          | 6.0          |
| Volume of Vapor Space                           | m <sup>3</sup>         | 217.794      | 217.794      | 217.794      | 217.794      |
| Paint Color                                     |                        | White        | White        | White        | White        |
| Paint Solar Absorptance                         |                        | 0.17         | 0.17         | 0.17         | 0.17         |
| Daily Vapor Temp. Range                         | deg R                  | 22.15        | 22.15        | 22.15        | 22.15        |
| Liquid Bulk Temperature                         | deg R                  | 543.79       | 543.79       | 543.79       | 543.79       |
| Daily Avg. Liquid Surface Temp.                 | deg R                  | 559.67       | 559.67       | 559.67       | 559.67       |
| Controlled?                                     |                        | Yes          | Yes          | Yes          | Yes          |
| Tank VCU                                        |                        | TKVCU        | TKVCU        | TKVCU        | TKVCU        |
| VCU Control Device Efficiency                   |                        | 99.8%        | 99.8%        | 99.8%        | 99.8%        |
| True Vapor Pressure of Liquid                   | psia                   | 8.95         | 8.95         | 8.95         | 8.95         |
| <b>Standing Idle Losses</b>                     |                        |              |              |              |              |
| Standing Idle Losses Controlled?                |                        | Yes          | Yes          | Yes          | Yes          |
| Vapor Space Expansion Factor                    |                        | 0.31         | 0.31         | 0.31         | 0.31         |
| Standing Idle Saturation Factor                 |                        | 0.15         | 0.15         | 0.15         | 0.15         |
| Vapor Pressure Function                         |                        | 0.23         | 0.23         | 0.23         | 0.23         |
| Not to Exceed Standing Idle Losses              | lb                     | 9.741        | 9.741        | 9.741        | 9.741        |
| Calculated Standing Idle Losses                 | lb                     | 6.495.70     | 6.495.70     | 6.495.70     | 6.495.70     |
| Standing Idle Losses                            | lb                     | 6.495.70     | 6.495.70     | 6.495.70     | 6.495.70     |
| Controlled Standing Idle Losses                 | lb                     | 12.99        | 12.99        | 12.99        | 12.99        |
| Heat Input From Vapor                           | MMBtu/event            | 129.91       | 129.91       | 129.91       | 129.91       |
| Standing Idle H <sub>2</sub> S Emission Rate    | lb/hr                  | 5.41E-04     | 5.41E-04     | 5.41E-04     | 5.41E-04     |
| Standing Idle H <sub>2</sub> S Emission Rate    | tpy                    | 3.25E-06     | 3.25E-06     | 3.25E-06     | 3.25E-06     |
| Standing Idle Emission Rate                     | lb/hr                  | 1.08         | 1.08         | 1.08         | 1.08         |
| Standing Idle Emission Rate                     | tpy                    | 0.006        | 0.0065       | 0.0065       | 0.0065       |
| <b>Controlled Degassing Losses</b>              |                        |              |              |              |              |
| Tank Degassed?                                  |                        | Yes          | Yes          | Yes          | Yes          |
| Degassing Flow Rate                             | scfm                   | 1.500        | 1.500        | 1.500        | 1.500        |
| Degassing Saturation Factor                     |                        | 0.50         | 0.50         | 0.50         | 0.50         |
| VOC Mass Vapor                                  | lb/event               | 8.118        | 8.118        | 8.118        | 8.118        |
| Degas VOC Emissions                             | lb/event               | 16.24        | 16.24        | 16.24        | 16.24        |
| Tank Degassing Duration                         | hr                     | 24.00        | 24.00        | 24.00        | 24.00        |
| Heat Input From Vapor                           | MMBtu/event            | 162.37       | 162.37       | 162.37       | 162.37       |
| Degassing H <sub>2</sub> S Emission Rate        | lb/hr                  | 0.03         | 0.03         | 0.03         | 0.03         |
| Degassing H <sub>2</sub> S Emission Rate        | tpy                    | 0.0004       | 0.0004       | 0.0004       | 0.0004       |
| Degassing Emission Rate                         | lb/hr                  | 0.68         | 0.68         | 0.68         | 0.68         |
| Degassing Emission Rate                         | tpy                    | 0.01         | 0.008        | 0.008        | 0.008        |
| <b>Uncontrolled Venting Losses</b>              |                        |              |              |              |              |
| VOC Venting Concentration                       | ppmv                   | 10.000       | 10.000       | 10.000       | 10.000       |
| Uncontrolled Vented VOC                         | lb/event               | 266.54       | 266.54       | 266.54       | 266.54       |
| Tank Venting Duration                           | hr                     | 12.00        | 12.00        | 12.00        | 12.00        |
| Vented H <sub>2</sub> S Emissions               | lb/hr                  | 0.11         | 0.11         | 0.11         | 0.11         |
| Vented H <sub>2</sub> S Emissions               | tpy                    | 0.0007       | 0.0007       | 0.0007       | 0.0007       |
| Vented VOC Emissions                            | lb/hr                  | 22.21        | 22.21        | 22.21        | 22.21        |
| Vented VOC Emissions                            | tpy                    | 0.13         | 0.13         | 0.13         | 0.13         |
| <b>Uncontrolled Forced Venting Losses</b>       |                        |              |              |              |              |
| VOC Venting Concentration                       | ppmv                   | 2.000        | 2.000        | 2.000        | 2.000        |
| Uncontrolled Vented VOC                         | lb/event               | 53.31        | 53.31        | 53.31        | 53.31        |
| Tank Venting Duration                           | hr                     | 3.00         | 3.00         | 3.00         | 3.00         |
| Vented H <sub>2</sub> S Emissions               | lb/hr                  | 0.09         | 0.09         | 0.09         | 0.09         |
| Vented H <sub>2</sub> S Emissions               | tpy                    | 0.0001       | 0.0001       | 0.0001       | 0.0001       |
| Vented VOC Emissions                            | lb/hr                  | 17.77        | 17.77        | 17.77        | 17.77        |
| Vented VOC Emissions                            | tpy                    | 0.03         | 0.03         | 0.03         | 0.03         |
| <b>Controlled Refilling Losses</b>              |                        |              |              |              |              |
| Saturation Correction Factor                    |                        | —            | —            | —            | —            |
| Csf * S ≥ 0.15                                  |                        | —            | —            | —            | —            |
| Refilling Saturation Factor                     |                        | 0.15         | 0.15         | 0.15         | 0.15         |
| Filling Losses                                  | lb                     | 4.87         | 4.87         | 4.87         | 4.87         |
| Time to Refloat Roof                            | hr                     | 5.05         | 5.05         | 5.05         | 5.05         |
| Heat Input From Vapor                           | MMBtu/event            | 48.71        | 48.71        | 48.71        | 48.71        |
| Refilling H <sub>2</sub> S Emission Rate        | lb/hr                  | 0.05         | 0.05         | 0.05         | 0.05         |
| Refilling H <sub>2</sub> S Emission Rate        | tpy                    | 0.00013      | 0.00013      | 0.00013      | 0.00013      |
| Refilling Emission Rate                         | lb/hr                  | 0.96         | 0.96         | 0.96         | 0.96         |
| Refilling Emission Rate                         | tpy                    | 0.002        | 0.002        | 0.002        | 0.002        |
| <b>Total MSS Emissions</b>                      |                        |              |              |              |              |
| Parameter                                       |                        | BO-TK-01     | BO-TK-02     | BO-TK-03     | BO-TK-04     |
| Tank Fugitive VOC Emission Rates                | lb/hr                  | 17.77        | 17.77        | 17.77        | 17.77        |
|                                                 | tpy                    | 0.16         | 0.16         | 0.16         | 0.16         |
| Tank Controlled VOC Emission Rates              | lb/hr                  | 1.08         | 1.08         | 1.08         | 1.08         |
|                                                 | tpy                    | 0.02         | 0.02         | 0.02         | 0.02         |
| Tank Fugitive H <sub>2</sub> S Emission Rates   | lb/hr                  | 0.09         | 0.09         | 0.09         | 0.09         |
|                                                 | tpy                    | 0.0008       | 0.0008       | 0.0008       | 0.0008       |
| Tank Controlled H <sub>2</sub> S Emission Rates | lb/hr                  | 0.05         | 0.05         | 0.05         | 0.05         |
|                                                 | tpy                    | 0.0005       | 0.0005       | 0.0005       | 0.0005       |
| Heat Input From Vapor                           | MMBtu/hr               | 10.83        | 10.83        | 10.83        | 10.83        |
|                                                 | MMBtu/yr               | 340.99       | 340.99       | 340.99       | 340.99       |

**Table D-3**  
**MSS Activities: Hourly Tank Landing Emissions**

**South Bow Terminals LLC (Houston Tank Terminal)**

| Constants                           |                            |         |  |
|-------------------------------------|----------------------------|---------|--|
| Atmospheric Pressure                | psia                       | 14.65   |  |
| Max Daily Ambient Temperature       | deg F                      | 93.10   |  |
| Min Daily Ambient Temperature       | deg F                      | 75.10   |  |
| Daily Total Solar Insulation Factor | Btu/(ft <sup>2</sup> *day) | 1930.00 |  |
| Daily Average Ambient Temperature   | deg R                      | 543.77  |  |

