FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Rohm and Haas Texas Incorporated

AUTHORIZING THE OPERATION OF
Rohm and Haas Texas Deer Park Plant
N-Area
All Other Basic Organic Chemical Manufacturing

LOCATED AT
Harris County, Texas
Latitude 29° 43′ 44″ Longitude 95° 6′ 15″
Regulated Entity Number: RN100223205

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O2233 Issuance Date: _____

_____
For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:

    A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.

    B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

    C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.

    D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

    E. Emission units subject to 40 CFR Part 63, Subparts A, H, YY, FFFF, ZZZZ, or DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC

Chapter 113, Subchapter C, §§ 113.100, 113.130, 113.560, 113.890, 113.1090, or 113.1130, respectively, which incorporates the 40 CFR Part 63 Subpart by reference.

F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.302 (relating to General Provisions)

(ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)

(iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit

G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:

(i) Title 30 TAC § 101.352 (relating to General Provisions)

(ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)

(iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)

(iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)

(v) Title 30 TAC § 101.359 (relating to Reporting)

(vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)

(vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit

H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 101.372 (relating to General Provisions)

(ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)

(iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)

(iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

(v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

   A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements

   B. Title 30 TAC § 101.3 (relating to Circumvention)

   C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ

   D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ

   E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

   F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)

   G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)

   H. Title 30 TAC § 101.221 (relating to Operational Requirements)

   I. Title 30 TAC § 101.222 (relating to Demonstrations)

   J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

   A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

      (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

      (ii) Title 30 TAC § 111.111(a)(1)(E)

      (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation

of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

(1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.

(2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement.

However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

(c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:

(i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)

(ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

(iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

4. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:

A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)

B. Title 30 TAC § 115.145 (relating to Approved Test Methods)

C. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)

D. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less

E. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

   A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)

   B. Title 40 CFR § 60.8 (relating to Performance Tests)

   C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

   D. Title 40 CFR § 60.12 (relating to Circumvention)

   E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)

   F. Title 40 CFR § 60.14 (relating to Modification)

   G. Title 40 CFR § 60.15 (relating to Reconstruction)

   H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

7. For process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.1106(b), the permit holder shall comply with the requirements of 40 CFR § 63.105(b) - (e) (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.560 incorporated by reference).

8. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

9. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

10. For the transfer of site remediation materials subject to 40 CFR Part 63, Subpart GGGGG off-site to another facility, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1160 incorporated by reference):

    A. Title 40 CFR § 63.7936(a), for the transfer of site remediation materials

    B. Title 40 CFR § 63.7936(b)(1), for transfer to a landfill or land disposal unit

    C. Title 40 CFR § 63.7936(b)(2), for transfer to a facility subject to 40 CFR Part 63, Subpart DD

    D. Title 40 CFR § 63.7936(b)(3), (b)(3)(i) - (iv), for transfer to a facility managing the site remediation material according to the requirements of 40 CFR Part 63, Subpart GGGGG

11. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be

maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

New Source Review Authorization Requirements

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated March 14, 2024 in the application for project 36452), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

    A. Are incorporated by reference into this permit as applicable requirements

    B. Shall be located with this operating permit

    C. Are not eligible for a permit shield

13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

15. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

16. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:

A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:

(i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:

(1) Title 30 TAC § 117.9020(2)(A), (C), and (D)

B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).

C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.

17. Use of Emission Credits to comply with applicable requirements:

A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) Offsets for Title 30 TAC Chapter 116

B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)

(ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1

(iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

18. Use of Discrete Emission Credits to comply with the applicable requirements:

A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

(i) Title 30 TAC Chapter 115

(ii) Title 30 TAC Chapter 117

(iii) If applicable, offsets for Title 30 TAC Chapter 116

(iv) Temporarily exceed state NSR permit allowables

B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

(i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

(ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4

(iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

19. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

20. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Alternative Requirements

21. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the TCEQ Executive Director,

demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

22. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

23. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
ACHPRO	CHEMICAL MANUFACTURING PROCESS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
CT-1	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
CT-N5-N	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
CT-N5-S	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
CT-N7	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
FN	FUGITIVE EMISSION UNITS	N/A	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
FN	FUGITIVE EMISSION UNITS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
FN	FUGITIVE EMISSION UNITS	N/A	63H-ALL	40 CFR Part 63, Subpart H	No changing attributes.
FN	FUGITIVE EMISSION UNITS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
GRPN5WW	WASTEWATER UNITS	ACHFILTRWW, N-01008WW, N-01471WW, N-01731WW, N-27375WW, N-27569WW, N-27580WW, N-27646WW, N-27685WW, N-37340WW, N5SUMPWW,	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		SAMPLEWW			
HCNPRO	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-01158WW	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-07216	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-07286	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-07288	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-07654	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-07786WW	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-07786WW	STORAGE TANKS/VESSELS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-12R	PROCESS HEATERS/FURNACES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N-12R	PROCESS HEATERS/FURNACES	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
N-14	PROCESS HEATERS/FURNACES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N-14	PROCESS HEATERS/FURNACES	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
N-15	STORAGE	N/A	R5112-01	30 TAC Chapter 115,	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	TANKS/VESSELS			Storage of VOCs	
N-16	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-17	FLARES	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
N-17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-17	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
N-17	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.
N-17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
N-17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-17WW	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-18	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-18	STORAGE TANKS/VESSELS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-21	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-22	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-27210	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
N-27290	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-27375	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-27381	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-27691	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-27717	STORAGE TANKS/VESSELS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-27786WW	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-27786WW	STORAGE TANKS/VESSELS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-37200	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-37290	DISTILLATION OPERATIONS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-37381	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
N-37486	STORAGE TANKS/VESSELS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-3R	PROCESS HEATERS/FURNACES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N-3R	PROCESS HEATERS/FURNACES	N/A	63DDDDD-01	40 CFR Part 63, Subpart DDDDD	No changing attributes.
N-4	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
N-6	FLARES	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
N-6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-6	FLARES	N/A	60A-01	40 CFR Part 60, Subpart A	No changing attributes.
N-6	FLARES	N/A	63A-01	40 CFR Part 63, Subpart A	No changing attributes.
N-6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
N-6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63YY-01	40 CFR Part 63, Subpart YY	No changing attributes.
N-6WW	WASTEWATER UNITS	N/A	R5140-01	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
N-7	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-8	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-9	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
N-N5GEN	SRIC ENGINES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N-SUB12	SRIC ENGINES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
N-SUB12	SRIC ENGINES	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
N-SUB39	SRIC ENGINES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N3COMP	SRIC ENGINES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N3COMP	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
N5COMP	SRIC ENGINES	N/A	R7ICI-01	30 TAC Chapter 117, Subchapter B	No changing attributes.
N5COMP	SRIC ENGINES	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ACHPRO	PRO	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2440(a) § 63.2450(a)(2) § 63.2450(e)(4) § 63.2450(g)(7) § 63.2450(k)(8) § 63.2450(t) § 63.2450(u) § 63.2450(v)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	§ 63.2445(d) § 63.2450(g)(6)	§ 63.2525 § 63.2525(a) [G]§ 63.2525(b) § 63.2525(c) § 63.2525(p)	§ 63.2435(d) § 63.2445(c) § 63.2450(g)(5) [G]§ 63.2450(m) § 63.2515(a) § 63.2515(b)(1) § 63.2515(c) § 63.2520(a) [G]§ 63.2520(b) [G]§ 63.2520(c) [G]§ 63.2520(d) § 63.2520(e) § 63.2520(e)(1) [G]§ 63.2520(e)(10) § 63.2520(e)(14) § 63.2520(e)(15) § 63.2520(e)(16) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(5) § 63.2520(e)(5)(i) § 63.2520(e)(5)(ii)(A) § 63.2520(e)(5)(ii)(D) [G]§ 63.2520(e)(5)(ii) [G]§ 63.2520(e)(5)(iii) § 63.2520(e)(7) § 63.2520(e)(9) § 63.2520(g)(5)
CT-1	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) § 63.2490(a) § 63.2490(d)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) § 63.2490(d)	§ 63.2525(r)	§ 63.2520(e)(16)
CT-N5-N	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a)	For each heat exchange system, as defined in §63.101, comply with the	[G]§ 63.104(b) § 63.2490(d)	§ 63.2525(r)	§ 63.2520(e)(16)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.2490(a) § 63.2490(d)	requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.			
CT-N5-S	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) § 63.2490(a) § 63.2490(d)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) § 63.2490(d)	§ 63.2525(r)	§ 63.2520(e)(16)
CT-N7	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) § 63.2490(a) § 63.2490(d)	For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.	[G]§ 63.104(b) § 63.2490(d)	§ 63.2525(r)	§ 63.2520(e)(16)
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A)	No process drains contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(3) § 115.352(7)	service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(9) [G]§ 115.355	[G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5)	
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						the dripping or exuding of process fluid based on sight, smell, or sound.			
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	No open-ended valves or lines contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B)	No valves contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2)	[G]§ 115.354(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9)	leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8)	No flanges or other connectors contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.			
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(8)	No agitators contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(8)	No agitators contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A)	No compressor seals in hydrogen service with and the hydrogen content can be expected to always	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	exceed 50.0% by volume shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.		§ 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5)	No compressor seals contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(7) § 115.357(1) § 115.357(8)	volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.			
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No compressor seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No pump seals that are equipped with a shaft sealing system that prevents or detects emissions of VOCs from the seal shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery	§ 115.352(1)(B) § 115.352(1)	No pump seals contacting a fluid with TVP less than or	§ 115.354(1) § 115.354(2)	§ 115.352(7) § 115.356	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				& Petrochemicals	§ 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	[G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals contacting a fluid with TVP greater than 0.044 psia (gas/vapor or light liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3)	If the owner or operator elects to use the alternative work practice in §115.358, no component shall be allowed to have a VOC leak, detected as defined in §115.358, for more than 15 days after discovery. This includes any leak detected using the alternative work	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C)	[G]§ 115.358(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 115.352(5) § 115.352(7) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	[G]§ 115.356(4) § 115.356(5)	
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No valves contacting a fluid with TVP less than or equal to 0.044 psia (heavy liquid service) shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Conservation vents or other devices on atmospheric storage tanks that are actuated either by a vacuum or a pressure of no more than 2.5 psig, pressure relief valves equipped with a rupture disk or venting to a control device, components in continuous vacuum service, and valves that are not externally regulated (such as in-line check valves) are exempt from the requirements of this division, except that each pressure relief valve equipped with a rupture disk	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						must comply with §115.352(9) and §115.			
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						operations are exempt from the requirements of this division except §115.356(3)(C) of this title.			
FN	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
FN	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 § 63.2435(a) § 63.2435(b) § 63.2435(b)(1) § 63.2435(b)(1)(i) § 63.2435(b)(1)(ii) § 63.2435(b)(2) § 63.2435(b)(3) § 63.2440(a) § 63.2440(b) § 63.2445(b) § 63.2445(d) § 63.2445(g) § 63.2445(g)(1) § 63.2445(g)(4) § 63.2445(h) § 63.2450(a) § 63.2450(a)(2) § 63.2450(g)(7) § 63.2480(a) § 63.2480(b)	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.2480(b)(3) § 63.2480(b)(5) § 63.2480(b)(6) § 63.2480(e) § 63.2480(e)(1) § 63.2480(e)(2)(ii) [G]§ 63.2480(e)(3) [G]§ 63.2480(e)(4) [G]§ 63.2480(e)(5) [G]§ 63.2480(e)(6) [G]§ 63.2480(e)(7) § 63.2480(f)(1) § 63.2480(f)(2) § 63.2480(f)(3) [G]§ 63.2535(k) § 63.2540				
FN	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a)-Table 6.1.a.ii § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 § 63.2435(a) § 63.2435(b) § 63.2435(b)(1) § 63.2435(b)(1)(i) § 63.2435(b)(1)(ii) § 63.2435(b)(2) § 63.2435(b)(3) § 63.2440(a) § 63.2440(b) § 63.2445(b) § 63.2445(d) § 63.2445(g) § 63.2445(g)(1) § 63.2445(g)(4) § 63.2445(h) § 63.2450(a)	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF	[G]§ 63.180(b) [G]§ 63.180(c) [G]§ 63.180(d) § 63.2480(b)(7) § 63.2480(e)(2)(ii) [G]§ 63.2480(e)(2) [G]§ 63.2480(e)(3) [G]§ 63.2480(e)(4) [G]§ 63.2480(e)(5)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(f) § 63.2445(g)(7) § 63.2525(a) [G]§ 63.2525(b) § 63.2525(f) § 63.2525(j) [G]§ 63.2525(p) [G]§ 63.2525(q) § 63.2525(t) § 63.2525(u)(1) § 63.2525(u)(2) § 63.2525(u)(3)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d) § 63.2445(c) § 63.2445(g)(7) § 63.2450(m)(1) § 63.2450(m)(2) § 63.2450(m)(3) § 63.2515(a) § 63.2515(b)(1) § 63.2515(d) § 63.2520(a) § 63.2520(a)-Table 11.1 § 63.2520(a)-Table 11.2 § 63.2520(a)-Table 11.3 [G]§ 63.2520(b) § 63.2520(d) § 63.2520(d)(1) § 63.2520(d)(2) § 63.2520(d)(2)(i)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.2450(a)(2) § 63.2450(g)(7) § 63.2480(a) § 63.2480(b) § 63.2480(b)(3) § 63.2480(b)(5) § 63.2480(b)(6) § 63.2480(e) § 63.2480(e)(1) § 63.2480(e)(2)(ii) [G]§ 63.2480(e)(3) [G]§ 63.2480(e)(4) [G]§ 63.2480(e)(5) [G]§ 63.2480(e)(6) [G]§ 63.2480(e)(7) § 63.2480(f)(1) § 63.2480(f)(2) § 63.2480(f)(3) [G]§ 63.2535(k) § 63.2540				§ 63.2520(d)(2)(ii) § 63.2520(d)(2)(iii) § 63.2520(d)(2)(v) § 63.2520(d)(2)(vi) § 63.2520(d)(2)(vii) [G]§ 63.2520(d)(4) § 63.2520(e) § 63.2520(e)(1) § 63.2520(e)(10) [G]§ 63.2520(e)(10)(i) § 63.2520(e)(10)(ii)(C) [G]§ 63.2520(e)(14) [G]§ 63.2520(e)(15) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(4) § 63.2520(e)(5)(i) § 63.2520(e)(5)(ii) § 63.2520(e)(5)(ii)(A) § 63.2520(e)(5)(ii)(B) § 63.2520(e)(5)(ii)(D) § 63.2520(e)(5)(iii)(C) § 63.2520(e)(5)(iii)(E) § 63.2520(e)(7) § 63.2520(e)(9)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.162(e) § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h)	Equipment that is in organic HAP service less than 300 hours per year is excluded from the requirements of §§63.163 - 63.174 and §63.178 if it is identified as required in §63.181(j).	[G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(i) § 63.181(j)	[G]§ 63.182(a) [G]§ 63.182(b)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.164 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h)	Standards: Compressors. §63.164(a)-(i)	[G]§ 63.164 [G]§ 63.180(b) [G]§ 63.180(c) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(f)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)