| Tank Data                                                 |                         |          | BO-TK-01           | BO-TK-02           | BO-TK-03           | BO-TK-04           |
|-----------------------------------------------------------|-------------------------|----------|--------------------|--------------------|--------------------|--------------------|
| Parameter                                                 |                         |          |                    |                    |                    |                    |
| Number of Tanks                                           |                         |          | 1                  | 1                  | 1                  | 1                  |
| Material                                                  |                         |          | Crude (Short-Term) | Crude (Short-Term) | Crude (Short-Term) | Crude (Short-Term) |
| Crude Oil Service?                                        | Y/N                     | Y        | Y                  | Y                  | Y                  | Y                  |
| Shell Clingage                                            | bbt/1000ft <sup>2</sup> | 0.60     | 0.60               | 0.60               | 0.60               | 0.60               |
| Tank Type                                                 |                         | IFR      | IFR                | IFR                | IFR                | IFR                |
| Diameter                                                  | ft                      | 215      | 215                | 215                | 215                | 215                |
| Landings per Year                                         |                         | 1        | 1                  | 1                  | 1                  | 1                  |
| High Roof Leg Height                                      | ft                      | 6.0      | 6.0                | 6.0                | 6.0                | 6.0                |
| Number of Days Roof Off-Float                             | days                    | 3        | 3                  | 3                  | 3                  | 3                  |
| Liquid Heel                                               |                         | Drain    | Drain              | Drain              | Drain              | Drain              |
| Height of Liquid Heel                                     | ft                      | 0.001    | 0.001              | 0.001              | 0.001              | 0.001              |
| Filling Pump-In Rate                                      | bbt/hr                  | 7.680    | 7.680              | 7.680              | 7.680              | 7.680              |
| Max Liquid H <sub>2</sub> S Concentration                 | ppmw                    | 50       | 50                 | 50                 | 50                 | 50                 |
| Max Vapor H <sub>2</sub> S Concentration                  | ppmw                    | 5,159    | 5,159              | 5,159              | 5,159              | 5,159              |
| Vapor Pressure Method                                     |                         | RVP      | RVP                | RVP                | RVP                | RVP                |
| Reid Vapor Pressure                                       | psi                     | 12.00    | 12.00              | 12.00              | 12.00              | 12.00              |
| ASTM Slope                                                | *F/vol %                | -        | -                  | -                  | -                  | -                  |
| Vapor Pressure Equation Constant A                        | dim                     | 10.42    | 10.42              | 10.42              | 10.42              | 10.42              |
| Vapor Pressure Equation Constant B                        | *R or *C                | 4.239    | 4.239              | 4.239              | 4.239              | 4.239              |
| Vapor Pressure Equation Constant C                        | *C                      | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 40°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 50°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 60°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 70°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 80°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 90°F                                     | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 100°F                                    | psia                    | NA       | NA                 | NA                 | NA                 | NA                 |
| Vapor Molecular Wt.                                       | lb/lbmole               | 50       | 50                 | 50                 | 50                 | 50                 |
| Stock Liquid Density                                      | lb/gal                  | 7.1      | 7.1                | 7.1                | 7.1                | 7.1                |
| Heat Value                                                | Btu/lb                  | 20,000   | 20,000             | 20,000             | 20,000             | 20,000             |
| Height of Vapor Space                                     | ft                      | 6.0      | 6.0                | 6.0                | 6.0                | 6.0                |
| Volume of Vapor Space                                     | ft <sup>3</sup>         | 217,794  | 217,794            | 217,794            | 217,794            | 217,794            |
| Paint Color                                               |                         | White    | White              | White              | White              | White              |
| Paint Solar Absorptance                                   |                         | 0.17     | 0.17               | 0.17               | 0.17               | 0.17               |
| Daily Vapor Temp. Range                                   | deg R                   | 22.15    | 22.15              | 22.15              | 22.15              | 22.15              |
| Liquid Bulk Temperature                                   | deg R                   | 543.79   | 543.79             | 543.79             | 543.79             | 543.79             |
| Daily Avg. Liquid Surface Temp.                           | deg R                   | 559.67   | 559.67             | 559.67             | 559.67             | 559.67             |
| Controlled?                                               |                         | Yes      | Yes                | Yes                | Yes                | Yes                |
| Tank VCU                                                  |                         | TKVCU    | TKVCU              | TKVCU              | TKVCU              | TKVCU              |
| VCU Control Device Efficiency                             |                         | 99.9%    | 99.9%              | 99.9%              | 99.9%              | 99.9%              |
| True Vapor Pressure of Liquid                             | psia                    | 11.00    | 11.00              | 11.00              | 11.00              | 11.00              |
| Standing Idle Losses                                      |                         |          |                    |                    |                    |                    |
| Standing Idle Losses Controlled?                          |                         | Yes      | Yes                | Yes                | Yes                | Yes                |
| Vapor Space Expansion Factor                              |                         | 0.49     | 0.49               | 0.49               | 0.49               | 0.49               |
| Standing Idle Saturation Factor                           |                         | 0.15     | 0.15               | 0.15               | 0.15               | 0.15               |
| Vapor Pressure Function                                   |                         | 0.33     | 0.33               | 0.33               | 0.33               | 0.33               |
| Not to Exceed Standing Idle Losses                        | lb                      | 11,967   | 11,967             | 11,967             | 11,967             | 11,967             |
| Calculated Standing Idle Losses                           | lb                      | 6,495.70 | 6,495.70           | 6,495.70           | 6,495.70           | 6,495.70           |
| Standing Idle Losses                                      | lb                      | 6,495.70 | 6,495.70           | 6,495.70           | 6,495.70           | 6,495.70           |
| Controlled Standing Idle Losses                           | lb                      | 12.99    | 12.99              | 12.99              | 12.99              | 12.99              |
| Heat Input From Vapor                                     | MMBtu/event             | 129.91   | 129.91             | 129.91             | 129.91             | 129.91             |
| Standing Idle H <sub>2</sub> S Emission Rate              | lb/hr                   | 5.41E-04 | 5.41E-04           | 5.41E-04           | 5.41E-04           | 5.41E-04           |
| Standing Idle H <sub>2</sub> S Emission Rate              | tpy                     | 3.25E-06 | 3.25E-06           | 3.25E-06           | 3.25E-06           | 3.25E-06           |
| Standing Idle Emission Rate                               | lb/hr                   | 1.08     | 1.08               | 1.08               | 1.08               | 1.08               |
| Standing Idle Emission Rate                               | tpy                     | 0.006    | 0.006              | 0.006              | 0.006              | 0.006              |
| Controlled Degassing Losses                               |                         |          |                    |                    |                    |                    |
| Tank Degasse/P                                            |                         | Yes      | Yes                | Yes                | Yes                | Yes                |
| Degassing Flow Rate                                       | scfm                    | 1,100    | 1,100              | 1,100              | 1,100              | 1,100              |
| Degassing Saturation Factor                               |                         | 0.50     | 0.50               | 0.50               | 0.50               | 0.50               |
| VOC Mass Vapor                                            | lb/event                | 9,973    | 9,973              | 9,973              | 9,973              | 9,973              |
| Degas VOC Emissions                                       | lb/event                | 19.95    | 19.95              | 19.95              | 19.95              | 19.95              |
| Tank Degassing Duration                                   | hr                      | 24.00    | 24.00              | 24.00              | 24.00              | 24.00              |
| Heat Input From Vapor                                     | MMBtu/event             | 199.47   | 199.47             | 199.47             | 199.47             | 199.47             |
| Degassing H <sub>2</sub> S Emission Rate                  | lb/hr                   | 0.04     | 0.04               | 0.04               | 0.04               | 0.04               |
| Degassing H <sub>2</sub> S Emission Rate                  | tpy                     | 0.0005   | 0.0005             | 0.0005             | 0.0005             | 0.0005             |
| Degassing Emission Rate                                   | lb/hr                   | 0.83     | 0.83               | 0.83               | 0.83               | 0.83               |
| Degassing Emission Rate                                   | tpy                     | 0.01     | 0.01               | 0.01               | 0.01               | 0.01               |
| Uncontrolled Venting Losses                               |                         |          |                    |                    |                    |                    |
| VOC Venting Concentration                                 | ppmw                    | 10,000   | 10,000             | 10,000             | 10,000             | 10,000             |
| Uncontrolled Vented VOC                                   | lb/event                | 266.54   | 266.54             | 266.54             | 266.54             | 266.54             |
| Tank Venting Duration                                     | hr                      | 12.00    | 12.00              | 12.00              | 12.00              | 12.00              |
| Vented H <sub>2</sub> S Emissions                         | lb/hr                   | 0.11     | 0.11               | 0.11               | 0.11               | 0.11               |
| Vented H <sub>2</sub> S Emissions                         | tpy                     | 0.0007   | 0.0007             | 0.0007             | 0.0007             | 0.0007             |
| Vented VOC Emissions                                      | lb/hr                   | 22.21    | 22.21              | 22.21              | 22.21              | 22.21              |
| Vented VOC Emissions                                      | tpy                     | 0.13     | 0.13               | 0.13               | 0.13               | 0.13               |
| Uncontrolled Forced Venting Losses                        |                         |          |                    |                    |                    |                    |
| VOC Venting Concentration                                 | ppmw                    | 2,000    | 2,000              | 2,000              | 2,000              | 2,000              |
| Uncontrolled Vented VOC                                   | lb/event                | 53.31    | 53.31              | 53.31              | 53.31              | 53.31              |
| Tank Venting Duration                                     | hr                      | 4.00     | 4.00               | 4.00               | 4.00               | 4.00               |
| Vented H <sub>2</sub> S Emissions                         | lb/hr                   | 0.07     | 0.07               | 0.07               | 0.07               | 0.07               |
| Vented H <sub>2</sub> S Emissions                         | tpy                     | 0.0001   | 0.0001             | 0.0001             | 0.0001             | 0.0001             |
| Vented VOC Emissions                                      | lb/hr                   | 13.33    | 13.33              | 13.33              | 13.33              | 13.33              |
| Vented VOC Emissions                                      | tpy                     | 0.03     | 0.03               | 0.03               | 0.03               | 0.03               |
| Controlled Refilling Losses                               |                         |          |                    |                    |                    |                    |
| Saturation Correction Factor                              |                         | —        | —                  | —                  | —                  | —                  |
| C <sub>sf</sub> * S ≥ 0.15                                |                         | —        | —                  | —                  | —                  | —                  |
| Refilling Saturation Factor                               |                         | 0.15     | 0.15               | 0.15               | 0.15               | 0.15               |
| Filling Losses                                            | lb                      | 5.98     | 5.98               | 5.98               | 5.98               | 5.98               |
| Time to Refloat Roof                                      | hr                      | 5.05     | 5.05               | 5.05               | 5.05               | 5.05               |
| Heat Input From Vapor                                     | MMBtu/event             | 59.84    | 59.84              | 59.84              | 59.84              | 59.84              |
| Refilling H <sub>2</sub> S Emission Rate                  | lb/hr                   | 0.06     | 0.06               | 0.06               | 0.06               | 0.06               |
| Refilling H <sub>2</sub> S Emission Rate                  | tpy                     | 0.00015  | 0.00015            | 0.00015            | 0.00015            | 0.00015            |
| Refilling Emission Rate                                   | lb/hr                   | 1.18     | 1.18               | 1.18               | 1.18               | 1.18               |
| Refilling Emission Rate                                   | tpy                     | 0.003    | 0.003              | 0.003              | 0.003              | 0.003              |
| Total MSS Emissions                                       |                         |          |                    |                    |                    |                    |
| Parameter                                                 |                         | BO-TK-01 | BO-TK-02           | BO-TK-03           | BO-TK-04           |                    |
| Tank Uncontrolled Forced Ventilation VOC Emission Rates   | lb/hr                   | 13.33    | 13.33              | 13.33              | 13.33              |                    |
| Tank Controlled VOC Emission Rates                        | tpy                     | 0.13     | 0.13               | 0.13               | 0.13               |                    |
| Tank Uncontrolled Venting H <sub>2</sub> S Emission Rates | lb/hr                   | 1.18     | 1.18               | 1.18               | 1.18               |                    |
| Tank Controlled Venting H <sub>2</sub> S Emission Rates   | tpy                     | 0.02     | 0.02               | 0.02               | 0.02               |                    |
| Tank Controlled H <sub>2</sub> S Emission Rates           | lb/hr                   | 0.07     | 0.07               | 0.07               | 0.07               |                    |
| Heat Input From Vapor                                     | MMBtu/hr                | 11.85    | 11.85              | 11.85              | 11.85              |                    |

**Table D-4**  
**MSS Activities: Controlled Landings Emissions**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| Parameter                                                  | Units    | Tank VCU  |
|------------------------------------------------------------|----------|-----------|
|                                                            |          | TKVCU     |
| VCU Parameters                                             |          |           |
| Number of Tanks Controlled Simultaneously                  | Tks/hr   | 1         |
| Heat Input from MSS Landings                               | MMBtu/hr | 11.85     |
|                                                            | MMBtu/yr | 681.97    |
| VCU Control Device Efficiency                              | %        | 99.8%     |
| Assist Gas Heating Value                                   | btu/scf  | 1,020     |
| VCU Capacity                                               | MMBtu/hr | 44        |
| Assist Gas Flow                                            | scf/hr   | 31,524    |
|                                                            | scf/yr   | 2,005,806 |
| VCU VOC Emission Factor                                    | lb/MMBtu | 0.0054    |
| VCU NO <sub>x</sub> Emission Factor                        | lb/MMBtu | 0.08      |
| VCU CO Emission Factor                                     | lb/MMBtu | 0.15      |
| VCU SO <sub>2</sub> Emission Factor                        | lb/MMBtu | 0.0006    |
| VCU PM/PM <sub>10</sub> /PM <sub>2.5</sub> Emission Factor | lb/MMBtu | 0.0075    |
| Emissions from MSS Landings                                |          |           |
| Controlled Vapor<br>VOC Emission Rates                     | lb/hr    | 1.18      |
|                                                            | tpy      | 0.03      |
| Assist Gas<br>VOC Emission Rates                           | lb/hr    | 0.17      |
|                                                            | tpy      | 0.01      |
| NO <sub>x</sub> Emission Rates                             | lb/hr    | 3.52      |
|                                                            | tpy      | 0.11      |
| CO Emission Rates                                          | lb/hr    | 6.60      |
|                                                            | tpy      | 0.20      |
| H <sub>2</sub> S Emission Rates                            | lb/hr    | 0.03      |
|                                                            | tpy      | 0.002     |
| SO <sub>2</sub> Emission Rates                             | lb/hr    | 2.89      |
|                                                            | tpy      | 0.21      |
| PM/PM <sub>10</sub> /PM <sub>2.5</sub> Emission Rates      | lb/hr    | 0.33      |
|                                                            | tpy      | 0.01      |

Notes:

1. SO<sub>2</sub>, VOC and PM emission factors obtained from AP-42 Section 1.4.
2. NO<sub>x</sub> and CO emission factors from vendor guarantee.
3. A control efficiency of 99.8% was assumed for H<sub>2</sub>S. SO<sub>2</sub> emissions from controlled vapors assume that 100% of H<sub>2</sub>S present in the fuel is converted to SO<sub>2</sub>.
4. Quantity of the enrichment gas may differ according to the heating value of the inlet gas and should not be considered an enforceable limit.
5. Annual emissions are based on 75% of tanks undergoing MSS annually.

Table D-5

**MSS Activities: Vessels & Piping Maintenance**  
**South Bow Terminals LLC (Houston Tank Terminal)**

**Basis**

- Calculation methods taken from the TCEQ Terminal MSS  
 Calculations spreadsheet available here:  
<http://www.tceq.texas.gov/permitting/air/guidance/newsourcesreview/nsr-chem.html>

- Forced ventilation will not be used.

- Entire event is assumed to occur in one hour for emission estimating purposes.

| Pollutant        | Total Uncontrolled Emission Rates |        |
|------------------|-----------------------------------|--------|
|                  | lb/hr                             | tpy    |
| VOC              | 67.59                             | 3.65   |
| H <sub>2</sub> S | 0.35                              | 0.0188 |

| Equipment Type                                              |                        | Pumps/Piping       | Filter/ Meter/ Valve | Vessels/Piping     |
|-------------------------------------------------------------|------------------------|--------------------|----------------------|--------------------|
| Annual Venting/Draining/Refilling Events                    | events/yr              | 40                 | 40                   | 50                 |
| Short-Term Venting/Draining/Refilling Events                | events/hr              | 2                  | 2                    | 1                  |
| Material                                                    | -                      | Crude (Short-Term) | Crude (Short-Term)   | Crude (Short-Term) |
| Max Liquid H <sub>2</sub> S Concentration                   | ppmw                   | 50                 | 50                   | 50                 |
| Max Vapor H <sub>2</sub> S Concentration                    | ppmw                   | 5,159              | 5,159                | 5,159              |
| Molecular Weight of Vapor                                   | lb/lb-mole             | 50                 | 50                   | 50                 |
| Liquid Density                                              | lb/gal                 | 7.1                | 7.1                  | 7.1                |
| Daily Max Liquid Surface Temp.                              | °R                     | 559.67             | 559.67               | 559.67             |
| Max Assumed Vapor Pressure                                  | psia                   | 11.00              | 11.00                | 11.00              |
| Equipment Length                                            | length (ft)            | 9.00               | 9.00                 | 125.00             |
| Equipment Diameter                                          | diameter (ft)          | 6.00               | 6.00                 | 2.50               |
| Volume                                                      | ft <sup>3</sup> /event | 254.47             | 254.47               | 613.59             |
| Equipment Inner Surface Area                                | ft <sup>2</sup>        | 226.19             | 226.19               | 991.57             |
| <b>Equipment MSS - Liquid Draining</b>                      |                        |                    |                      |                    |
| Vented to Control                                           | Yes/No                 | No                 | No                   | Yes                |
| Equipment Draining Saturation Factor                        | -                      | 1.45               | 1.45                 | 1.45               |
| Equipment Draining Loading Loss                             | lbs/1,000 gals         | 17.75              | 17.75                | 17.75              |
| Total Emissions per Event                                   | lbs/event              | 33.80              | 33.80                | 0.16               |
| Equipment Draining H <sub>2</sub> S Loading Loss            | lbs/hr                 | 0.3487             | 0.3487               | 0.0008             |
| Equipment Draining H <sub>2</sub> S Loading Loss            | tpy                    | 0.003487           | 0.003487             | 0.000021           |
| Equipment Draining VOC Loading Loss                         | lbs/hr                 | 67.59              | 67.59                | 1.63E-01           |
| Equipment Draining VOC Loading Loss                         | tpy                    | 0.6759             | 0.6759               | 4.07E-03           |
| <b>Equipment MSS - Residual Liquid</b>                      |                        |                    |                      |                    |
| Residual Liquid Thickness                                   | ft                     | 0.00003            | 0.00003              | 0.00003            |
| Residual Liquid H <sub>2</sub> S Losses                     | lbs/hr                 | 0.00004            | 0.00004              | 0.00009            |
| Residual Liquid H <sub>2</sub> S Losses                     | tpy                    | 0.0000004          | 0.0000004            | 0.0000022          |
| Residual Liquid VOC Losses                                  | lbs/hr                 | 0.80               | 0.80                 | 1.76E+00           |
| Residual Liquid VOC Losses                                  | tpy                    | 0.008              | 0.008                | 4.39E-02           |
| <b>Equipment MSS - Venting</b>                              |                        |                    |                      |                    |
| Vented to Control                                           | Yes/No                 | No                 | No                   | Yes                |
| Moles                                                       | M./event               | 0.4661             | 0.4661               | 0.0022             |
| Controlled Venting H <sub>2</sub> S Emissions               | lbs/hr                 | 0.2405             | 0.2405               | 0.0006             |
| Controlled Venting H <sub>2</sub> S Emissions               | tpy                    | 0.002405           | 0.002405             | 0.000014           |
| Controlled Venting VOC Emissions                            | lbs/hr                 | 46.61              | 46.61                | 1.12E-01           |
| Controlled Venting VOC Emissions                            | tpy                    | 0.4661             | 0.4661               | 2.81E-03           |
| <b>Equipment MSS - Post Control Venting</b>                 |                        |                    |                      |                    |
| Atmospheric Vented VOC Emissions (10,000 ppm after Control) | lbs/event              | -                  | -                    | 0.75               |
| Venting Duration                                            | hrs                    | -                  | -                    | 1.00               |
| Atmospheric Venting H <sub>2</sub> S Emissions              | lb/hr                  | -                  | -                    | 0.004              |
| Atmospheric Venting H <sub>2</sub> S Emissions              | tpy                    | -                  | -                    | 0.00010            |
| Atmospheric Venting VOC Emissions                           | lb/hr                  | -                  | -                    | 7.51E-01           |
| Atmospheric Venting VOC Emissions                           | tpy                    | -                  | -                    | 1.88E-02           |
| <b>Equipment MSS - Refilling</b>                            |                        |                    |                      |                    |
| Vented to Control                                           | Yes/No                 | No                 | No                   | Yes                |
| Refilling Saturation Factor                                 | -                      | 1.45               | 1.45                 | 1.45               |
| Refilling VOC Loading Loss                                  | lbs/1,000 gals         | 17.75              | 17.75                | 17.75              |
| Refilling VOC Loading Loss                                  | lbs/event              | 33.80              | 33.80                | 0.16               |
| Refilling H <sub>2</sub> S Emissions                        | lb/hr                  | 0.3487             | 0.3487               | 0.00084            |
| Refilling H <sub>2</sub> S Emissions                        | tpy                    | 0.003487           | 0.003487             | 0.000021           |
| Refilling VOC Loading Loss                                  | lbs/hr                 | 67.59              | 67.59                | 1.63E-01           |
| Refilling VOC Loading Loss                                  | tpy                    | 0.6759             | 0.6759               | 4.07E-03           |
| <b>Equipment MSS - Controlled Vapor Emissions Summary</b>   |                        |                    |                      |                    |
| Parameter                                                   |                        | Assist Gas         | Controlled Vapors    | Total              |
| Total Heat Input                                            | MMBtu/hr               | 4.21               | 4.38                 | 8.60               |
|                                                             | MMBtu/yr               | 4,214.51           | 219.17               | 4,433.69           |
| Controlled VOC Emissions                                    | DRE                    | -                  | 99.8%                | -                  |
|                                                             | lb/hr                  | -                  | 0.16                 | 0.16               |
|                                                             | tpy                    | -                  | 0.004                | 0.004              |
| Controlled NO <sub>x</sub> Emissions                        | lb/MMBtu               | 0.15               | 0.15                 | -                  |
|                                                             | lb/hr                  | 0.63               | 0.66                 | 1.29               |
|                                                             | tpy                    | 0.32               | 0.016                | 0.33               |
| Controlled CO Emissions                                     | lb/MMBtu               | 0.20               | 0.20                 | -                  |
|                                                             | lb/hr                  | 0.84               | 0.88                 | 1.72               |
|                                                             | tpy                    | 0.42               | 0.022                | 0.44               |
| Controlled H <sub>2</sub> S Emissions                       | lb/hr                  | -                  | 0.0008409            | 0.001              |
|                                                             | tpy                    | -                  | 0.004                | 0.004              |
| Controlled SO <sub>2</sub> Emissions                        | lb/MMBtu               | 0.0006             | -                    | -                  |
|                                                             | lb/hr                  | 0.002              | 0.791                | 0.794              |
|                                                             | tpy                    | 0.001              | 3.835                | 3.836              |
| Controlled PM <sub>10</sub> /PM <sub>2.5</sub> Emissions    | lb/MMBtu               | 0.0075             | 0.0075               | -                  |
|                                                             | lb/hr                  | 0.03               | 0.03                 | 0.06               |
|                                                             | tpy                    | 0.02               | 0.0008               | 0.02               |