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					[G]§ 63.171				
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.166 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Sampling connection systems. §63.166(a)-(c)	[G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Pumps in heavy liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Valves in heavy liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Connectors in heavy liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Agitators in heavy liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Instrumentation systems. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.169 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Pressure relief devices in liquid service. §63.169(a)-(d)	[G]§ 63.169 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.170 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Surge control vessels and bottom receivers.	[G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.173 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Agitators gas/vapor service and in light liquid service. §63.173(a)-(j).	[G]§ 63.173 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.174 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171	Standards: Connectors in gas/vapor service and in light liquid service. §63.174(a)-(j)	[G]§ 63.174 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.163 § 63.162(a)	Standards: Pumps in light liquid service. §63.163(a)-(j)	[G]§ 63.163 [G]§ 63.176	§ 63.181(a) [G]§ 63.181(b)	[G]§ 63.182(a) [G]§ 63.182(b)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.176		[G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(3) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) § 63.181(h)(8)	§ 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.167 § 63.162(a) § 63.162(c) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175	Standards: Open-ended valves or lines. §63.167(a)-(e).	[G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7) [G]§ 63.181(i)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63H-ALL	112(B) HAPS	40 CFR Part 63, Subpart H	[G]§ 63.168 § 63.162(a) § 63.162(c) [G]§ 63.162(f) [G]§ 63.162(g) § 63.162(h) [G]§ 63.171 [G]§ 63.175	Standards: Valves in gas/vapor service and in light liquid service. §63.168(a)-(j)	[G]§ 63.168 [G]§ 63.175 [G]§ 63.180(b) [G]§ 63.180(d)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(h) [G]§ 63.181(h)(1) [G]§ 63.181(h)(2) § 63.181(h)(4) [G]§ 63.181(h)(5) § 63.181(h)(6) § 63.181(h)(7)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
FN	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63,	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					requirements of 40 CFR Part 63, Subpart YY		Subpart YY		
GRPN5WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)
HCNPRO	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-01158WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)
N-07216	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii)	The permit holder shall comply with the applicable	The permit holder shall comply with	The permit holder shall comply with the	The permit holder shall comply with the

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	requirements of 40 CFR Part 63, Subpart YY	the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-07286	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-07288	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-07654	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4)	Any reactor process or distillation operation vent gas stream with a flow rate less than 0.388 standard cubic feet per minute or a VOC concentration less than 500 ppmv is exempt from the requirements of §115.121(a)(2)(A) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N-07786WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)
N-07786WW	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-12R	EU	R7ICI-01	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N-12R	EU	R7ICI-01	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
N-12R	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	§ 63.7510(g) § 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
N-14	EU	R7ICI-01	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(1)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b)

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							§ 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary	§ 117.345(f)(9)	[G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
N-14	EU	R7ICI-01	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
N-14	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a)

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					§ 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13)	capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	§ 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	§ 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
N-15	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-16	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-17	CD	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
N-17	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	§ 115.126(7)		
N-17	CD	60A-01	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None
N-17	CD	63A-01	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
N-17	EP	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(a)(2) § 63.2450(b) § 63.2450(e)(4) § 63.2450(g)(7) § 63.2450(k)(8) § 63.2450(u) § 63.2450(v) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.2450(g)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2525(h) § 63.2525(p) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1)	§ 63.2450(f)(2)(ii) § 63.2450(g)(5) § 63.2520(d) § 63.2520(e) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3)		§ 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.998(d)(5)	§ 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
N-17	EP	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.2535(h)	For each Group 1continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. Equipment subject to this subpart that are also subject to the provisions of 40 CFR Part 60, Subpart NNN, may elect to apply this subpart to all such equipment.	None	None	None
N-17	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-17WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4)	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148		
N-18	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b)	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None
N-18	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-21	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N-22	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-27210	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-27290	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-27375	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-27381	EU	R5112-01	VOC	30 TAC Chapter	§ 115.112(e)(1)	No person shall place,	§ 115.115(a)	§ 115.118(a)(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				115, Storage of VOCs	§ 115.112(e)(3) § 115.112(e)(3)(C) § 60.18	store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	
N-27691	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-27717	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-27786WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3)	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148		
N-27786WW	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-37200	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-37290	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N-37381	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(e)(1) § 115.112(e)(3) § 115.112(e)(3)(C) § 60.18	No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.	§ 115.115(a) § 115.115(a)(6) § 115.116(a)(2) [G]§ 115.117	§ 115.118(a)(4) § 115.118(a)(4)(F) § 115.118(a)(5) § 115.118(a)(7)	None
N-37486	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-3R	EU	R7ICI-01	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O 2, dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) ** See Periodic Monitoring Summary		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
N-3R	EU	R7ICI-01	NO_X	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO_x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
N-3R	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will	§ 63.7510(g) § 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						conduct this tune-up as a work practice for all regulated emissions.			
N-4	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
N-6	CD	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
N-6	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(a)(2) § 115.121(a)(2) § 115.122(a)(2)(A) § 60.18	Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices).	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
N-6	CD	60A-01	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
N-6	CD	63A-01	Opacity	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5)	None	None
N-6	EP	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(a)(2) § 63.2450(b) § 63.2450(e)(4) § 63.2450(g)(7) § 63.2450(k)(8) § 63.2450(u) § 63.2450(v) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.2450(g)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2525(h) § 63.2525(p) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(g)(5) § 63.2520(d) § 63.2520(e) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) § 63.999(c)(2)(i) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
N-6	EP	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(a)-Table 1.1.a.ii § 63.2535(h)	For each Group 1continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						vent system to a flare. Equipment subject to this subpart that are also subject to the provisions of 40 CFR Part 60, Subpart NNN, may elect to apply this subpart to all such equipment.			
N-6	EU	63YY-01	112(B) HAPS	40 CFR Part 63, Subpart YY	§ 63.1103 § 63.1100(g)(2)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart YY	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart YY
N-6WW	EU	R5140-01	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.147(2) [G]§ 115.142(4) [G]§ 115.148	An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).	§ 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	§ 115.146(1) § 115.146(3) § 115.146(4)	[G]§ 115.142(4)
N-7	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4)	Any reactor process or distillation operation vent gas stream with a flow rate less than 0.388 standard cubic feet per minute or a VOC concentration less than 500 ppmv is exempt from the requirements of	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						§115.121(a)(2)(A) of this title.			
N-8	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4)	Any reactor process or distillation operation vent gas stream with a flow rate less than 0.388 standard cubic feet per minute or a VOC concentration less than 500 ppmv is exempt from the requirements of §115.121(a)(2)(A) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
N-9	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(4)(C) [G]§ 115.122(a)(4)	Any reactor process or distillation operation vent gas stream with a flow rate less than 0.388 standard cubic feet per minute or a VOC concentration less than 500 ppmv is exempt from the requirements of §115.121(a)(2)(A) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(D)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(D)	None
N-N5GEN	EU	R7ICI-01	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						on a rolling 12-month average.			
N-SUB12	EU	R7ICI-01	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
N-SUB12	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table 2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
N-SUB39	EU	R7ICI-01	Exempt	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10),	§ 117.8140(a) § 117.8140(a)(3)	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.			
N3COMP	EU	R7ICI-01	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
N3COMP	EU	60IIII-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a displacement of greater than or equal to 10 liters per	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4211(c) [G]§ 60.4211(f)	cylinder and less than 30 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(e)-(f), 40 CFR 1042.101, and 40 CFR 1042-Appendix I.			
N3COMP	EU	60IIII-01	HC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 600 KW and a displacement of greater than or equal to 15 liters per cylinder and less than 20 liters per cylinder and is a 2014 model year and later must comply with an HC+NOx emission limit of 6.2 g/KW-hr, as stated in 40 CFR 60.4202(f)(2) and 40 CFR 1042.101.	None	None	[G]§ 60.4214(d)
N3COMP	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 600 KW and a displacement of greater than or equal to 15 liters per cylinder and less than 20 liters per cylinder and is a 2014 model year and later must comply with a PM emission limit of 0.14 g/KW-hr, as stated in 40 CFR 60.4202(f)(2) and 40	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						CFR 1042.101.			
N5COMP	EU	R7ICI-01	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
N5COMP	EU	60IIII-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(e)-(f), 40 CFR 1042.101, and 40 CFR 1042-Appendix I.	None	None	[G]§ 60.4214(d)
N5COMP	EU	60IIII-01	HC and NO_X	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2)	Owners and operators of emergency stationary CI ICE, that are not fire pump	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	engines, with a maximum engine power less than 600 KW and a displacement of greater than or equal to 15 liters per cylinder and less than 20 liters per cylinder and is a 2014 model year and later must comply with an HC+NOx emission limit of 6.2 g/KW-hr, as stated in 40 CFR 60.4202(f)(2) and 40 CFR 1042.101.			
N5COMP	EU	60IIII-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1042.101 § 60.4202(f)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power less than 600 KW and a displacement of greater than or equal to 15 liters per cylinder and less than 20 liters per cylinder and is a 2014 model year and later must comply with a PM emission limit of 0.14 g/KW-hr, as stated in 40 CFR 60.4202(f)(2) and 40 CFR 1042.101.	None	None	[G]§ 60.4214(d)

Additional Monitoring Requirements

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: N-12R	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-01
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Maximum CO Concentration = 400 ppm by volume at 3.0% O2, dry basis	
Periodic Monitoring Text: The permit holder must conduct a tune-up of the process heater annually as specified in 40 CFR 63.7540(a)(10)(i)-(v). The CO and oxygen concentration in the effluent stream shall be measured and recorded. Measurement may be taken using a portable CO analyzer. The portable CO analyzer (or other monitoring instrumentation) shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data where the measured CO concentration exceeds the 400 ppm by volume measured at 3.0% O2 on a dry basis shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: N-14	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-01
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Maximum CO Concentration = 400 ppm by volume at 3.0% O2, dry basis	
Periodic Monitoring Text: The permit holder must conduct a tune-up of the process heater annually as specified in 40 CFR 63.7540(a)(10)(i)-(v). The CO and oxygen concentration in the effluent stream shall be measured and recorded. Measurement may be taken using a portable CO analyzer. The portable CO analyzer (or other monitoring instrumentation) shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data where the measured CO concentration exceeds the 400 ppm by volume measured at 3.0% O2 on a dry basis shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: N-3R	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7ICI-01
Pollutant: CO	Main Standard: § 117.310(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Annually	
Averaging Period: N/A	
Deviation Limit: Maximum CO Concentration = 400 ppm by volume at 3.0% O2, dry basis	
Periodic Monitoring Text: The permit holder must conduct a tune-up of the process heater annually as specified in 40 CFR 63.7540(a)(10)(i)-(v). The CO and oxygen concentration in the effluent stream shall be measured and recorded. Measurement may be taken using a portable CO analyzer. The portable CO analyzer (or other monitoring instrumentation) shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures. Any monitoring data where the measured CO concentration exceeds the 400 ppm by volume measured at 3.0% O2 on a dry basis shall be considered and reported as a deviation.	

Permit Shield

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
91052	N/A	30 TAC Chapter 115, Storage of VOCs	Vessel does not store volatile organic compounds.
91052	N/A	40 CFR Part 60, Subpart Kb	The tank does not store a volatile organic liquid.
CT-N5-N	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals used after 09/08/1994.
CT-N5-S	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals used after 09/08/1994.
CT-N7	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals used after 09/08/1994.
DIESEL TANK 1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
DIESEL TANK 1	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
DIESEL TANK 2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
DIESEL TANK 2	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
DIESEL TANK 3	N/A	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
DIESEL TANK 3	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
FN	N/A	40 CFR Part 60, Subpart VV	This fugitive emission unit is not an affected facility because it was constructed before 01/05/1981.
GRPN3WW	D-7652WW, N-07230WW, N-07288WW1, N-07288WW2, N-07573WW1, N-07573WW2, N3SUMPWW	30 TAC Chapter 115, Industrial Wastewater	This is not an affected VOC wastewater stream.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPN7WW	N-37375WW1, N-37375WW2, N7SUMPWW	30 TAC Chapter 115, Industrial Wastewater	This is not an affected VOC wastewater stream.
N-01376	N/A	30 TAC Chapter 115, Storage of VOCs	Vessel does not store volatile organic compounds
N-01376	N/A	40 CFR Part 60, Subpart Kb	The tank does not store volatile organic liquid
N-07170	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-07170	N/A	40 CFR Part 60, Subpart RRR	Date of construction/modification/reconstruction before 06/29/1990.
N-07190	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-07190	N/A	40 CFR Part 60, Subpart RRR	Does not produce any of the chemicals listed in 40 CFR § 60.707.
N-07340	N/A	40 CFR Part 60, Subpart NNN	Unit is subject to both 40 CFR Part 63, Subpart YY & 40 CFR Part 60, Subpart NNN and is required only to comply with MACT YY. N-07340 vents through N6VENT_HCN & N17VENTHCN, and MACT YY requirements are listed under those emission units.
N-07573	N/A	40 CFR Part 60, Subpart RRR	Date of construction/modification before 06/29/1990.
N-07573	N/A	40 CFR Part 63, Subpart FFFF	The vent from this operation is not a batch process vent because it has a total uncontrolled HAP emissions that is less than 200 lb/yr.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
N-07786WW	N/A	40 CFR Part 63, Subpart FFFF	This storage tank is a wastewater tank and is not used to store liquids that contain organic HAP.
N-10	N/A	30 TAC Chapter 115, Storage of VOCs	Storage capacity is less than 1,000 gallons.
N-10	N/A	40 CFR Part 60, Subpart K	The storage vessel was constructed before 06/11/1973.
N-15	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
N-16	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
N-18	N/A	40 CFR Part 63, Subpart FFFF	This storage tank is a wastewater tank and is not used to store liquids that contain organic HAP.
N-19	N/A	30 TAC Chapter 115, Storage of VOCs	Vessel does not store volatile organic compounds
N-19	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
N-21	N/A	40 CFR Part 60, Subpart Kb	Storage vessel constructed after July 23, 1984 and design capacity less than 19,800 gallons.
N-21	N/A	40 CFR Part 63, Subpart FFFF	Storage tank contains no organic HAPs or hydrogen halide/halogen HAPs.
N-22	N/A	40 CFR Part 60, Subpart Kb	Storage vessel constructed after July 23, 1984 and design capacity less than 19,800 gallons.
N-22	N/A	40 CFR Part 63, Subpart FFFF	Storage tank contains no organic HAPs or hydrogen halide/halogen HAPs.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
N-27170	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-27170	N/A	40 CFR Part 60, Subpart RRR	Does not produce any of the chemicals listed in 40 CFR § 60.707.
N-27190	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-27190	N/A	40 CFR Part 60, Subpart RRR	Does not produce any of the chemicals listed in 40 CFR § 60.707.
N-27340	N/A	40 CFR Part 60, Subpart NNN	Unit is subject to both 40 CFR Part 63, Subpart YY & 40 CFR Part 60, Subpart NNN and is required only to comply with MACT YY. N-27340 vents through N6VENT_HCN & N17VENTHCN, and MACT YY requirements are listed under those emission units.
N-27381	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
N-27580	N/A	40 CFR Part 60, Subpart RRR	Date of construction/modification before 06/29/1990.
N-27580	N/A	40 CFR Part 63, Subpart FFFF	The vent from this operation is not a batch process vent because it has a total uncontrolled HAP emissions that is less than 200 lb/yr.
N-27691	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is greater than or equal to 75 cubic meters but less than 151 cubic meters and stores VOL with a maximum true vapor pressure less than 15.0 kPa.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
N-27786WW	N/A	40 CFR Part 63, Subpart FFFF	This storage tank is a wastewater tank and is not used to store liquids that contain organic HAP.
N-27881	N/A	40 CFR Part 60, Subpart NNN	Does not produce any of the chemicals listed in 40 CFR § 60.667.
N-37170	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-37170	N/A	40 CFR Part 60, Subpart RRR	Does not produce any of the chemicals listed in 40 CFR § 60.707.
N-37190	N/A	40 CFR Part 60, Subpart III	Affected facility does not meet the definition of an air oxidation reactor and does not produce any of the chemicals listed in 60.617.
N-37190	N/A	40 CFR Part 60, Subpart RRR	Does not produce any of the chemicals listed in 40 CFR § 60.707.
N-37340	N/A	40 CFR Part 60, Subpart NNN	Unit is subject to both 40 CFR Part 63, Subpart YY & 40 CFR Part 60, Subpart NNN and is required only to comply with MACT YY. N-37340 vents through N6VENT_HCN & N17VENTHCN, and MACT YY requirements are listed under those emission units.
N-37381	N/A	40 CFR Part 60, Subpart Kb	The design capacity of the storage vessel is less than 19,800 gallons.
N-37486	N/A	40 CFR Part 63, Subpart FFFF	This storage tank is a wastewater tank and is not used to store liquids that contain organic HAP.
N-4	N/A	40 CFR Part 60, Subpart Kb	The tank does not store a volatile organic liquid.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			Also, the design capacity of the storage vessel is less than 19,800 gallons.
N-DEGR	N/A	30 TAC Chapter 115, Degreasing Processes	The degreasing solvent has a true vapor pressure less than 0.6 psia at 100 °F and the drain area is less than 16 inches squared. The degreasing waste solvent is disposed in enclosed containers.
N-N5GEN	N/A	40 CFR Part 60, Subpart IIII	Emergency CI ICE was manufactured prior to 04/01/2006 and is not a fire pump, and not modified or reconstructed after 07/11/2005.
N-N5GEN	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 hp that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year.
N-SUB12	N/A	40 CFR Part 60, Subpart IIII	Emergency CI ICE was manufactured prior to 04/01/2006 and is not a fire pump, and not modified or reconstructed after 07/11/2005.
N-SUB39	N/A	40 CFR Part 60, Subpart IIII	Emergency CI ICE was manufactured prior to 04/01/2006 and is not a fire pump, and not modified or reconstructed after 07/11/2005.
N-SUB39	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 hp that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year.
N17VENTAOG	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent gas stream does not contain VOC.
N3COMP	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 hp that does not operate or is not contractually obligated to be available

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			for more than 15 hours per calendar year.
N6VENT_AOG	N/A	30 TAC Chapter 115, Vent Gas Controls	Vent gas stream does not contain VOC.
T-07520	N/A	30 TAC Chapter 115, Storage of VOCs	Vessel does not store volatile organic compounds.
T-07520	N/A	40 CFR Part 60, Subpart Kb	The tank does not store a volatile organic liquid.
T-96662	N/A	30 TAC Chapter 115, Storage of VOCs	Vessel does not store volatile organic compounds.
T-96662	N/A	40 CFR Part 60, Subpart K	The storage vessel was constructed before 06/11/1973.
T-96662	N/A	40 CFR Part 63, Subpart FFFF	This storage tank is not used to store liquids that contain organic HAP and/or hydrogen halide and halogen HAP.