**Table D-6**  
**MSS Activities: Temporary Product Transfer**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| <b>Basis</b>                 |        |          |
|------------------------------|--------|----------|
| Crude (Short-Term) HHV:      | 20,000 | Btu/lb   |
| Max Liquid Temp:             | 100    | °F       |
| Crude (Short-Term) Vapor MW: | 68     | lb/lbmol |
|                              |        |          |
| Crude (Short-Term) Vapor MW: | 11.00  | psia     |
| Hourly Assist Gas Rate:      | 4.09   | MMBtu/hr |
| Annual Assist Gas Rate:      | 4,094  | MMBtu/yr |

| <b>Pollutant</b>                       | <b>Factor</b>   | <b>Emission Rates</b> |            |
|----------------------------------------|-----------------|-----------------------|------------|
|                                        | <b>lb/MMBtu</b> | <b>lb/hr</b>          | <b>tpy</b> |
| VOC                                    | -               | 0.203                 | 0.006      |
| NO <sub>x</sub>                        | 0.15            | 1.07                  | 0.316      |
| CO                                     | 0.2             | 1.43                  | 0.422      |
| PM/PM <sub>10</sub> /PM <sub>2.5</sub> | 0.0075          | 0.05                  | 0.02       |
| H <sub>2</sub> S                       | -               | 0.001                 | 0.000      |
| SO <sub>2</sub>                        | 0.0006          | 0.99                  | 0.031      |

| <b>Product Transfer Scenario</b>           | <b>Material</b>        | <b>H<sub>2</sub>S Vapor Content (ppmw)</b> | <b>Saturation Factor</b> | <b>Control</b> | <b>Loading Loss (lb/Kbbl)</b> | <b>Throughput</b> |               | <b>H<sub>2</sub>S Emission Rates</b> |              | <b>VOC Emission Rates</b> |              |
|--------------------------------------------|------------------------|--------------------------------------------|--------------------------|----------------|-------------------------------|-------------------|---------------|--------------------------------------|--------------|---------------------------|--------------|
|                                            |                        |                                            |                          |                |                               | <b>bbl/hr</b>     | <b>bbl/yr</b> | <b>lb/hr</b>                         | <b>tpy</b>   | <b>lb/hr</b>              | <b>tpy</b>   |
| Frac Tank                                  | Crude Oil (Short-Term) | 5,159                                      | 1.45                     | 99.8%          | 1014.16                       | 50                | 2,000         | 5.23E-04                             | 1.05E-05     | 0.10                      | 0.002        |
| Air Mover & Vacuum Mover - Thermal Control | Crude Oil (Short-Term) | 5,159                                      | 1.45                     | 99.8%          | 1014.16                       | 50                | 2,000         | 1.05E-03                             | 2.09E-05     | 0.20                      | 0.0041       |
|                                            |                        |                                            |                          |                |                               | <b>Total</b>      |               | <b>0.00</b>                          | <b>0.000</b> | <b>0.20</b>               | <b>0.006</b> |

Notes:

1. Emissions calculated based on loading loss equation (Equation 1, AP-42, Section 5.2)
2. If using positive displacement pumps, 1 X loading loss equation is used. If using air blowers, 2 X loading loss equation is used.



## **Appendix C**

### **ROUTINE EMISSION CALCULATION DETAILS**

**Confidential**

*Any requests for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC-197, P.O. Box 13087, Austin, Texas 78711-3087.*