New Source Review Authorization References

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX828M1	Issuance Date: 04/28/2023
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 723	Issuance Date: 04/28/2023
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
91052	TANK 91052 - SULFURIC ACID TANK	106.472/09/04/2000
ACHFILTRWW	ACH FILTERS WW	723, PSDTX828M1
ACHPRO	ACH PROCESS	723, PSDTX828M1, 106.263/11/01/2001
CT-1	CT-1 COOLING TOWER	723, PSDTX828M1
CT-N5-N	N-5 COOLING TOWER NORTH	723, PSDTX828M1
CT-N5-S	N-5 COOLING TOWER SOUTH	723, PSDTX828M1
CT-N7	N-7 COOLING TOWER	723, PSDTX828M1
D-7652WW	CAN VENT SEAL TRAP WW	723, PSDTX828M1
DIESEL TANK 1	N3 SUBSTATION 12 FUEL DISPENSING TANK	106.412/09/04/2000
DIESEL TANK 2	N5 SUBSTATION 39 FUEL DISPENSING TANK	106.412/09/04/2000
DIESEL TANK 3	N5 BUILDING 425 FUEL DISPENSING TANK	106.412/09/04/2000
FN	N-AREA FUGITIVES	723, PSDTX828M1, 106.261/11/01/2003 [142365, 156311, 160782, 164566], 106.262/11/01/2003 [156311, 160782, 164566,]
HCNPRO	HCN PROCESS	723, PSDTX828M1, 106.263/11/01/2001
N-01008WW	N5CONDENSATE FLASH TANK HOTWELL	723, PSDTX828M1
N-01158WW	ACETONE RECOVERY COLUMN WW	723, PSDTX828M1
N-01376	N-5 SULFURIC ACID TANK	106.472/09/04/2000
N-01471WW	COND. WW N-7 DILUTION STACK	723, PSDTX828M1
N-01731WW	N5 CONDENSATE FLASH TANK HOTWELL	723, PSDTX828M1
N-07170	N-3 CONVERTER	723, PSDTX828M1

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
N-07190	N-4 HCN CONVERTER	723, PSDTX828M1
N-07216	N-3 NH3 ABSORBER	723, PSDTX828M1
N-07230WW	CONDENSATION WW N8 DILUTION STACK	723, PSDTX828M1
N-07286	N-3 HCN ABSORBER	723, PSDTX828M1
N-07288	N3 ABSORBER FEED WATER TANK	723, PSDTX828M1
N-07288WW1	ABSORBER FEED WATER TANK DRAIN	723, PSDTX828M1
N-07288WW2	ABSORBER FEED WATER TANK OVERFLOW	723, PSDTX828M1
N-07340	N-3/4 HCN DISTILLATION COLUMN	723, PSDTX828M1
N-07573	N-3 DECON KETTLE REACTOR	723, PSDTX828M1
N-07573WW1	ACN DECON KETTLE WW	723, PSDTX828M1
N-07573WW2	ACN DECON KETTLE SAMPLING POT WW	723, PSDTX828M1
N-07654	N3-4 SAMPLE DRAIN	723, PSDTX828M1
N-07786WW	N3/4 WW TANK 07786	723, PSDTX828M1
N-10	N-3/4 ALCOHOL TANK	723, PSDTX828M1
N-12R	N-3/4 PREHEATER	723, PSDTX828M1
N-14	N-5/6 PREHEATER	723, PSDTX828M1
N-15	N7-8 ANITFOAM TANK	723, PSDTX828M1
N-16	N-5 8-10 ALOCHOL TANK	723, PSDTX828M1
N-17	N-5 FLARE	723, PSDTX828M1
N-17WW	N17 FLARE KNOCK OUT WW	723, PSDTX828M1
N-18	N-5 TANK	723, PSDTX828M1

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
N-19	ACS BETZ GCP 9307 TANK	723, PSDTX828M1
N-21	N-27387 N-5 SHORTSTOP TANK	106.261/09/04/2000, 106.478/09/04/2000 [142365]
N-22	N-38387 N-7 SHORTSTOP TANK	106.261/09/04/2000, 106.478/09/04/2000 [142365]
N-27170	N-5 HCN CONVERTER	723, PSDTX828M1
N-27190	N-6 HCN CONVERTER	723, PSDTX828M1
N-27210	N-5 NH3 ABSORBER	723, PSDTX828M1
N-27290	N-5 HCN ABSORBER	723, PSDTX828M1
N-27340	N-5/6 HCN DISTILLATION COLUMN	723, PSDTX828M1
N-27375	N5 ABSORBER FEED WATER TANK	723, PSDTX828M1
N-27375WW	ABSORBER FEED WATER TANK DRAIN	723, PSDTX828M1
N-27381	N5-6 CONC. HCN TANK	723, PSDTX828M1
N-27569WW	ACH WW TANK OVERFLOW	723, PSDTX828M1
N-27580	N-5 DECON KETTLE REACTOR	723, PSDTX828M1
N-27580WW	N5 DECONTAMINATION KETTLE WW	723, PSDTX828M1
N-27646WW	ACH FILTER (27646) DRAIN	723, PSDTX828M1
N-27685WW	FIRST STAGE JET HOTWELL WW	723, PSDTX828M1
N-27691	N5-6 ACH PRODUCT R/D	723, PSDTX828M1
N-27717	AMMONIA CYANIDE STRIPPER	723, PSDTX828M1
N-27786WW	WASTEWATER TANK 27786	723, PSDTX828M1
N-27881	NH3 DISTILLATION COLUMN	723, PSDTX828M1
N-37170	N-7 CONVERTER	723, PSDTX828M1

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
N-37190	N-8 CONVERTER REACTOR	723, PSDTX828M1
N-37200	N-7 NH3 ABSORBER	723, PSDTX828M1
N-37290	N-7 HCN ABSORBER	723, PSDTX828M1
N-37340	N-7/8 DIST. COL	723, PSDTX828M1
N-37340WW	HCN DISTILLATION COLUMN WW	723, PSDTX828M1
N-37375WW1	ABSORBER FEED WATER TANK DRAIN	723, PSDTX828M1
N-37375WW2	ABSORBER FEED WATER TANK OVERFLOW	723, PSDTX828M1
N-37381	N3-7 CONC. HCN TANK	723, PSDTX828M1
N-37486	WASTEWATER TANK 37486	723, PSDTX828M1
N-3R	N-7/8 PREHEATER	723, PSDTX828M1, 106.261/11/01/2003 [160008], 106.264/09/04/2000
N-4	N-7/8 FEED H2O	723, PSDTX828M1
N-6	N3/7 FLARE	723, PSDTX828M1
N-6WW	N6 FLARE KNOCKOUT WW	723, PSDTX828M1
N-7	SAFETY VENT STACK N-5-6 AREA	723, PSDTX828M1
N-8	N-AREA SAFETY VENT STACK FOR AREA 3-4	723, PSDTX828M1
N-9	N-AREA SAFETY VENT GAS FROM FAN	723, PSDTX828M1
N-DEGR	N-AREA DEGREASER	723, PSDTX828M1
N-N5GEN	EMERGENCY GENERATOR (N5)	106.511/09/04/2000
N-SUB12	EMERGENCY GENERATOR (SUB12)	106.511/09/04/2000
N-SUB39	EMERGENCY GENERATOR (SUB39)	106.511/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
N17VENTAOG	N17 AOG VENT STREAM	723, PSDTX828M1
N3COMP	N3 AIR COMPRESSORS	723, PSDTX828M1, 106.511/09/04/2000
N3SUMPWW	STORM/SPILL WW TANK FARM SUMP N3-4 UNIT	723, PSDTX828M1
N5COMP	NS AIR COMPRESSOR	723, PSDTX828M1, 106.511/09/04/2000
N5SUMPWW	STORM/SPILL WW TANK FARM SUMPS N5-6 UNIT	723, PSDTX828M1
N6VENT_AOG	N6 AOG VENT STREAM	723, PSDTX828M1
N7SUMPWW	STORM/SPILL WW FARM SUMPS N7-8 UNITS	723, PSDTX828M1
SAMPLEWW	WW SAMPLING STREAMS	723, PSDTX828M1
T-07520	TANK 07520 - SULFURIC ACID TANK	106.472/09/04/2000
T-96662	MC ACETONE DOCK TANK	723, PSDTX828M1

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Alternative Requirement

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 13, 2020

MS EMMA LANIER
ENVIRONMENTAL SPECIALIST
ROHM AND HAAS TEXAS INCORPORATED
PO BOX 1000
DEER PARK TX 77536-1000

Re: Alternative Method of Compliance (AMOC) No. 152
Utilities Boiler Vent Gas from N-area Unit in HCN Production Facility
Alternate Compliance with MACT YY and FFFF for NSPS NNN
Regulated Entity Number: RN100223205
Customer Reference Number: CN605605831
Associated Permit Numbers: 723, 2165 and O2233

Dear Ms Lanier:

This correspondence corrects the previous letter on this subject dated January 29, 2020 in response to Rohm and Haas Texas Incorporated's (R&H) November 15, 2019 request for an alternate compliance method.

This AMOC is for certain absorbers (Permit No. 723) in the Hydrogen Cyanide (HCN) Production Facility at the N-area Unit and associated boilers used for control (Permit No. 2165) to comply with 40 CFR 60 Subpart NNN Standards of Performance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations (NSPS NNN) by following the requirements of 40 CFR 63, National Emission Standards for Hazardous Air Pollutants for Source Categories Subpart YY: Generic Maximum Achievable Control Technology Standards (MACT YY).

In a recent permit amendment, the company opted to simplify ongoing recordkeeping associated with certain distillation units and voluntarily triggered applicability of NSPS NNN when the absorbers are vented to a boiler for control. To further ensure the most stringent regulatory requirements are met, R&H represented that all VOC emissions are treated as HAPs. The specific units covered by this AMOC include the following when controlled through Boiler-4 (EPN BH2-4):

- N-3 Ammonia (NH_3) Absorber (Unit ID N-07216);
- N-3 HCN Absorber (Unit N-07286);
- N-5 NH_3 Absorber (Unit N-27210);
- N-5 HCN Absorber (Unit N-27290);
- N-7 NH_3 Absorber (Unit N-37200); and
- N-7 HCN Absorber (Unit N-37290).

While NSPS NNN allows for compliance with MACT YY for certain fuel type definitions (when the waste streams are sent to the flare for control), this overlap provision does not apply in the situations where the waste gas is used as a fuel for boilers and it is these situations which were evaluated for this AMOC and allow these units to comply with the process vent requirements of MACT YY under the overlap provisions in §63.1100(g)(2)(ii).

Re: Permit Numbers: 723, 2165 and O2233

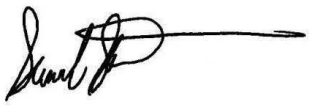
The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. The TCEQ has been delegated authority to enforce the above cited standards and is authorized to approve this AMOC. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC. By copy of this letter we are informing the Environmental Protection Agency, Region 6, of this decision as required by TCEQ's delegation of authority.

This AMOC approval may supersede certain requirements or representations in Permit Nos. 723 or 2165. To ensure effective and consistent enforceability, we request that R&H incorporate this AMOC into the permits through submittal of an alteration no later than 90 days after this approval.

This approval may also change applicable requirements for the site, which are identified in the site operating permit (SOP) O2233. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239- 1276 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC- 163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Samuel Short, Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Director, Harris County, Pollution Control Services,
Pasadena Air Section Manager, Region 12 - Houston
Rebecca Partee, Manager, Chemical New Source Review Permits Section, Air Permits Division, OA: MC-163
Jesse Chacon, Operating Permits Section, Air Permits Division, OA: MC-163
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection Agency, Region 6, Dallas

Project Number: 309132

Appendix A

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
SIP ..... state implementation plan
SO_2 ..... sulfur dioxide
TCEQ ..... Texas Commission on Environmental Quality
TSP ..... total suspended particulate
TVP ..... true vapor pressure
U.S.C. ..... United States Code
VOC ..... volatile organic compound

Appendix B

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
CT-N5-N	N-5 Cooling Tower North	VOC	0.30	1.32	5, 14, 15	5, 14, 15, 25	5, 14
		PM	0.14	0.62			
		PM_{10}	0.08	0.36			
		$PM_{2.5}$	<0.01	<0.01			
CT-N5-S	N-5 Cooling Tower South	VOC	0.25	1.10	5, 14, 15	5, 14, 15, 25	5, 14
		PM	0.12	0.51			
		PM_{10}	0.07	0.30			
		$PM_{2.5}$	<0.01	<0.01			
CT-N7	N-7 Cooling Tower	VOC	1.50	6.58	5, 14, 15	5, 14, 15, 25	5, 14
		PM	0.70	3.08			
		PM_{10}	0.41	1.79			
		$PM_{2.5}$	<0.01	<0.01			
CT-1	Cooling Tower	VOC	0.36	1.58	5, 14, 15	5, 14, 15, 25	5, 14

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	#1	PM	0.31	1.34			
		PM_{10}	0.21	0.93			
		$PM_{2.5}$	<0.01	<0.01			
N-3R	N-7/8 Preheaters	NO_x	0.34	1.37	28	25, 27, 28	28
		CO	0.51	2.03	28	28	28
		VOC	0.07	0.30	28	25, 27, 28	28
		PM	0.10	0.41	4, 28	25, 28	28
		PM_{10}	0.10	0.41	4, 28	25, 28	28
		$PM_{2.5}$	0.10	0.41	4	25	
		SO_2	<0.01	0.01			
N-4	N-7/8 Absorber Feed Water Tank	HCN	0.01	0.01	13	13, 25	
		NH_3	2.54	0.01	13	13, 25	

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
N-6	N-3/7 Feed and Exit Gas Flare	NO_x	130.65	7.78	11, 28	7, 11, 25, 27, 28	12, 28
		CO	699.09	136.39	11, 28	7, 11, 25, 28	12, 28
		VOC (other)	0.19	0.01	5, 11, 28	5, 7, 11, 25, 27, 28	5, 12, 28
		CH_3CN	0.04	0.11	5, 11	5, 7, 11, 25, 27	5, 12
		SO_2	0.11	0.01	11	7, 11, 25	12
		HCN	28.40	1.94	11	7, 11, 25	12
		NH_3	31.88	0.66	11	7, 11, 25	12
		Acetone	0.19	0.84	11	7, 11, 25	12
N-7	N-5/6 Safety Vent Stack	VOC (6)	0.01	0.01	16, 28	16, 25, 28	28
		HCN	1.35	0.03	16	16, 25	
		NH_3	1.46	0.15	16	16, 25	
N-8	N-3/4 Safety Vent Stack	VOC (6)	0.01	0.01	16, 28	16, 25, 28	28
		HCN	1.43	0.03	16	16, 25	

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		NH_3	1.46	0.16	16	16, 25	
N-9	N-7/8 SVG Fan	HCN	0.07	0.21		25	
		NH_3	0.01	0.01		25	
N-12R	N-3/4 Preheaters	NO_x	0.34	1.37	28	25, 27, 28	28
		CO	0.51	2.03	28	28	28
		VOC	0.07	0.30	28	25, 27, 28	28
		PM	0.10	0.41	4, 28	25, 28	28
		PM_{10}	0.10	0.41	4, 28	25, 28	28
		$PM_{2.5}$	0.10	0.41	4, 28	25, 28	28
		SO_2	<0.01	0.01			
		SO_2	0.01	0.01			
N-14	N-5/6 Preheater	NO_x	1.83	8.02	28	25, 27, 28	28
		CO	0.02	0.07	28	28	28

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		VOC	0.09	0.38	28	25, 27, 28	28
		PM	0.12	0.52	4, 28	25, 28	28
		PM_{10}	0.12	0.52	4, 28	25, 28	28
		$PM_{2.5}$	0.12	0.52	4, 28	25, 28	28
		SO_2	0.01	0.01			
N-17	N-5/6 Flare	NO_x	152.13	48.41	11, 28	7, 11, 17, 24, 25, 27, 28	12, 28
		CO	450.52	235.34	11, 28	7, 11, 17, 24, 25, 28	12, 28
		VOC (other)	0.10	0.01	5, 11, 28	5, 7, 11, 17, 24, 2625 27, 28	5, 12, 28
		CH_3CN	1.25	2.01	5, 11	5, 7, 11, 17, 2524 25, 27	5, 12
		CH_2CHCN	0.78	1.20	5, 11	5, 7, 11, 17, 24, 25, 27	5, 12
		SO_2	0.08	0.03	11	7, 11, 17, 24, 25	12
		HCN	24.01	17.04	11	7, 11, 17, 24, 25	12

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		NH_3	171.71	49.14	11	7, 11, 17, 24, 25	12
		Acetone	4.17	7.33	11	7, 11, 17, 24, 25	12
N-18	Wastewater Collection Tank No. 91357	HCN	0.03	0.01	13	13, 25	
N-19	N-5 Acetone Day Tank	Acetone	0.55	1.03	13, 21	13, 21, 24, 25	
T-96662	Acetone Dock Tank	Acetone	1.25	2.40	13, 21	13, 21, 24, 25	
FN	Fugitives (5)	HCN	0.43	1.83	5, 8, 20	5, 8, 20, 25, 25	5
		NH_3	0.32	0.79	9, 20	9, 20, 2524 25	
		ACH	0.44	1.93	5, 8, 20	5, 8, 20, 24, 25	5
		Acetone	0.53	2.26	20	20, 24, 25	
		CH_3CN	0.15	0.62	5, 8, 20	5, 8, 20, 24, 25	5
		CH_2CHCN	0.07	0.31	5, 8, 20	5, 8, 20, 24, 25	5
		H_2SO_4	0.01	0.02			

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		CO	0.04	0.17	28	28	28
TK-FUG	Tank N-96662 Fugitives (5)	Acetone	0.04	0.18		25	
N_MSSTK	Fixed Roof Tank MSS	Isodecyl Alcohol	0.11	0.01	19	17, 19, 22, 24, 25	
		HCN	0.92	0.01	19	17, 19, 22, 24, 25	
N_MSSFR	Floating Roof Tank MSS	Acetone	68.80	0.25	19, 21	17, 19, 21, 24, 25	
N_MSSPH	Pump and Heat Exchanger MSS	HCN	0.17	0.01	19	17, 19, 24, 25	
		NH_3	0.21	0.01	19	17, 19, 24, 25	
		ACH	0.22	0.02	19	17, 19, 24, 25	
		Acetone	0.19	0.01	19	17, 19, 24, 25	
		VOC (other)	0.05	0.01	19	17, 19, 24, 25	
N_DEGAS	Equipment Degassing	HCN	0.35	0.01	18, 19	17, 18, 19, 24, 25	
		NH_3	1.50	0.01	18, 19	17, 18, 19, 24, 25	

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lbs/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		ACH	0.01	0.01	18, 19	17, 18, 19, 24, 25	
		Acetone	0.28	0.01	18, 19	17, 18, 19, 24, 25	
		VOC (other)	0.11	0.01	18, 19	17, 18, 19, 24, 25	
NMISCMSS	Miscellaneous MSS Activities	HCN	0.12	0.01	19	17, 19, 24, 25	
		NH_3	0.06	0.01	19	17, 19, 24, 25	
		ACH	0.22	0.01	19	17, 19, 24, 25	
		Acetone	0.29	0.01	19	17, 19, 24, 25	
		H_2SO_4	0.11	0.01	19	17, 19, 24, 25	
		VOC (other)	0.16	0.01	19	17, 19, 24, 25	
N-3 MSS	N-7/8 Preheaters MSS	CO	2.64	0.02	19	17, 19, 24, 25	
		NO_x	0.21	0.01	19	17, 19, 24, 25	
		PM	0.03	0.01	19	17, 19, 24, 25	
		PM_{10}	0.03	0.01	19	17, 19, 24, 25	
		$PM_{2.5}$	0.03	0.01	19	17, 19, 24, 25	

Major NSR Summary Table

Permit Numbers 723 and PSDTX828M1					Issuance Date: April 28, 2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		SO_2	0.01	0.01	19	17, 19, 24, 25	
		VOC	0.02	0.01	19	17, 19, 24, 25	
N-12MSS	N-3/4 Preheaters MSS	CO	2.64	0.02	19	17, 19, 24, 25	
		NO_x	0.21	0.01	19	17, 19, 24, 25	
		PM	0.03	0.01	19	17, 19, 24, 25	
		PM_{10}	0.03	0.01	19	17, 19, 24, 25	
		$PM_{2.5}$	0.03	0.01	19	17, 19, 24, 25	
		SO_2	0.01	0.01	19	17, 19, 24, 25	
		VOC	0.02	0.01	19	17, 19, 24, 25	

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Rohm and Haas Texas Incorporated
Authorizing the Construction and Operation of
Rohm and Haas Texas Deer Park Plant
Located at **Deer Park, Harris County, Texas**
Latitude 29.731388 Longitude -95.103055

Permit: 723 and PSDTX828M1

Amendment Date: April 28, 2023

Expiration Date: November 5, 2025

Erin E. Chancellor
For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
$\mu g/m^3$ = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Numbers 723 and PSDTX828M1

Emission Standards and Operational Parameters

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in this permit. **(03/05)**

2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions. **(03/05)**

3. The N-3/4 and N-7/8 preheaters shall operate with the following limits: **(06/17)**

   A. The maximum heat input for each preheater shall not exceed 13.77 MMBTU/hr.

   B. During normal operations, each preheater shall comply with the following emission limits:

      NO_X: 25.50 pounds per million standard cubic foot (lbs/MMSCF) (equivalent to 0.025 lb/MMBTU, HHV)

      CO: 37.74 lbs/MMSCF (equivalent to 0.04 lb/MMBTU, HHV)

      Compliance with the above emission limits shall be achieved by operating the preheaters in accordance with the manufacturer's specifications.

4. Preheaters (EPNs N-3R, N-12R, N-12, N-13 and N-14) shall operate with the following requirements. **(05/19)**

   A. Fuel for each preheater shall be pipeline quality sweet natural gas containing no more than 0.25 grain of hydrogen sulfide (H_2S) per 100 dry standard cubic feet (dscf) and 5 grains of total sulfur per 100 dscf.

   B. Opacity of emissions from the Preheaters shall not exceed 5 percent averaged over a six-minute period.

Federal Program Requirements

5. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60). These requirements may be superseded by the National Emission Standards for Hazardous Air Pollutants (NESHAPS) in Special Condition No. 6 after the applicable compliance dates. **(04/23)**

   A. Subpart A, General Provisions.

   B. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984.

C. Subpart NNN, Standards of Performance for VOC Emissions from SOCMI Distillation Operations.

D. Subpart VVa, Standards of Performance for Equipment Leaks of VOC in the SOCMI for which Construction, Reconstruction, or Modification Commenced after November 7, 2006.

6. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63. **(04/23)**

A. Subpart A, General Provisions.

B. Subpart H, National Emission Standards for Hazardous Air Pollutants for Equipment Leaks

C. Subpart UU, National Emission Standards for Equipment Leaks – Control Level 2 Standards

D. Subpart YY, National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards.

E. Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

F. Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

G. Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

Production Limits

7. The production of acetone cyanohydrin at the N-Area shall be limited to the production rates specified in the permit application WDP response page F-2 submitted on October 3, 2019. Records shall be kept of monthly and annual production rates. **(11/19)**

Fugitive Monitoring

8. Piping, Valves, Connectors, Pumps, and Compressors in contact with Volatile Organic Compound (VOC) - 28MID **(06/17)**

Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment:

A. The requirements of paragraphs F and G conditions shall not apply (1) where the volatile organic compounds (VOC) have an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68°F or, (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made available upon request.

The exempted components may be identified by one or more of the following methods:

- piping and instrumentation diagram (PID);
- a written or electronic database or electronic file;

- color coding;
- a form of weatherproof identification; or
- designation of exempted process unit boundaries.

B. Construction of new and reworked piping, valves, pump systems, agitators, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.

C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.

D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in Paragraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified, may instead be monitored annually.

E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period:

(1) a cap, blind flange, plug, or second valve must be installed on the line or valve; or

(2) the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results are recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open-ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program.

Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

An approved gas analyzer shall conform to requirements listed in Method 21 of Title 40 Code of Federal Regulations (CFR) Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

G. All new and replacement pumps and compressors shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump and compressor and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

H. Damaged or leaking valves, connectors, compressor seals, pump seals and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily

emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shut down as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shut down or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

I. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.