**Table C-1**  
**Floating Roof Tank Emissions**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| Tank Category                             |                  |                            |                                                                                                                                    | BO-TK-01           | BO-TK-02           | BO-TK-03           | BO-TK-04           |
|-------------------------------------------|------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| EPN                                       |                  |                            |                                                                                                                                    | BO-TK-01           | BO-TK-02           | BO-TK-03           | BO-TK-04           |
| Material                                  |                  |                            |                                                                                                                                    | Crude (RVP7)       | Crude (RVP7)       | Crude (RVP7)       | Crude (RVP7)       |
| Material Type                             |                  |                            |                                                                                                                                    | Crude              | Crude              | Crude              | Crude              |
| Diameter                                  | D                | ft                         |                                                                                                                                    | 215                | 215.0              | 215                | 215                |
| Tank Type                                 |                  |                            |                                                                                                                                    | IFR                | IFR                | IFR                | IFR                |
| Tank Nominal Capacity                     |                  | bbl                        |                                                                                                                                    | 300,000            | 300,000            | 300,000            | 300,000            |
| Turnovers per Tank                        | N                |                            |                                                                                                                                    | 612.00             | 612.00             | 612.00             | 612.00             |
| Paint Color                               | -                | -                          |                                                                                                                                    | White              | White              | White              | White              |
| Paint Solar Absorptance                   | $\alpha$         | -                          |                                                                                                                                    | 0.17               | 0.17               | 0.17               | 0.17               |
| Continuous Level Tank                     |                  | (Yes / No)                 |                                                                                                                                    | No                 | No                 | No                 | No                 |
| Maximum Withdrawal Rate                   | Q <sub>max</sub> | bbl/hr                     |                                                                                                                                    | 56,000             | 56,000             | 56,000             | 56,000             |
| Throughput                                | Q                | bbls/yr                    |                                                                                                                                    | 183,600,000        | 183,600,000        | 183,600,000        | 183,600,000        |
| Shell Clingage                            | C                | bbl/1000ft <sup>2</sup>    |                                                                                                                                    | 0.006              | 0.006              | 0.006              | 0.006              |
| No. of Columns                            | N <sub>C</sub>   | -                          |                                                                                                                                    | 19                 | 19                 | 19                 | 19                 |
| Column Diameter                           | F <sub>C</sub>   | ft                         |                                                                                                                                    | 1.1                | 1.1                | 1.1                | 1.1                |
| Deck Fitting Factor                       | F <sub>F</sub>   | lb-mole/yr                 |                                                                                                                                    | 678.65             | 678.65             | 659.99             | 659.99             |
| Deck Construction                         | -                | -                          |                                                                                                                                    | Welded             | Welded             | Welded             | Welded             |
| Deck Seam Loss Factor                     | K <sub>D</sub>   | lb-mole/ft <sup>2</sup> yr |                                                                                                                                    | 0                  | 0                  | 0                  | 0                  |
| Deck Seam Length Factor                   | S <sub>D</sub>   | ft/ft <sup>2</sup>         |                                                                                                                                    | 0                  | 0                  | 0                  | 0                  |
| Product Factor                            | K <sub>C</sub>   | -                          |                                                                                                                                    | 0.4                | 0.4                | 0.4                | 0.4                |
| Tank Rim Seal Factor, K <sub>ra</sub>     | K <sub>ra</sub>  | -                          |                                                                                                                                    | 0.3                | 0.3                | 0.6                | 0.6                |
| Tank Rim Seal Factor, K <sub>rb</sub>     | K <sub>rb</sub>  | -                          |                                                                                                                                    | 0.6                | 0.6                | 0.4                | 0.4                |
| Tank Rim Seal Factor, n                   | n                | -                          |                                                                                                                                    | 0.3                | 0.3                | 1                  | 1                  |
| Rim Seal Factor                           | K <sub>R</sub>   | lb-mole/ft <sup>2</sup> yr |                                                                                                                                    | 0.300              | 0.300              | 0.600              | 0.600              |
| Period                                    | -                | -                          |                                                                                                                                    | Annual             | Annual             | Annual             | Annual             |
| Average Wind Speed                        | v                | mph                        | Equal 0 for IFR Tanks                                                                                                              | 0.00               | 0.00               | 0.00               | 0.00               |
| Daily Total Solar Insolation Factor       | I                | Btu/ft <sup>2</sup> -d     |                                                                                                                                    | 1404.00            | 1404.00            | 1404.00            | 1404.00            |
| Daily Maximum Ambient Temperature         | T <sub>AX</sub>  | °F                         |                                                                                                                                    | 79.00              | 79.00              | 79.00              | 79.00              |
| Daily Minimum Ambient Temperature         | T <sub>AN</sub>  | °F                         |                                                                                                                                    | 60.10              | 60.10              | 60.10              | 60.10              |
| Daily Ambient Temp. Change                | DT <sub>A</sub>  | °R                         | T <sub>AX</sub> - T <sub>AN</sub>                                                                                                  | 18.90              | 18.90              | 18.90              | 18.90              |
| Daily Avg. Ambient Temperature            | T <sub>AA</sub>  | °F                         | ((T <sub>AX</sub> +459.67)+(T <sub>AN</sub> +459.67))/2                                                                            | 69.55              | 69.55              | 69.55              | 69.55              |
| Heated/Hot Product                        |                  |                            |                                                                                                                                    | No                 | No                 | No                 | No                 |
| Bulk Temperature Source                   |                  |                            |                                                                                                                                    | Ambient            | Ambient            | Ambient            | Ambient            |
| Liquid Bulk Temperature                   | T <sub>B</sub>   | °F                         | T <sub>AA</sub> + 6 $\alpha$ -1                                                                                                    | 69.57              | 69.57              | 69.57              | 69.57              |
| Insulated?                                |                  |                            | 0.44T <sub>AA</sub> +0.56n <sub>h</sub> +0.0079( $\alpha$ *) if not insulated otherwise T <sub>AA</sub> based on measurements from | No                 | No                 | No                 | No                 |
| Daily Avg. Liquid Surface Temp.           | T <sub>LA</sub>  | °F                         |                                                                                                                                    | 71.45              | 71.45              | 71.45              | 71.45              |
| Daily Max. Avg. Liq. Surf. Temp.          | T <sub>LA</sub>  | °F                         | T <sub>LA</sub> +0.25*DT <sub>v</sub>                                                                                              | 76.52              | 76.52              | 76.52              | 76.52              |
| Daily Min. Avg. Liq. Surf. Temp.          | T <sub>LA</sub>  | °F                         | T <sub>LA</sub> +0.25*DT <sub>v</sub>                                                                                              | 66.37              | 66.37              | 66.37              | 66.37              |
| Daily Vapor Temperature Range             | DT <sub>v</sub>  | °R                         | 0.72*DT <sub>A</sub> +0.028* $\alpha$ *I                                                                                           | 20.29              | 20.29              | 20.29              | 20.29              |
| Crude Oil Service?                        | -                | Y/N                        |                                                                                                                                    | Y                  | Y                  | Y                  | Y                  |
| Liquid Molecular Wt.                      | M <sub>L</sub>   | lb/lb-mole                 |                                                                                                                                    | 207.00             | 207.00             | 207.00             | 207.00             |
| Vapor Molecular Wt.                       | M <sub>v</sub>   | lb/lb-mole                 |                                                                                                                                    | 50.00              | 50.00              | 50.00              | 50.00              |
| Liquid Density                            | W <sub>L</sub>   | lb/gal                     |                                                                                                                                    | 7.10               | 7.10               | 7.10               | 7.10               |
| Max Liquid H <sub>2</sub> S Concentration |                  | ppmw                       |                                                                                                                                    | 50                 | 50                 | 50                 | 50                 |
| Max Vapor H <sub>2</sub> S Concentration  |                  | ppmw                       |                                                                                                                                    | 5,159              | 5,159              | 5,159              | 5,159              |
| Vapor Pressure Method                     | -                | -                          |                                                                                                                                    | RVP                | RVP                | RVP                | RVP                |
| Raid Vapor Pressure                       | RVP              | psi                        |                                                                                                                                    | 7.00               | 7.00               | 7                  | 7                  |
| Slope                                     | SI               | °F/vol %                   |                                                                                                                                    | 0                  | 0                  | 0                  | 0                  |
| Vapor Pressure Equation Constant A        | A                | dim                        |                                                                                                                                    | 10.938             | 10.938             | 10.938             | 10.938             |
| Vapor Pressure Equation Constant B        | B                | °R or °C                   |                                                                                                                                    | 4895               | 4895               | 4895               | 4895               |
| Vapor Pressure Equation Constant C        | C                | °C                         |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 40 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 50 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 60 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 70 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 80 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 90 °F                    |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| Vapor Pressure @ 100 °F                   |                  | psia                       |                                                                                                                                    | NA                 | NA                 | NA                 | NA                 |
| True Vapor Pressure @ T <sub>LA</sub>     | P <sub>VA</sub>  | psia @ T <sub>LA</sub>     |                                                                                                                                    | 5.60               | 5.60               | 5.60               | 5.60               |
| True Vapor Pressure @ T <sub>LA</sub>     | P <sub>VL</sub>  | psia @ T <sub>LA</sub>     |                                                                                                                                    | 6.10               | 6.10               | 6.10               | 6.10               |
| True Vapor Pressure @ T <sub>LA</sub>     | P <sub>VL</sub>  | psia @ T <sub>LA</sub>     |                                                                                                                                    | 5.12               | 5.12               | 5.12               | 5.12               |
| Vapor Pressure Function                   | P <sup>+</sup>   | dim                        | P <sub>w</sub> /P <sub>x</sub> /(1+(1-P <sub>w</sub> /P <sub>x</sub> )*0.5)*2                                                      | 0.1197             | 0.1197             | 0.1197             | 0.1197             |
| Daily Vapor Pressure Range                | DP <sub>v</sub>  | psia                       | P <sub>LA</sub> - P <sub>RA</sub>                                                                                                  | 0.99               | 0.99               | 0.99               | 0.99               |
| Rim Seal Loss                             | L <sub>R</sub>   | lb/yr                      | (K <sub>R</sub> )(P <sup>+</sup> )(D)(M <sub>L</sub> )(K <sub>C</sub> )                                                            | 154.4              | 154.4              | 308.9              | 308.9              |
| Deck Fitting Loss                         | L <sub>F</sub>   | lb/yr                      | (F <sub>F</sub> )(P <sup>+</sup> )(M <sub>L</sub> )(K <sub>C</sub> )                                                               | 1624.8             | 1624.8             | 1580.2             | 1580.2             |
| Deck Seam Loss                            | L <sub>D</sub>   | lb/yr                      | (K <sub>D</sub> )(S <sub>D</sub> )(D <sup>2</sup> )(P <sup>+</sup> )(M <sub>L</sub> )(K <sub>C</sub> )                             | 0.00               | 0.00               | 0.00               | 0.00               |
| Withdrawal Loss                           | L <sub>WD</sub>  | lb/yr                      | [(0.943)(Q)(C)(W <sub>L</sub> )/(D)](1+[(N <sub>C</sub> )(F <sub>C</sub> )]/D)                                                     | 37639.60           | 37639.60           | 37639.60           | 37639.60           |
| Total VOC Loss                            | L <sub>T</sub>   | lb/yr                      | (L <sub>R</sub> +L <sub>F</sub> +L <sub>D</sub> +L <sub>WD</sub> )                                                                 | 39418.85           | 39418.85           | 39528.60           | 39528.60           |
| Total H2S Emissions                       |                  | ton/yr                     |                                                                                                                                    | 0.006              | 0.006              | 0.006              | 0.006              |
| Total VOC Emissions                       | L <sub>T</sub>   | ton/yr                     | L <sub>T</sub> /2000                                                                                                               | 19.71              | 19.71              | 19.76              | 19.76              |
| Material                                  |                  |                            |                                                                                                                                    | Crude (Short-Term) | Crude (Short-Term) | Crude (Short-Term) | Crude (Short-Term) |
| Shell Clingage                            | C                | bbl/1000ft <sup>2</sup>    |                                                                                                                                    | 0.006              | 0.006              | 0.006              | 0.006              |
| Product Factor                            | K <sub>C</sub>   | -                          |                                                                                                                                    | 0.40               | 0.40               | 0.40               | 0.40               |
| Vapor Molecular Wt.                       | M <sub>v</sub>   | lb/lb-mole                 |                                                                                                                                    | 50.00              | 50.00              | 50.00              | 50.00              |
| Liquid Density                            | W <sub>L</sub>   | lb/gal                     |                                                                                                                                    | 7.10               | 7.10               | 7.10               | 7.10               |
| Month                                     | -                | -                          |                                                                                                                                    | July               | July               | July               | July               |
| Average Wind Speed                        | v                | mph                        | Equal 0 for IFR Tanks                                                                                                              | 0.00               | 0.00               | 0.00               | 0.00               |
| Rim Seal Factor                           | K <sub>R</sub>   | lb-mole/ft <sup>2</sup> yr |                                                                                                                                    | 0.300              | 0.300              | 0.600              | 0.600              |
| Daily Total Solar Insolation Factor       | I                | Btu/ft <sup>2</sup> -d     |                                                                                                                                    | 1930.00            | 1930.00            | 1930.00            | 1930.00            |
| Daily Maximum Ambient Temperature         | T <sub>AX</sub>  | °F                         |                                                                                                                                    | 93.10              | 93.10              | 93.10              | 93.10              |
| Daily Minimum Ambient Temperature         | T <sub>AN</sub>  | °F                         |                                                                                                                                    | 75.10              | 75.10              | 75.10              | 75.10              |
| Daily Ambient Temp. Change                | DT <sub>A</sub>  | °R                         | T <sub>AX</sub> - T <sub>AN</sub>                                                                                                  | 18.00              | 18.00              | 18.00              | 18.00              |
| Daily Avg. Ambient Temperature            | T <sub>AA</sub>  | °F                         | ((T <sub>AX</sub> +459.67)+(T <sub>AN</sub> +459.67))/2                                                                            | 84.10              | 84.10              | 84.10              | 84.10              |
| Bulk Temperature Source                   |                  |                            |                                                                                                                                    | Ambient            | Ambient            | Ambient            | Ambient            |
| Liquid Bulk Temperature                   | T <sub>B</sub>   | °F                         | T <sub>AA</sub> + 6 $\alpha$ -1                                                                                                    | 84.12              | 84.12              | 84.12              | 84.12              |
| Insulated?                                |                  |                            | 0.44T <sub>AA</sub> +0.56n <sub>h</sub> +0.0079( $\alpha$ *) if not insulated otherwise T <sub>AA</sub> based on measurements from | No                 | No                 | No                 | No                 |
| Daily Avg. Liquid Surface Temp.           | T <sub>LA</sub>  | °F                         |                                                                                                                                    | 86.70              | 86.70              | 86.70              | 86.70              |
| Daily Max. Avg. Liq. Surf. Temp.          | T <sub>LA</sub>  | °F                         | T <sub>LA</sub> +0.25*DT <sub>v</sub>                                                                                              | 100.00             | 100.00             | 100.00             | 100.00             |
| Daily Vapor Temperature Range             | DT <sub>v</sub>  | °R                         | 0.72*DT <sub>A</sub> +0.028* $\alpha$ *I                                                                                           | 22.15              | 22.15              | 22.15              | 22.15              |
| Max Stored True Vapor Pressure            | P <sub>VA</sub>  | psia                       |                                                                                                                                    | 11.00              | 11.00              | 11.00              | 11.00              |
| Vapor Pressure Function                   | P <sup>+</sup>   | dim                        | P <sub>w</sub> /P <sub>x</sub> /(1+(1-P <sub>w</sub> /P <sub>x</sub> )*0.5)*2                                                      | 0.33409            | 0.33409            | 0.33409            | 0.33409            |
| Rim Seal Loss                             | L <sub>R</sub>   | lb/yr                      | (K <sub>R</sub> )(P <sup>+</sup> )(D)(M <sub>L</sub> )(K <sub>C</sub> )                                                            | 430.98             | 430.98             | 861.96             | 861.96             |
| Deck Fitting Loss                         | L <sub>F</sub>   | lb/yr                      | (F <sub>F</sub> )(P <sup>+</sup> )(M <sub>L</sub> )(K <sub>C</sub> )                                                               | 4534.64            | 4534.64            | 4409.96            | 4409.96            |
| Deck Seam Loss                            | L <sub>D</sub>   | lb/yr                      | (K <sub>D</sub> )(S <sub>D</sub> )(D <sup>2</sup> )(P <sup>+</sup> )(M <sub>L</sub> )(K <sub>C</sub> )                             | 0.00               | 0.00               | 0.00               | 0.00               |
| Withdrawal Loss                           | L <sub>WD</sub>  | lb/yr                      | [(0.943)(Q)(C)(W <sub>L</sub> )/(D)](1+[(N <sub>C</sub> )(F <sub>C</sub> )]/D)                                                     | 100569.07          | 100569.07          | 100569.07          | 100569.07          |
| Number of Tanks                           | -                | -                          |                                                                                                                                    | 1                  | 1                  | 1                  | 1                  |
| Hourly H2S Loss                           |                  | lb/hr                      |                                                                                                                                    | 0.003              | 0.003              | 0.004              | 0.004              |
| Hourly VOC Standing Idle Loss             |                  | lb/hr                      | (L <sub>R</sub> +L <sub>F</sub> +L <sub>D</sub> )/8760                                                                             | 0.567              | 0.567              | 0.602              | 0.602              |
| Hourly VOC Standing Idle and Working Loss | L <sub>T</sub>   | lb/hr                      | (L <sub>R</sub> +L <sub>F</sub> +L <sub>D</sub> +L <sub>WD</sub> )/8760                                                            | 12.05              | 12.05              | 12.08              | 12.08              |

**Table C-2**  
**Tank Deck Fitting Factors**  
**South Bow Terminals LLC (Houston Tank Terminal)**

|                                 |                                           |      |      |      | Houston, Texas |          |          |          |
|---------------------------------|-------------------------------------------|------|------|------|----------------|----------|----------|----------|
| Average Annual Wind Speed (ws): |                                           |      |      |      | 7.40 mph       |          |          |          |
| Tank Category>>>                |                                           |      |      |      | BO-TK-01       | BO-TK-02 | BO-TK-03 | BO-TK-04 |
| Roof Type>                      |                                           |      |      |      | IFR            | IFR      | IFR      | IFR      |
| Fitting Type                    | Cover Type/Description                    | KFa  | KFb  | m    | Quantity       | Quantity | Quantity | Quantity |
|                                 | <b>Diameter</b>                           |      |      |      | 215.00         | 215.00   | 215.00   | 215.00   |
|                                 | <b>Deck Construction</b>                  |      |      |      | Welded         | Welded   | Welded   | Welded   |
|                                 | <b>Floating Roof Type</b>                 |      |      |      | Aluminum       | Aluminum | Aluminum | Aluminum |
|                                 | <b>Self-Supporting Roof?</b>              |      |      |      | FALSE          | FALSE    | FALSE    | FALSE    |
| Access Hatch (24-in. Diam.)     | Bolted Cover, Gasketed                    | 1.6  | 0    | 0    | 3              | 3        | 3        | 3        |
| Access Hatch (24-in. Diam.)     | Unbolted Cover, Ungasketed                | 36   | 5.9  | 1.2  |                |          |          |          |
| Access Hatch (24-in. Diam.)     | Unbolted Cover, Gasketed                  | 31   | 5.2  | 1.3  |                |          |          |          |
| Column Well (24-in. Diam.)      | Pipe Col.-Sliding Cover, Ungask.          | 31   | 0    | 0    |                |          |          |          |
| Column Well (24-in. Diam.)      | Pipe Col.-Sliding Cover, Gask.            | 25   | 0    | 0    | 19             | 19       | 19       | 19       |
| Column Well (24-in. Diam.)      | Pipe Col.-Flex. Fabric Sleeve Seal        | 10   | 0    | 0    |                |          |          |          |
| Column Well (24-in. Diam.)      | Built-Up Col.-Sliding Cover, Ungask.      | 51   | 0    | 0    |                |          |          |          |
| Column Well (24-in. Diam.)      | Built-Up Col.-Sliding Cover, Gask.        | 33   | 0    | 0    |                |          |          |          |
| Unslotted Guidepoles            | Ungasketed Sliding Cover                  | 31   | 150  | 1.4  |                |          |          |          |
| Unslotted Guidepoles            | Ungasketed Sliding Cover, w. Sleeve       | 25   | 2.2  | 2.1  |                |          |          |          |
| Unslotted Guidepoles            | Gasketed Sliding Cover                    | 25   | 13   | 2.2  |                |          |          |          |
| Unslotted Guidepoles            | Gasketed sliding Cover, w. Wiper          | 14   | 3.7  | 0.78 |                |          |          |          |
| Unslotted Guidepoles            | Gasketed Sliding Cover, w. Sleeve         | 8.6  | 12   | 0.81 | 1              | 1        | 1        | 1        |
| Slotted Guidepoles/Sample Well  | Ungask. Sliding Cover, w/o Float          | 43   | 270  | 1.4  |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Ungask. Sliding Cover, w. Float           | 31   | 36   | 2    |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w/o Float            | 43   | 270  | 1.4  |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w. Float             | 31   | 36   | 2    |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w. Pole Wiper        | 41   | 48   | 1.4  |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w. Pole Sleeve       | 11   | 46   | 1.4  |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w. Pole Sleeve,Wiper | 8.3  | 4.4  | 1.6  | 3              | 3        | 3        | 3        |
| Slotted Guidepoles/Sample Well  | Gask. Sliding Cover, w. Float, Wiper      | 21   | 7.9  | 1.8  |                |          |          |          |
| Slotted Guidepoles/Sample Well  | Gask Sliding Cvr, w. Float,Sleeve,Wiper   | 11   | 9.9  | 0.89 |                |          |          |          |
| Automatic Gauge Float Well      | Unbolted Cover, Ungasketed                | 14   | 5.4  | 1.1  |                |          |          |          |
| Automatic Gauge Float Well      | Unbolted Cover, Gasketed                  | 4.3  | 17   | 0.38 | 1              | 1        | 1        | 1        |
| Automatic Gauge Float Well      | Bolted Cover, Gasketed                    | 2.8  | 0    | 0    | 1              | 1        | 1        | 1        |
| Gauge-Hatch/Sample Well         | Weighted Mech. Actuation, Gask.           | 0.47 | 0.02 | 0.97 | 2              | 2        | 2        | 2        |
| Gauge-Hatch/Sample Well         | Weighted Mech. Actuation, Ungask.         | 2.3  | 0    | 0    |                |          |          |          |
| Gauge-Hatch/Sample Well         | Slit Fabric Seal 10% Open                 | 12   | 0    | 0    |                |          |          |          |
| Vacuum Breaker                  | Weighted Mech. Actuation, Ungask.         | 7.8  | 0.01 | 4    |                |          |          |          |
| Vacuum Breaker                  | Weighted Mech. Actuation, Gask.           | 6.2  | 1.2  | 0.94 | 3              | 3        | 3        | 3        |
| Roof Drain                      | Open                                      | 1.5  | 0.21 | 1.7  |                |          |          |          |
| Roof Drain                      | 90% Closed                                | 1.8  | 0.14 | 1.1  |                |          |          |          |
| Roof Drain                      | Stub                                      | 1.2  | 0    | 0    |                |          |          |          |
| Roof Leg - IFR                  | Adjustable                                | 7.9  | 0    | 0    |                |          |          |          |
| Roof Leg - Pontoon Area         | TYPICAL                                   |      |      |      | 0              | 0        | 0        | 0        |
| Roof Leg - Pontoon Area         | Adjustable, Pontoon Area, Ungasketed      | 2    | 0.37 | 0.91 |                |          |          |          |
| Roof Leg - Pontoon Area         | Adjustable, Pontoon Area, Gasketed        | 1.3  | 0.08 | 0.65 |                |          | 60       | 60       |
| Roof Leg - Pontoon Area         | Adjustable, Pontoon Area, Sock            | 1.2  | 0.14 | 0.65 | 115            | 115      |          |          |
| Roof Leg - Center Area          | Adjustable, Center Area, Ungasketed       | 0.82 | 0.53 | 0.14 |                |          |          |          |
| Roof Leg - Center Area          | Adjustable, Center Area, Gasketed         | 0.53 | 0.11 | 0.13 |                |          | 78       | 78       |
| Roof Leg - Center Area          | Adjustable, Center Area, Sock             | 0.49 | 0.16 | 0.14 |                |          |          |          |
| Roof Leg - Double-Deck          | Adjustable, Double-Deck Roofs             | 0.82 | 0.53 | 0.14 |                |          |          |          |
| Roof Leg - IFR                  | Fixed                                     | 0    | 0    |      |                |          |          |          |
| Rim Vent                        | Weighted Mech. Actuation, Ungask.         | 0.68 | 1.8  | 1    |                |          |          |          |
| Rim Vent                        | Weighted Mech. Actuation, Gask.           | 0.71 | 0.1  | 1    | 1              | 1        | 1        | 1        |
| Ladder Well                     | Sliding Cover, Ungasketed                 | 98   | 0    | 0    |                |          |          |          |
| Ladder Well                     | Sliding Cover, Gasketed                   | 56   | 0    | 0    |                |          |          |          |
| Deck Fitting Factor:            |                                           |      |      |      | 678.65         | 678.65   | 659.99   | 659.99   |

Table C-3  
Firewater Pump Emissions  
South Bow Terminals LLC (Houston Tank Terminal)

Confidential

|                                    |                      |
|------------------------------------|----------------------|
| Source ID:                         | Firewater Pump       |
| Description of Unit:               | John Deere 4044HF280 |
| Stroke Cycle:                      | 4-Stroke             |
| Type of Burn:                      | Rich-burn            |
| Fuel Used:                         | Diesel               |
| Minimum Higher Heating Value (HHV) | 19,300 BTU/lb        |
| Maximum Higher Heating Value (HHV) | 6.94 lb/gal          |
| Rated Horsepower:                  | 101 hp               |
| Fuel Consumption (Btu/bhp-hr)      | 25.6 gal/hr          |
| BSFC                               | 7,000.0 BTU/hp-hr    |
| Heat Input (MMBtu/hr)              | 3.43 MMBtu/hr        |
| Annual Hours of Operation:         | 100 hr/yr            |
| Annual Fuel Consumption:           | 2,560 gal/yr         |

Emission Factors:

| Pollutant | Emission Factor | Emission Factor Units | Emission Factor Reference |
|-----------|-----------------|-----------------------|---------------------------|
| NOx       | 2.60            | (g/hp-hr)             | a                         |
| CO        | 0.50            | (g/hp-hr)             | a                         |
| NM/NEVOC  | 0.10            | (g/hp-hr)             | a                         |
| PM10      | 0.09            | (g/hp-hr)             | a                         |
| PM2.5     | 0.09            | (g/hp-hr)             | a                         |
| SO2       | 0.29            | (lb/MMBtu)            | b                         |
| CH4       | 0.17            | (lb/MMBtu)            | c                         |
| CO2       | 163.05          | (lb/MMBtu)            | c                         |
| N2O       | 0.35            | (lb/MMBtu)            | c                         |
| CO2e      | 163.61          | (lb/MMBtu)            | c                         |

<sup>a</sup> Based on manufacturer data sheet.  
<sup>b</sup> Based on AP-42 Section 3.3, Table 3.3-1 for Gasoline and Diesel Industrial Engines  
<sup>c</sup> GHG EF from 40 CFR Part 98, Subpart C. CO2e EF calculated based on Global Warming Potential (GWP) as

| GHG Pollutant       | GWP | Mass EF           | Mass EF           |
|---------------------|-----|-------------------|-------------------|
| CO2                 | 1   | 73.96 kg/MMBtu    | 163.05 lb/MMBtu   |
| CH4                 | 28  | 3.00E-03 kg/MMBtu | 6.61E-03 lb/MMBtu |
| N2O                 | 265 | 6.00E-04 kg/MMBtu | 1.32E-03 lb/MMBtu |
| CO2e                | --- | ---               | ---               |
| Conversion factors: |     | 2000 lb/ton       | 2.2046 lb/kg      |

Potential to Emit:

| Pollutant                     | Emission Rate lb/hr | Calculation Method | Potential Emissions ton/yr <sup>3</sup> |
|-------------------------------|---------------------|--------------------|-----------------------------------------|
| NOx                           | 0.58                | 1                  | 0.03                                    |
| CO                            | 0.11                | 1                  | 0.01                                    |
| NM/NEVOC                      | 0.02                | 1                  | 0.00                                    |
| PM (Filterable + Condensable) | 0.02                | 1                  | 0.00                                    |
| PM10                          | 0.02                | 1                  | 0.00                                    |
| SO2                           | 0.99                | 2                  | 0.05                                    |
| CH4                           | 0.57                | 2                  | 0.03                                    |
| CO2                           | 559.33              | 2                  | 27.97                                   |
| N2O                           | 1.20                | 2                  | 0.06                                    |
| CO2e                          | 561.25              | 2                  | 28.06                                   |

<sup>1</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, g/bhp-hr) \* (Horsepower, hp) / 453.6  
<sup>2</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, lb/MMBtu) \* (Max Hourly Heat Input, MMBtu/hr)  
<sup>3</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, kg/MMBtu) \* (2.204623 lb/kg) \* (Max Hourly Heat Input, MMBtu/hr)  
<sup>4</sup> Annual Emission Rate (Tons/Yr) = (Hourly Emission Rate, Lbs/Hr) \* (Hour of Operation Per Year, Hr/Yr) / (2,000 Lbs/Ton)

Table C-4

Foam Pump System Emissions

South Bow Terminals LLC (Houston Tank Terminal)

Confidential

|                            |                   |                               |  |
|----------------------------|-------------------|-------------------------------|--|
| Source ID:                 | Foam System Pump  |                               |  |
| Description of Unit:       | Foam System Pump  |                               |  |
| Rated Horsepower:          | 48 hp             |                               |  |
| BSFC                       | 7,000.0 BTU/hp-hr | AP-42 Table 3.3-1, Footnote a |  |
| Annual Hours of Operation: | 100 hr/yr         |                               |  |

Emission Factors:

| Pollutant | Emission Factor | Emission Factor Units | Emission Factor Reference |
|-----------|-----------------|-----------------------|---------------------------|
| NOx       | 1.10E-02        | lb/hp-hr              | a                         |
| CO        | 6.96E-03        | lb/hp-hr              | a                         |
| NM/NEVOC  | 2.16E-02        | lb/hp-hr              | a                         |
| PM10      | 7.21E-04        | lb/hp-hr              | a                         |
| PM2.5     | 7.21E-04        | lb/hp-hr              | a                         |
| SO2       | 5.91E-04        | lb/hp-hr              | b                         |
| CH4       | 3.00E-03        | (lb/MMBtu)            | c                         |
| CO2       | 73.96           | (lb/MMBtu)            | c                         |
| N2O       | 6.00E-04        | (lb/MMBtu)            | c                         |

<sup>a</sup> Based on manufacturer data sheet.