J. The percent of valves leaking used in paragraph I shall be determined using the following formula:

$$\frac{V_l + V_s}{V_t} \times 100 = V_p$$

Where:

V_l = the number of valves found leaking by the end of the monitoring period,

either by Method 21 or sight, sound, and smell.

V_s = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

V_t = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe-to-monitor valves.

V_p = the percentage of leaking valves for the monitoring period.

K. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.

Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard, or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

9. Piping, Valves, Pumps, and Compressors in contact with NH_3 - 28 AVO

Except as may be provided for in the Special Conditions of this permit, the following requirements apply to the above-referenced equipment:

A. Audio, visual, and olfactory checks for leaks within the operating area shall be made every four hours.

B. Immediately, but no later than one hour upon detection of a leak, plant personnel shall take at least one of the following actions;

(1) Isolate the leak

(2) Commence repair or replacement of the leaking component

(3) Use a leak collection/containment system to prevent the leak until repair or replacement can be made if immediate repair is not possible.

Date and time of each inspection shall be noted in the operator's log or equivalent. Records shall be maintained at the plant site of all repairs and replacements made due to leaks. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ) upon request. **(06/17)**

Emission Control by Flares

10. Emissions from Tank Nos. 410-01-27950, 410-02-07223, 410-04-27217, 410-03-37207, 410-05-27938, 410-05-27936, and 410-05-27933 shall be flared at no less than 98 percent combustion efficiency. **(04/00)**

11. Flares shall be designed and operated in accordance with the following requirements:

A. The combined natural gas, absorber off-gas (AOG), and waste stream to the flare tip shall meet the 40 CFR § 60.18 specifications for minimum net heating value and maximum tip velocity under normal, upset, and maintenance flow conditions. Compliance with this condition shall be demonstrated by the monitoring required in section D below. Flare testing per 40 CFR § 60.18(f) shall be performed with the flare operating with AOG (no natural gas) within 60 days after initial operation in that mode. (This testing was performed on February 24, 2000, for N-6 Flare and on February 24, 2001, for N-17 Flare.) Additional testing may be requested by the TCEQ Regional Office to demonstrate compliance with this condition.

B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications. **(11/19)**

C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours.

D. The holder of this permit shall operate continuous flow meters as necessary to provide a record of the total vent stream flow to the flare. The average hourly values of the flow shall be recorded.

The holder of this permit shall continually monitor the AOG stream volumetric flow rate to the flare. The hydrogen content of the total vent stream to the flare shall be determined based on the analysis of the converter exit gas streams. The natural gas flow rate shall also be monitored while in use. The average hourly values of the flows and calculated hydrogen content shall be recorded.

The holder of this permit will still be in compliance with Special Condition No. 11.A if the requirements of 40 CFR § 60.18 for BTU or hydrogen content on an hourly average basis are not met due solely to switching operating modes. The dates and times of such mode changes shall be recorded. **(03/08)**

The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12-month period. **(11/19)**

12. This permit is conditioned on a 98 percent destruction reduction efficiency (DRE) for carbon monoxide (CO) streams sent to the N-5/6 Flare. Should future flare testing by the EPA or other regulatory agency substantiate that a lower DRE should be used for CO streams, the permit holder agrees to amend this permit and do additional prevention of significant deterioration (PSD) modeling for CO.

Storage and Loading

13. The storage and loading control requirements specified in paragraphs A-C of this condition shall apply to the Acetone Day Tank (Tank No. 90023), EPN N-19 and the Acetone Dock Tank (EPN T-96662). Paragraphs D-F apply to all tanks covered in this permit. **(11/19)**

    A. An internal floating deck or roof or equivalent control shall be installed and/or maintained in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal. Installation of equivalent control requires prior review and approval by the TCEQ Executive Director.

    B. For any tank equipped with a floating roof, the holder of this permit shall follow 40 CFR § 60.113b), Testing and Procedures, to verify seal integrity. Additionally, the permit holder shall follow 40 CFR § 60.115b, Reporting and Recordkeeping Requirements, to provide records of the dates, seals were inspected, seal integrity, and corrective actions taken.

    C. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650, or an equivalent degree of flotation, except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.

    D. Uninsulated tank exterior surfaces exposed to the sun shall be painted chalk white when the tanks are next scheduled for painting. Storage tanks must be equipped with permanent submerged fill pipes. **(11/19)**

    E. For purposes of assuring compliance with emission limits, the holder of this permit shall maintain a monthly emissions record which describes calculated emissions from all storage tanks and loading operations. The record shall include tank or loading point identification number, control method used, tank or vessel capacity in gallons, name of the material stored or loaded, liquid molecular weight, liquid monthly average temperature in degrees Fahrenheit, liquid vapor pressure at the monthly average material temperature in psia, and liquid throughput for the previous month and year-to-date. Records of liquid monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. These records shall be maintained at the plant site for at least two years and be made available to representatives of the TCEQ upon request.

F. Emissions for tanks and loading operations shall be calculated using: (a) AP-42 Compilation of Air Pollution Emission Factors, Chapter 7 “Storage of Organic Liquids” and (b) the TCEQ publication titled “Technical Guidance Package for Chemical Sources - Storage Tanks”.

Cooling Towers

14. The cooling towers (EPNs CT-1, CT-N5-N, CT-N5-S, and CT-N7) shall be operated and monitored in accordance to the following: (**04/23)**

A. Cooling towers shall each be equipped with drift eliminators having manufacturer’s design assurance of 0.001% drift or less. Drift eliminators shall be maintained and inspected at least every two years. The permit holder shall maintain records of all inspections and repairs.

B. The cooling towers shall comply to the following:

(1) Total dissolved solids for Cooling Tower No .1 (EPN CT-1) (TDS) shall not exceed the maximum hourly 1,700 parts per million by weight (ppmw), with an annual average not to exceed 1,700 ppmw,

(2) Total Dissolved solids for Cooling Towers N-5 North, N-5 South and N-7 (EPNs CT-N5-N, CT-N5-S, and CT-N7) shall not exceed 2,345 parts per million by weight (ppmw). Dissolved solids in the cooling water drift are considered to be emitted as PM, PM_{10}, and $PM_{2.5}$ as represented in the permit application calculations.

Dissolved solids in the cooling water drift are considered to be emitted as PM, PM_{10}, and $PM_{2.5}$ as represented in the permit application calculations.

C. Cooling towers shall be analyzed for particulate emissions using one of the following methods:

(1) Cooling water shall be sampled at least once per day for total dissolved solids (TDS); or

(2) TDS monitoring may be reduced to weekly if conductivity is monitored daily and TDS is calculated using a ratio of TDS-to-conductivity (in ppmw per µmho/cm or ppmw/siemens). The ratio of TDS-to-conductivity shall be determined by concurrently monitoring TDS and conductivity on a weekly basis. The permit holder may use the average of two consecutive TDS-to-conductivity ratios to calculate daily TDS; or

(3) TDS monitoring may be reduced to quarterly if conductivity is monitored daily and TDS is calculated using a correlation factor established for each cooling tower. The correlation factor shall be the average of nine consecutive weekly TDS-to-conductivity ratios determined using (2) above provided the highest ratio is not more than 10% larger than the smallest ratio.

(4) The permit holder shall validate the TDS-to-conductivity correlation factor once each calendar quarter. If the ratio of concurrently sampled TDS and conductivity is more than 10% higher or lower than the established factor, the permit holder shall increase TDS monitoring to weekly until a new correlation factor can be established.

D. Cooling water sampling shall be representative of the cooling tower feed water and shall be conducted using approved methods.

(1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. Water samples should be capped upon collection, and transferred to a laboratory area for analysis.

(2) The analysis method for conductivity shall be either ASTM D1125-14 Test Method A (field or routine laboratory testing) or ASTM D1125-14 Test Method B (continuous monitor). The analysis may be conducted at the sample site or with a calibrated process conductivity meter. If a conductivity meter is used, it shall be calibrated at least annually. Documentation of the method and any associated calibration records shall be maintained.

(3) Alternate sampling and analysis methods may be used to comply with (1) and (2) above with written approval from the TCEQ Regional Director.

(4) Records of all instrument calibrations and test results and process measurements used for the emission calculations shall be retained.

E. Emission rates of PM, PM_{10} and $PM_{2.5}$ shall be calculated using the measured TDS and the ratio or correlation of TDS to conductivity measurements, the design drift rate and the daily maximum and average actual cooling water circulation rate for the short term and annual average rates. Alternately, the design maximum circulation rate may be used for all calculations. Emission records shall be updated monthly.

15. Cooling towers (EPNs: CT-1, CT-N5-N, CT-N5-S, and CT-N7) shall be operated and monitored in accordance with the following: **(04/23)**

A. The cooling tower water shall be monitored monthly for VOC leakage from heat exchangers in accordance with the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or another air stripping method approved by the TCEQ Executive Director.

B. Cooling tower water VOC concentrations above 0.08 ppmw indicate faulty equipment. Equipment shall be maintained so as to minimize VOC emissions into the cooling water. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs.

Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded.

C. The following conditions apply to Cooling Tower #1 (EPN CT-1) before completion of the ACH Production increase projects authorized by Project No. 284083 issued November 26, 2019: **(04/23)**

(1) The holder of this permit shall perform sampling and other testing as necessary to establish the pounds per hour (lbs/hr) of VOC emitted into the cooling towers associated with this permit. All sampling and testing methods shall be subject to approval of the TCEQ Executive Director prior to their implementation. Within 120 days of the issuance of the permit, the holder of this permit shall submit to the TCEQ Regional Director a test method for approval. Within 30 days of obtaining approval, the holder of this permit shall conduct initial testing. Within 30 days after completing of sampling, copies of the test report shall be submitted to the TCEQ Regional Office. The VOC concentration (ppmv) in the cooling water should be reported. This will be used to determine the level at which a leak into cooling water will be assumed in the

ongoing monitoring program. Within 30 days after completion of sampling, copies of the test report shall be submitted to the TCEQ Regional Office. **(Completed, 2015)**

(2) The VOC associated with cooling tower water shall be monitored monthly with the method approved for paragraph A. by the TCEQ Regional Director. The appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling tower. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs. The results of the monitoring and maintenance efforts shall be recorded, and such records shall be maintained for a period of two years. The records shall be made available to the TCEQ Executive Director upon request.

Stack Testing

16. The Safety Vent Stacks (EPN N-7 and N-8) shall be monitored weekly for VOC (hydrogen cyanide) and NH_3 emissions via the following methods:

A. Colorimetric tube sample method, provided that the tube is used in accordance to the manufacturer's guidelines, or

B. An electrochemical sensor.

The weekly monitoring shall be used to determine compliance with the lbs/hr emission rate on the MAERT. **(07/20)**

Maintenance, Startup and Shutdown Activities

17. This permit authorizes the emissions from the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit.

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through the work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity not identified in Attachments A or B and the emissions associated with it shall be recorded and include at least the following information:

A. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;

B. the type of planned MSS activity and the reason for the planned activity;

C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;

D. the date and time of the MSS activity and its duration;

E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis. **(12/11)**

18. Process units and facilities, with the exception of those identified in Special Condition Nos. 20 and 21, and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.

A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition, unless the equipment is specifically identified in Attachment D. Equipment that is specifically identified in Attachment D shall not be opened to atmosphere until the concentration limits listed in Attachment D are met. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the normal process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.

C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel or closed liquid recovery system unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.

D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. Equipment specified by Attachment D shall be degassed until the concentration limits in Attachment D are met. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.

(1) For MSS activities identified in Attachment B (not including activities for equipment in Attachment D), the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.

(2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition No. 19. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. If there is not a connection (such as a sample, vent, or drain valve) available from which a representative sample may be obtained, a sample may be taken upon entry into the system after degassing has been completed. The sample shall be taken from inside the vessel so as to minimize any air or dilution from the entry point. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL, unless the equipment is specifically identified in Attachment D. Equipment that is specifically identified in Attachment D shall be degassed until the concentration limits listed in Attachment D are met. Compliance with the concentration limits in Attachment D shall be shown using an instrument in accordance with Special Condition No. 19.A or 19.B. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

E. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:

(1) It is not technically practicable to depressurize or degas, as applicable, into the process.

(2) There is not an available connection to a plant control system (flare).

(3) There is no more than 50 lb of air contaminant to be vented to atmosphere during shutdown or startup, as applicable.

(4) The equipment is not identified on Attachment D.

All instances of venting directly to atmosphere per Special Condition No. 18.E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified in Attachment B. **(12/11)**

19. Air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below.

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

(1) The instrument shall be calibrated within 24 hours of use with a calibration gas such that the response factor (RF) of the VOC (or mixture of VOCs) to be monitored shall be less than 2.0. The calibration gas and the gas to be measured, and its approximate (RF) shall be recorded. If the RF of the VOC (or mixture of VOCs) to be monitored is greater than 2.0, the VOC concentration shall be determined as follows:

VOC Concentration = Concentration as read from the instrument*RF

In no case should a calibration gas be used such that the RF of the VOC (or mixture of VOCs) to be monitored is greater than 5.0.

(2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. As an alternative the VOC concentration may be monitored over a five-minute period with an instrument designed to continuously measure concentration and record the highest concentration read. The highest measured VOC concentration shall be recorded and shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

(1) The air contaminant concentration measured as defined in (3) is less than 80 percent of the range of the tube and is at least 20 percent of the maximum range of the tube.

(2) The tube is used in accordance with the manufacturer's guidelines.

(3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

10,000*mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit measured with a lower explosive limit detector.

(1) The detector shall be calibrated within 30 days of use with a certified calibration gas standard. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.

(2) A functionality test shall be performed on each detector within 24 hours of use with a certified gas standard. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained. **(12/11)**

20. This condition applies only to piping and components subject to leak detection and repair monitoring requirements identified in other NSR permits. Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

    A. a cap, blind flange, plug, or second valve must be installed on the line or valve; or

    B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open-ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve. **(12/11)**

21. This permit authorizes emissions from EPN N_MSSFR for the N-5 Acetone Day Tank and the N-96662 Acetone Dock Tank during planned floating roof landings. Tank roofs may only be landed for changes of tank service or tank inspection/maintenance as identified in the permit application. Emissions from change of service tank landings, for which the tank is not cleaned and degassed, shall not exceed 10 tons of VOC or acetone in any rolling 12-month period. Tank roof landings include all operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank roof landings.

    A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank.

    B. If the VOC or acetone partial pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained. The tank shall not be opened except as necessary to set up for degassing and cleaning. Controlled degassing of the vapor space under landed roofs shall be completed as follows:

        (1) Any gas or vapor removed from the vapor space under the floating roof must be routed to a control device or a controlled recovery system and controlled degassing must be maintained until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. The locations and identifiers of vents other than permanent roof fittings and seals, control device or controlled recovery system, and controlled exhaust stream shall be recorded. There shall be no other gas/vapor flow out of the vapor space under the floating roof when degassing to the control device or controlled recovery system.

        (2) The vapor space under the floating roof shall be vented using good engineering practice to ensure air contaminants are flushed out of the tank through the control device or controlled recovery system to the extent allowed by the storage tank design.

(3) A volume of purge gas equivalent to twice the volume of the vapor space under the floating roof must have passed through the control device or into a controlled recovery system, before the vent stream may be sampled to verify acceptable VOC concentration. The measurement of purge gas volume shall not include any make-up air introduced into the control device or recovery system. The VOC sampling and analysis shall be performed as specified in Special Condition No. 19.

(4) The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged.

C. The tank shall not be opened or ventilated without control, except as allowed by (1) below until one of the criteria in part D of this condition is satisfied.

(1) Minimize air circulation in the tank vapor space.

(a) One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank.

(b) Access points shall be closed when not in use

D. The tank may be opened without restriction and ventilated without control, after all standing liquid has been removed from the tank or the liquid remaining in the tank has a VOC or acetone partial pressure less than 0.02 psia. These criteria shall be demonstrated in any one of the following ways.

(1) Low VOC or acetone partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC or acetone partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC or acetone partial pressure may be estimated based on this information and engineering calculations.

(2) If water is added or sprayed into the tank to remove standing VOC or acetone, one of the following must be demonstrated:

(a) Take a representative sample of the liquid remaining in the tank and verify no visible sheen using the static sheen test from 40 CFR Part 435 Subpart A, Appendix 1.

(b) Take a representative sample of the liquid remaining in the tank and verify hexane soluble VOC concentration is less than 1000 ppmw using EPA method 1664 (may also use 8260B or 5030 with 8015 from SW-846).

(c) Stop ventilation and close the tank for at least 24 hours. When the tank manway is opened after this period, verify VOC concentration is less than 1,000 ppmv through the procedure in Special Condition No. 18.

(3) No standing liquid verified through visual inspection.

The permit holder shall maintain records to document the method used to release the tank.

E. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exceptions:

(1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed 214.29 bbl/hr for the N-5 Acetone Day Tank or 1,190.48 bbl/hr for the N-96662 Acetone Dock Tank.

F. The occurrence of each roof landing and the associated emissions shall be recorded and the rolling 12-month tank roof landing emissions shall be updated on a monthly basis. These records shall include at least the following information:

(1) the identification of the tank and emission point number;

(2) the reason for the tank roof landing;

(3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:

(a) the roof was initially landed,

(b) all liquid was pumped from the tank to the extent practical,

(c) all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC or acetone partial pressure to <0.02 psi,

(d) if there is liquid in the tank, VOC or acetone partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,

(e) refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and

(f) tank roof off supporting legs, floating on liquid.

(4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events d and f with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated November 2006 and the permit application. **(12/11)**

22. Fixed-roof storage tanks are subject to the requirements of Special Condition No. 21.C and 21.D. If the ventilation of the vapor space is controlled, the emission control system shall meet the requirements of Special Condition No. 21.B(1) through 21.B(4), except that for tank N-4 the concentration limit in Attachment D applies. Records shall be maintained per Special Condition No. 21.F(3)c through 21.F(3)e, and 21.F(4). **(12/11)**

23. Additional occurrences of MSS activities authorized by this permit may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity. **(12/11)**

24. Planned maintenance activities must be conducted in a manner consistent with good practice for minimizing emissions, including the use of air pollution control equipment, practices and processes. All reasonable and practical efforts to comply with Special Condition Nos. 17 through 23 must be used when conducting the planned maintenance activity, until the commission determines that the

efforts are unreasonable or impractical, or that the activity is an unplanned maintenance activity. **(12/11)**

Recordkeeping Requirements

25. All records required by this permit shall be maintained on the plant site for a minimum of five years and be made available to representatives of the TCEQ upon request. **(04/23)**

26. A copy of this permit shall be kept at the plant site and made immediately available at the request of personnel from the TCEQ, EPA, or any local air pollution control agency having jurisdiction.

Emission Reduction Projects

27. The issuance of this permit amendment is conditioned on the permit holder's undertaking of the emission reduction projects described below:

    A. A VOC emission reduction project to reduce VOC emissions by a minimum of 5 tons per year in one or more of the following sources of the Deer Park Plant: B-3-1; ACET-5; ACET-6; and ACET-7. This reduction shall take place within the contemporaneous period as stated in the Permit Application Table 1N dated October 26, 2004.

    The permit holder shall notify TCEQ Air Permits Division for the implementation of this VOC reduction project. The permit holder shall also keep records of the VOC emission reduction project on-site and shall make the records available to the representatives of the TCEQ, and the local air pollution control authorities having jurisdiction upon request.

    In addition, the permit that contains the unit(s) realizing the VOC reduction shall be revised or amended as necessary to reflect a reduced allowable emission rate for VOC. Any shutdowns shall occur no later than the start of operation of facilities included in the N-Area production increase project.

    B. Selective catalytic reduction equipment installation on Boiler 4 (EPN BH-2-4) operating under Permit Number 2165 to realize a NO_x allowable reduction of at least 95.33 tons. **(03/05)**

Federal Requirements

28. The modifications authorized by Project No. 284083 were determined not to be subject to major new source review by identifying projected actual emission rates of VOC, NO_x, CO, PM, PM_{10}, and $PM_{2.5}$ for the facilities potentially affected by the project. Actual emissions from EPNs N-3R, N-6, N-7, N-8, N-12R, N-14, N-17, FN, BH2-4, CT-1, MWTP-1, MWTP-2, MWTP-3, and MWTP-4 as listed on the table below shall be monitored, recorded and reports made in accordance Title 30 Texas Administrative Code § 116.127 (30 TAC § 116.127) for the time period specified in 30 TAC § 116.127(b)(1). **(11/19)**

Pollutant	EPN	Permit Number	Description	Total Projected Actual Emission (TPY)
VOC	N-3R	723	N-7/8 Preheaters	≤ 28.24
	N-6	723	N-3/7 Feed and Exit Gas Flare	
	N-7	723	N-5/6 Safety Vent Stack	
	N-8	723	N-3/4 Safety Vent Stack	
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	N-17	723	N-5/6 Flare	
	FN	723	Fugitives	
	BH2-4	2165	Boiler No. 4	
	CT-1	723	Cooling Tower #1	
	MWTP-1	PBR 106.532	Primary API Separator	
	MWTP-2	PBR 106.532	Secondary API Separator	
	MWTP-3	PBR 106.532	Equalization Tanks	
	MWTP-4	PBR 106.532	Main WW Treatment Plant Area	
NOx	N-3R	723	N-7/8 Preheaters	≤ 119.12
	N-6	723	N-3/7 Feed and Exit Gas Flare	
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	N-17	723	N-5/6 Flare	
	BH2-4	2165	Boiler No. 4	
	N-3R	723	N-7/8 Preheaters	

Pollutant	EPN	Permit Number	Description	Total Projected Actual Emission (TPY)
CO	N-6	723	N-3/7 Feed and Exit Gas Flare	≤ 325.92
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	N-17	723	N-5/6 Flare	
	BH2-4	2165	Boiler No. 4	
PM	N-3R	723	N-7/8 Preheaters	≤ 44.95
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	BH2-4	2165	Boiler No. 4	
	CT-1	723	Cooling Tower #1	
PM_{10}	N-3R	723	N-7/8 Preheaters	≤ 34.95
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	BH2-4	2165	Boiler No. 4	
	CT-1	723	Cooling Tower #1	
$PM_{2.5}$	N-3R	723	N-7/8 Preheaters	≤ 29.95
	N-12R	723	N-3/4 Preheaters	
	N-14	723	N-5/6 Preheater	
	BH2-4	2165	Boiler No. 4	
	CT-1	723	Cooling Tower #1	

Other Authorizations

29. The issuance of this permit amendment is conditioned on the permit holder's undertaking of the following projects prior to any increase in emissions at the following units due to an increase in the acetone cyanohydrin production in the N-Area of the Deer Park Plant:

    A. Increase emission rates of Tank T-96658 (operating under Permit Number 4968);

    B. Increase emissions from the sources ZMWTP-2, ZMWTP-3, and ZMWTP-4; and

    C. Increase emission rates of Tank 96609 (EPN B-3-23 operating under Permit Number 1257A).

    Emission rate increases for sources described in this condition shall be achieved through permit amendment or permit by rule authorizations in accordance with the representations made in the confidential submittals dated November 2004 for Permit Numbers 723 and PSDTX828.