<sup>b</sup> AP-42 Section 3.3, Table 3.3-1 for Gasoline and Diesel Industrial Engines

<sup>c</sup> GHG EF from 40 CFR Part 98, Subpart C. CO2e EF calculated based on Global Warming Potential (GWP) as follows:

| GHG Pollutant | GWP | Mass EF           | Mass EF           |
|---------------|-----|-------------------|-------------------|
| CO2           | 1   | 73.96 kg/MMBtu    | 163.05 lb/MMBtu   |
| CH4           | 28  | 3.00E-03 kg/MMBtu | 6.61E-03 lb/MMBtu |
| N2O           | 265 | 6.00E-04 kg/MMBtu | 1.32E-03 lb/MMBtu |
| CO2e          | —   | —                 | —                 |

|                     |             |              |
|---------------------|-------------|--------------|
| Conversion factors: | 2000 lb/ton | 2.2046 lb/kg |
|---------------------|-------------|--------------|

Potential to Emit:

| Pollutant                     | Emission Rate lb/hr | Calculation Method | Potential Emissions ton/yr <sup>3</sup> |
|-------------------------------|---------------------|--------------------|-----------------------------------------|
| NOx                           | 0.53                | 1                  | 0.026                                   |
| CO                            | 0.33                | 1                  | 0.017                                   |
| NM/NEVOC                      | 1.04                | 1                  | 0.052                                   |
| PM (Filterable + Condensable) | 0.03                | 1                  | 0.002                                   |
| PM10                          | 0.03                | 1                  | 0.002                                   |
| SO2                           | 0.03                | 2                  | 0.001                                   |
| CH4                           | 2.22E-03            | 2                  | 1.11E-04                                |
| CO2                           | 54.79               | 2                  | 2.74                                    |
| N2O                           | 4.44E-04            | 2                  | 2.22E-05                                |
| CO2e                          | 54.97               | 2                  | 2.75                                    |

<sup>1</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, g/bhp-hr) \* (Horsepower, hp) / 453.6

<sup>2</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, lb/MMBtu) \* (Max Hourly Heat Input, MMBtu/hr)

<sup>3</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, kg/MMBtu) \* (2.204623 lb/kg) \* (Max Hourly Heat Input, MMBtu/hr)

<sup>4</sup> Annual Emission Rate (Tons/Yr) = (Hourly Emission Rate, Lbs/Hr) \* (Hour of Operation Per Year, Hr/Yr) / (2,000 Lbs/Ton)

Table C-5

South Bow Terminals LLC (Houston Tank Terminal)

Emergency Engine Emissions

Confidential

|                                    |                     |
|------------------------------------|---------------------|
| Source ID:                         | Auxiliary Generator |
| Description of Unit:               | Clark JX6H          |
| Stroke Cycle:                      | 4-Stroke            |
| Type of Burn:                      | Rich-burn           |
| Fuel Used:                         | Diesel              |
| Minimum Higher Heating Value (LHV) | 19,300 BTU/lb       |
| Maximum Higher Heating Value (HHV) | 6.94 lb/gal         |
| Rated Horsepower:                  | 152 hp              |
| Fuel Consumption                   | 7.3 gal/hr          |
| BSFC                               | 7,000.0 BTU/hp-hr   |
| Heat Input                         | 0.98 MMBtu/hr       |
| Annual Hours of Operation:         | 100 hr/yr           |
| Annual Fuel Consumption:           | 730 gal/yr          |

Emission Factors:

| Pollutant                     | Emission Factor | Emission Factor Units | Emission Factor Reference |
|-------------------------------|-----------------|-----------------------|---------------------------|
| NOx                           | 10.89           | (g/hp-hr)             | a                         |
| CO                            | 2.49            | (g/hp-hr)             | a                         |
| NM/NEVOC                      | 0.29            | (g/hp-hr)             | a                         |
| PM (Filterable + Condensable) | 0.318           | (g/hp-hr)             | a                         |
| PM10                          | 0.318           | (g/hp-hr)             | a                         |
| SO2                           | 1.0100          | (lb/MMBtu)            | a                         |
| CH4                           | 0.1650          | (lb/MMBtu)            | b                         |
| CO2                           | 163.0500        | (lb/MMBtu)            | b                         |
| N2O                           | 0.3505          | (lb/MMBtu)            | b                         |
| CO2e                          | 163.6100        | (lb/MMBtu)            | b                         |

<sup>a</sup> Based on AP-42

<sup>b</sup> GHG EF from 40 CFR Part 98, Subpart C. CO2e EF calculated based on Global Warming Potential (GWP) as follows:

| GHG Pollutant       | GWP | Mass EF           |
|---------------------|-----|-------------------|
| CO2                 | 1   | 73.96 kg/MMBtu    |
| CH4                 | 28  | 3.00E-03 kg/MMBtu |
| N2O                 | 265 | 6.00E-04 kg/MMBtu |
| CO2e                | —   | —                 |
| Conversion factors: |     | 2000 lb/ton       |

Potential to Emit:

| Pollutant | Emission Rate lb/hr | Calculation Method | Potential Emissions ton/yr <sup>3</sup> |
|-----------|---------------------|--------------------|-----------------------------------------|
| NOx       | 3.65                | 1                  | 0.18                                    |
| CO        | 0.84                | 1                  | 0.04                                    |
| NM/NEVOC  | 0.10                | 1                  | 0.00                                    |
| PM10      | 0.11                | 1                  | 0.01                                    |
| PM2.5     | 0.11                | 1                  | 0.01                                    |
| SO2       | 0.99                | 2                  | 0.05                                    |
| CH4       | 0.16                | 2                  | 0.01                                    |
| CO2       | 159.50              | 2                  | 7.97                                    |
| N2O       | 0.34                | 2                  | 0.02                                    |
| CO2e      | 160.04              | 2                  | 8.00                                    |

<sup>1</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, g/bhp-hr) \* (Horsepower, hp) / 453.6

<sup>2</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, lb/MMBtu) \* (Max Hourly Heat Input, MMBtu/hr)

<sup>3</sup> Hourly Emission Rate (lbs/Hr) = (Emission Factor, kg/MMBtu) \* (2,204.623 lb/kg) \* (Max Hourly Heat Input, MMBtu/hr)

<sup>4</sup> Annual Emission Rate (Tons/Yr) = (Hourly Emission Rate, Lbs/Hr) \* (Hour of Operation Per Year, Hr/Yr) / (2,000 Lbs/Ton)

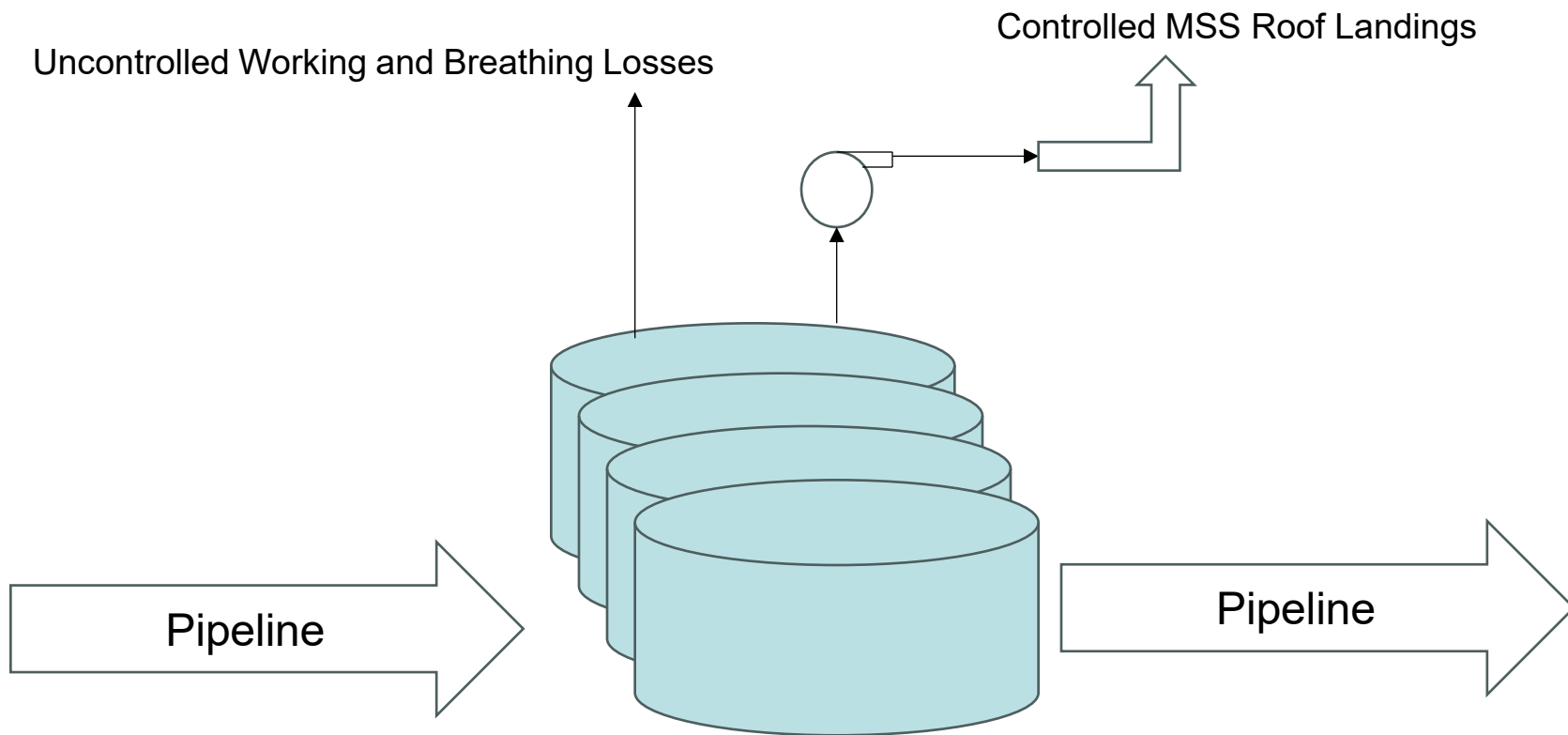
**Table C-6**  
**Fugitive Emissions**  
**South Bow Terminals LLC (Houston Tank Terminal)**

| Component Type | Stream Type  | Emission Factors | Control Efficiencies | Number of Components | Hourly Emissions (lb/hr) | Annual Emissions (tpy) |
|----------------|--------------|------------------|----------------------|----------------------|--------------------------|------------------------|
|                |              | Oil and Gas      | None                 |                      |                          |                        |
| Valves         | Light Liquid | 0.0000948        | 0%                   | 350                  | 0.03                     | 0.15                   |
| Pumps          | Light Liquid | 0.00119          | 0%                   | 30                   | 0.04                     | 0.16                   |
| Connectors     | Light Liquid | 0.00001762       | 0%                   | 1,016                | 0.02                     | 0.08                   |
| Other          | Light Liquid | 0.000287         | 0%                   | 34                   | 0.01                     | 0.04                   |
| <b>Total</b>   |              |                  |                      |                      | <b>0.10</b>              | <b>0.42</b>            |

| Stream Type     | VOC Emissions |             | H <sub>2</sub> S Emissions |                 |                 |
|-----------------|---------------|-------------|----------------------------|-----------------|-----------------|
|                 | lb/hr         | tpy         | ppmw                       | lb/hr           | tpy             |
| Gas             | -             | -           | 5,159                      | -               | -               |
| Water/Light Oil | -             | -           | 50                         | -               | -               |
| Light Oil       | -             | -           | 50                         | -               | -               |
| Heavy Oil       | -             | -           | 50                         | 0.00E+00        | 0.00E+00        |
| <b>Total</b>    | <b>0.00</b>   | <b>0.00</b> | <b>-</b>                   | <b>0.00E+00</b> | <b>0.00E+00</b> |

Notes:

1. Emission Factors based on TCEQ's Air Permit Technical Guidance Package for Chemical Sources: Equipment Leak Fugitives, Uncontrolled SOCMF Fugitive Emission Factors, dated June 2018.
2. Percent reduction based on TCEQ's Air Permit Technical Guidance Package for Chemical Sources: Equipment Leak Fugitives, Control Efficiencies for TNRCC Leak Detection and Repair Programs, dated July 2011.



South Bow Terminals, LLC  
Houston Tank Terminal

Figure 1 – Process Flow Diagram

August 2025





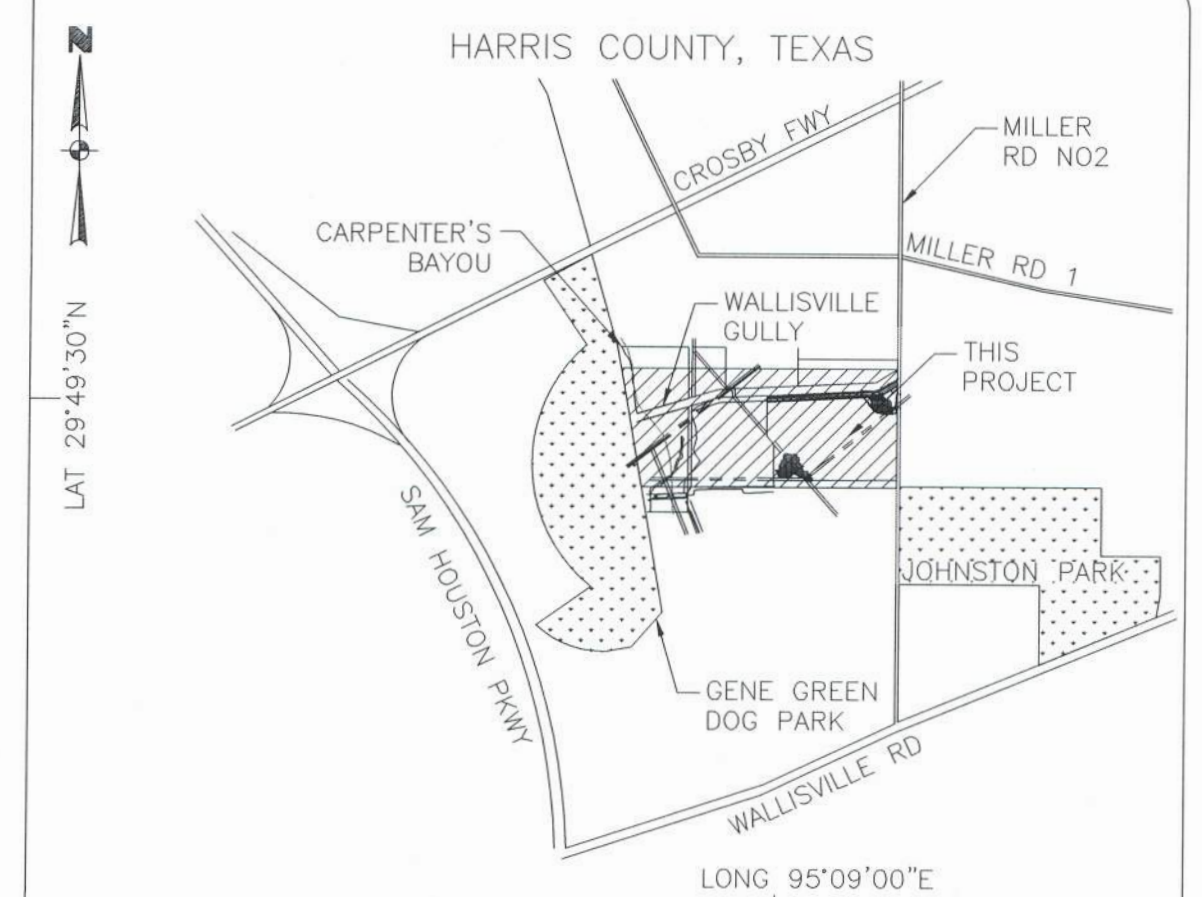
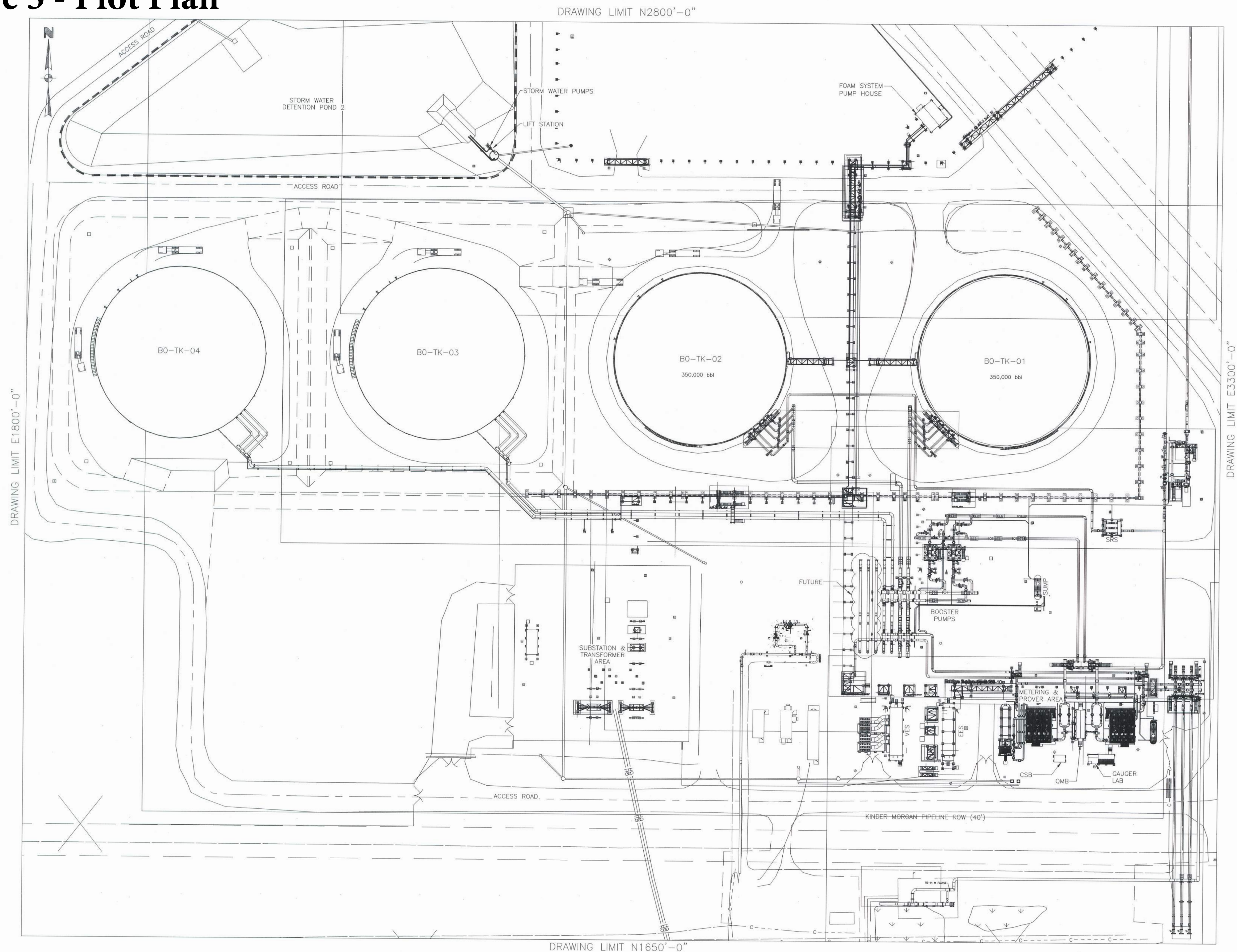
South Bow Terminals, LLC  
Houston Tank Terminal

Figure 2 – Area Map

August 2025



### Figure 3 - Plot Plan



NOTES:

1. ALL DIMENSIONS, ELEVATIONS AND COORDINATES ARE IN FEET AND INCHES.
2. LOCATION OF TANK B0-TK-01 BASED ON "PROTECTION FOR EXPOSURES" ON ADJACENT PROPERTIES PER NFPA 30, TABLE 22.4.1.1(a).
3. PLANT COORDINATES SYSTEM RELATES TO UTM COORDINATES AS FOLLOWS:  

|                |             |            |             |
|----------------|-------------|------------|-------------|
| UTM ZONE 15N   | COORDINATES | LOCAL SITE | COORDINATES |
| N 10828734.69' |             | N 000.000' |             |
| E 955510.27'   |             | E 000.000' |             |

UTM NORTH AND LOCAL PLANT NORTH COINCIDES.  
VERTICAL DATUM: NAVD 1988, 2001 ADJUSTMENT  
REFERENCE STREAM ELEVATION SENSOR 1459 ELEVATION 41.20'
4. REFER TO DRAWINGS 4696-01-00-03-003/004 FOR MECHANICAL EQUIPMENT LOCATIONS.
5. ALL EQUIPMENT TAGS TO BE PRECEDED BY "235-HSTNT", eg.253-HSTNT-B0-TK-01.
6. REFER TO DRAWINGS 4696-01-00-03-044 FOR STORM WATER AND FLOOD MITIGATION PUMPS LOCATIONS.



SCALE: 1"=70'

| REFERENCE DRAWINGS       |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| DRAWING No               | TITLE                                                           |
| 4696-01-00-03-003        | MECHANICAL EQUIPMENT LAYOUT, PROCESS AREA                       |
| 4696-01-00-03-004        | MECHANICAL EQUIPMENT LAYOUT, TANK FARM AREA & PIG TRAP RECEIVER |
| 4696-01-00-02-055 TO 062 | CIVIL SITE PREPARATION FINISHED GRADING PLAN                    |
|                          |                                                                 |
|                          |                                                                 |
|                          |                                                                 |
|                          |                                                                 |
|                          |                                                                 |

[illegible]

|                           |                       |
|---------------------------|-----------------------|
| PROFESSIONAL ENGINEER/RPT | PERMIT/ ENG. APPROVAL |
|                           |                       |
|                           | DATE                  |

|                                                                                                                                           |                   |                                                             |     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|-----|
|  <b>TransCanada</b><br><i>In business to deliver</i> |                   | TEXAS FIRM NO. F-19727<br><b>BURROW GLOBAL</b><br>MIDSTREAM |     |
| HOUSTON TANK TERMINAL                                                                                                                     |                   |                                                             |     |
| FIA #                                                                                                                                     | 4696              | CHAINAGE:                                                   | --- |
|                                                                                                                                           |                   | DISCIPLINE # 01                                             |     |
| KEYSTONE XL OIL PIPELINE<br>HOUSTON TANK TERMINAL EXPANSION<br>ENLARGED PLOT PLAN                                                         |                   |                                                             |     |
| SCALE<br>1"=200'                                                                                                                          | DRAWING No        |                                                             | REV |
|                                                                                                                                           | 4696-01-00-03-108 |                                                             | 00  |