    The permit holder shall keep records of the authorizations for the above projects on-site and shall make the records available to the representatives of TCEQ and the local air pollution control authorities having jurisdiction upon request. **(03/05)**

30. The following sources and/or activities are authorized under a Permit by Rule (PBR) by Title 30 Texas Administrative Code Chapter 106 (30 TAC Chapter 106). These lists are not intended to be all inclusive and can be altered without modifications to this permit. **(07/20)**

Authorization	Source or Activity
PBR Registration No. 126177	N Area Refrigeration Unit
PBR Registration No. 156311	N-Area Fugitives

Date: April 28, 2023

Attachment A

Permit Number 723

Inherently Low Emitting Activities

Activity	Emissions				
	VOC	NO_x	CO	PM	H_2S/SO_2
Instrumentation /analyzer maintenance	X				

Date: December 7, 2011

Attachment B

Permit Number 723

Routine Maintenance Activities

Pump repair/replacement

Fugitive component (valve, pipe, flange) repair/replacement

Compressor repair/replacement

Heat exchanger repair/replacement

Vessel repair/replacement

Date: December 7, 2011

Attachment C

Permit Number 723

MSS Activity Summary

Facilities	Description	Emissions Activity	EPN
all process units	process unit shutdown/depressurize/ drain	vent to flare	N-5/6
all process units	process unit purge/degas/drain	vent to atmosphere	N_MSSPH N_DEGAS
all process units	process unit startup	vent to flare	N-5/6
all process units and tanks	preparation for facility/component repair/replacement	vent to flare	N-5/6
all process units and tanks	preparation for facility/component repair/replacement	vent to atmosphere	N_MSSPH N_DEGAS
all process units and tanks	recovery from facility/component repair/replacement	vent to flare	N-5/6
all process units and tanks	recovery from facility/component repair/replacement	vent to atmosphere	N_MSSPH N_DEGAS
all process units and tanks	preparation for unit turnaround or facility/component repair/replacement	remove liquid	N_MSSPH N_DEGAS N-5/6
N-7/8 Preheaters	Preheater Startup	Vent to atmosphere	N-3MSS
N-3/4 Preheaters	Preheater Startup	Vent to atmosphere	N-12MSS
all floating roof tanks	tank roof landing	operation with landed roof	N_MSSFR
all floating roof tanks	degas of tank with landed roof	controlled degassing	N_MSSFR
all tanks	tank cleaning	cleaning activity and solvents	N_MSSTK N_MSSFR
see Attachment A	miscellaneous low emitting activities	see Attachment A	NMISCMSS

Date: June 23, 2017

Attachment D

Permit Number 723

Release Concentrations for Specified Equipment

Concentration Limits (ppmv)		
Equipment	**NH_3**	**HCN**
N4 Fixed Roof Tank		15
N3 Feed Gas Mixer	500	
N3 feed Gas Filter	500	
N4 Feed Gas Mixer	500	
N4 Feed Gas Filter	500	
N3 Converter System – 07170	500	50
N3 Converter System – 07190	500	50
N3 Dilute HCN Tank – 07332		50
N3 Dilute HCN Tank – 07331		50
N3 Dilute HCN Tank – 07330		50
Ammonia Filter	500	
N5 Converter Feed Gas Mixer	500	
N5 Converter Mixed Feed Gas Filter	500	
N5 Converter System – 27190	500	50
N5 Converter System – 27170	500	50
N6 Converter Feed Gas Mixer	500	
N6 Converter Mixed Feed Gas Filter	500	
N5 10% HCN Storage Tank		50
N5 Conc. HCN Storage Tank		50
N7 Ammonia Filter	500	
N7 Feed Gas Mixer	500	
N7 Feed Gas Filter	500	
N8 Feed Gas Mixer	500	
N8 Feed Gas Filter	500	
N7 Converter System – 37190	500	50
N7 Converter System – 37170	500	41
N7 Dilute HCN Tank		50
Conc. HCN Storage Tank		50
N3 ACH Cascade Tank (N/E) – 07528		50
N3 ACH Cascade Tank (N/W) – 07529		50
N3 ACH Cascade Tank (S/W) – 07530		50
N3 ACH Cascade Tank (S/E) – 07531		50
N3 Dilute ACH Storage Tank South – 07601		50

Concentration Limits (ppmv)		
N3 Dilute ACH Storage Tank Center – 07602		50
N3 Dilute ACH Storage Tank North – 07600		50
N3 Crude ACH Storage Tank North – 07690		50
N3 Crude ACH Storage Tank Center -07691		50
N3 Crude ACH Storage Tank South – 07692		50
N5 ACH Generator		50
N5 ACH Holding Tank		50
N5 ACH Neutralizing Tank		50
N5 1st Stage Feed Tank		50
N5 Production Rundown Tank – 27691		50
Crude ACH Rundown Tank		50
N5 2nd Stage Condensate Surge Tank – 27776		50
N5 Acetone Recovery Column Feed Tank West – 27777		50
N5 Acetone Recovery Column Feed Tank East – 27778		50
Recovered Acetone Storage Tank		50
NH_3 Stripper Condensate Receiver – 27877	500	0
NH_3 Recycle Compressor – 27893	500	0
API Separator – 95431	500	50
N3 NH_3 Absorber – 07216	500	50
N3 HCN Absorber – 07286	500	50
N3 HCN Distillation Column		50
N5 NH_3 Absorber Column	500	50
N5 HCN Absorber Column	500	50
N5 HCN Distillation Column		50
N7 NH_3 Absorber		50
N7 HCN Absorber Column		50
N7 HCN Distillation Column		50
N3 1st Stage ACH Concentrator - 07610		50
N5 1st Stage Concentrator Column		50
N5 2nd Stage Concentrator – 27660		50
N5 Acetone Recovery Column – 01158		50
HCN Stripper – 27866	500	50
NH_3 Stripper – 2770	500	50
NH_3 Distillation – 27881	500	0
West NH_3/HCN Stripping Column – 27717	500	50
N3 ACH Filter – 07670		50
N5 Center Crude ACH Filter – 27560		50

Concentration Limits (ppmv)		
N3 ACH Generator Mixing Kettle – 07501		50
NH_3 Distillation Separator Drum – 27886	500	0
N5 NH_3/HCN Stripper Reflux Pot – 24458	500	50
Center ACH Filter		50

Date: December 7, 2011

Attachment E

Permit Number 723

Authorization Incorporation

The following sources and/or activities are incorporated in this permit.

Authorization No.	Date Authorized	Description
AMOC No. 152	February 13, 2020	Authorized certain absorbers and associated boilers used for control to comply with 40 CFR Part 60 Subpart NNN by following the requirements of 40 CFR Part 63, NESHAPS Subpart YY: MACT YY.
AMOC No. 153	February 3, 2020	Authorized an alternative means of compliance with 40 CFR 60 Subpart VVa (NSPS VVa) by following the requirements of 40 CFR 63 NESHAPS Subpart YY (MACT YY) and, by reference Subpart UU (MACT UU).

Date: July 29, 2020

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 723 and PSDTX828M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CT-N5-N	N-5 Cooling Tower North	VOC	0.30	1.32
		PM	0.14	0.62
		PM_{10}	0.08	0.36
		$PM_{2.5}$	<0.01	<0.01
CT-N5-S	N-5 Cooling Tower South	VOC	0.25	1.10
		PM	0.12	0.51
		PM_{10}	0.07	0.30
		$PM_{2.5}$	<0.01	<0.01
CT-N7	N-7 Cooling Tower	VOC	1.50	6.58
		PM	0.70	3.08
		PM_{10}	0.41	1.79
		$PM_{2.5}$	<0.01	<0.01
CT-1	Cooling Tower #1	VOC	0.36	1.58
		PM	0.31	1.34
		PM_{10}	0.21	0.93
		$PM_{2.5}$	<0.01	<0.01
N-3R	N-7/8 Preheaters	NO_X	0.34	1.37
		CO	0.51	2.03
		VOC	0.07	0.30
		PM	0.10	0.41
		PM_{10}	0.10	0.41

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.10	0.41
		SO_2	<0.01	0.01
N-4	N-7/8 Absorber Feed Water Tank	HCN	0.01	0.01
		NH_3	3.14	0.01
N-6	N-3/7 Feed and Exit Gas Flare	NO_X	130.65	7.78
		CO	699.09	136.39
		VOC (other)	0.19	0.01
		CH_3CN	0.04	0.11
		SO_2	0.11	0.01
		HCN	28.40	1.94
		NH_3	31.88	0.66
		Acetone	0.19	0.84
N-7	N-5/6 Safety Vent Stack	VOC (6)	0.01	0.01
		HCN	1.35	0.03
		NH_3	1.46	0.15
N-8	N-3/4 Safety Vent Stack	VOC (6)	0.01	0.01
		HCN	1.43	0.03
		NH_3	1.46	0.16
N-9	N-7/8 SVG Fan	HCN	0.07	0.21
		NH_3	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
N-12R	N-3/4 Preheaters	NO_X	0.34	1.37
		CO	0.51	2.03
		VOC	0.07	0.30
		PM	0.10	0.41
		PM_{10}	0.10	0.41
		$PM_{2.5}$	0.10	0.41
		SO_2	<0.01	0.01
N-14	N-5/6 Preheater	NO_X	1.83	8.02
		CO	0.02	0.07
		VOC	0.09	0.38
		PM	0.12	0.52
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.12	0.52
		SO_2	0.01	0.01
N-17	N-5/6 Flare	NO_X	152.13	48.41
		CO	450.52	235.34
		VOC (other)	0.10	0.01
		CH_3CN	1.25	2.01
		CH_2CHCN	0.78	1.20
		SO_2	0.08	0.03
		HCN	24.01	17.04
		NH_3	171.71	49.14
		Acetone	4.17	7.33

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
N-18	Wastewater Collection Tank No. 91357	HCN	0.03	0.01
N-19	N-5 Acetone Day Tank	Acetone	0.55	1.03
T-96662	Acetone Dock Tank	Acetone	1.25	2.40
FN	Fugitives (5)	HCN	0.43	1.83
		NH_3	0.32	0.79
		ACH	0.44	1.93
		Acetone	0.53	2.26
		CH_3CN	0.15	0.62
		CH_2CHCN	0.07	0.31
		H_2SO_4	0.01	0.02
		CO	0.04	0.17
TK-FUG	Tank N-96662 Fugitives (5)	Acetone	0.04	0.18
N_MSSTK	Fixed Roof Tank MSS	Isodecyl Alcohol	0.11	0.01
		HCN	0.92	0.01
N_MSSFR	Floating Roof Tank MSS	Acetone	68.80	0.25
N_MSSPH	Pump and Heat Exchanger MSS	HCN	0.17	0.01
		NH_3	0.21	0.01
		ACH	0.22	0.02
		Acetone	0.19	0.01
		VOC (other)	0.05	0.01
N_DEGAS	Equipment Degassing	HCN	0.35	0.01
		NH_3	1.50	0.01
		ACH	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		Acetone	0.28	0.01
		VOC (other)	0.11	0.01
NMISCMSS	Miscellaneous MSS Activities	HCN	0.12	0.01
		NH_3	0.06	0.01
		ACH	0.22	0.01
		Acetone	0.29	0.01
		H_2SO_4	0.11	0.01
		VOC (other)	0.16	0.01
N-3 MSS	N-7/8 Preheaters MSS	CO	2.64	0.02
		NO_X	0.21	0.01
		PM	0.03	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		SO_2	0.01	0.01
		VOC	0.02	0.01
N-12MSS	N-3/4 Preheaters MSS	CO	2.64	0.02
		NO_X	0.21	0.01
		PM	0.03	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		SO_2	0.01	0.01
		VOC	0.02	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCN - hydrogen cyanide
NH_3 - ammonia
ACH - acetone cyanohydrin

Emission Sources - Maximum Allowable Emission Rates

CH_3CN - acetonitrile
CH_2CHCN - acrylonitrile
H_2SO_4 - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Emissions of ACH are included in the VOC emissions for this EPN.

Date: April 28, 2023