FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Union Carbide Corporation

AUTHORIZING THE OPERATION OF
Seadrift Operations
High Pressure II Unit
All Other Basic Organic Chemical Manufacturing

LOCATED AT
Calhoun County, Texas
Latitude 28° 30′ 54″ Longitude 96° 46′ 18″
Regulated Entity Number: RN102181526

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: O2026 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 H, EEEE, or FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, §§ 113.130, 113.880, or 113.890, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

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. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(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 source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources 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 sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source 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)(8) and (a)(8)(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)(8)(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.

D. 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.

E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

F. 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 storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: “Storage of Volatile Organic Compounds,” the permit holder shall comply with the requirements of 30 TAC § 115.112(c)(1).

5. 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.

6. 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).

7. 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

   E. Title 40 CFR § 63.7952(a)(10), for recordkeeping requirements

8. 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.

Additional Monitoring Requirements

9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

10. 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 August 22, 2025 in the application for project 37269), 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

11. 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.

12. 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

13. 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.

14. 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

15. 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

16. 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.

Permit Location

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

New Source Review Authorization References

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
1041	INDUSTRIAL PROCESS COOLING TOWERS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
561	STORAGE TANKS/VESSELS	N/A	R5112-01	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-MONCVNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	2PURCOL, EAVACOL, FGSEP, ISOCOL	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-MONCVNT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	2PURCOL, EAVACOL, FGSEP, ISOCOL	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPUNLDGHI	LOADING/UNLOADING OPERATIONS	SDL15, SDL16	R5211-01	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRPVENT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	549, 552, 553	R5121-01	30 TAC Chapter 115, Vent Gas Controls	Vent Type = Vent gas stream emissions of ethylene associated with the formation, handling, and storage of solidified low-density polyethylene in which no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted.
GRPVENT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	549, 552, 553	R5121-02	30 TAC Chapter 115, Vent Gas Controls	Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C8 and above)., Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is less than 30,000

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					ppmv.
GRPVENT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	1039, 284, 289, 414, 547, 669, RX2EXTR1, RX2EXTR2	R5121-01	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPVNT1B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 306	R5121-01	30 TAC Chapter 115, Vent Gas Controls	Vent Type = Vent gas stream emissions of ethylene associated with the formation, handling, and storage of solidified low-density polyethylene in which no more than 1.1 pounds of ethylene per 1,000 pounds of product are emitted.
GRPVNT1B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 306	R5121-02	30 TAC Chapter 115, Vent Gas Controls	Vent Type = Vent gas stream emissions of the specified classes of VOCs including aldehydes, alcohols, aromatics, ethers, olefins, peroxides, amines, acids, esters, ketones, sulfides, and branched chain hydrocarbons (C8 and above)., Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is less than 30,000 ppmv.
HP2FUGS	FUGITIVE EMISSION UNITS	N/A	63FFFF-01	40 CFR Part 63, Subpart FFFF	No changing attributes.
HP2FUGS	FUGITIVE EMISSION UNITS	N/A	63H-01	40 CFR Part 63, Subpart H	No changing attributes.
SDL17	LOADING/UNLOADING OPERATIONS	N/A	R5211-01	30 TAC Chapter 115, Loading and Unloading of	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				VOC	
SDL17	LOADING/UNLOADING OPERATIONS	N/A	63EEEE-01	40 CFR Part 63, Subpart EEEE	No changing attributes.
UNLDGLOW	LOADING/UNLOADING OPERATIONS	N/A	R5211-01	30 TAC Chapter 115, Loading and Unloading of VOC	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)
1041	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2490(a)-Table10 § 63.104(a) [G]§ 63.104(d) § 63.104(e) § 63.104(e)(1) [G]§ 63.104(e)(2) § 63.2490(a) § 63.2490(b) § 63.2490(c)	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)	[G]§ 63.104(e)(2) [G]§ 63.104(f)(1)	[G]§ 63.104(f)(2)
561	EU	R5112-01	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(c)(1)	Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).	** See Periodic Monitoring Summary	None	None
GRP-MONCVNT	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(B) § 60.18	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2)	None
GRP-MONCVNT	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(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2)	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) § 63.115(d)(3)(iii) § 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)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 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)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 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)

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(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)		§ 63.983(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)	[G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 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)
GRPUNLDGHI	EU	R5211-01	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(3)(A) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Plants, excluding gasoline bulk plants, which load less than 20,000 gallons of VOC into transport vessels per day with a true vapor pressure greater than or equal to 1.5 psia is exempt from the division, except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
GRPVENT1	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(A) § 115.127(c)(1)	A vent gas stream from a low-density polyethylene plant (LDPE) provided that no more than 1.1 lbs of ethylene per 1,000 lbs of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPVENT1	EP	R5121-02	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	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)
GRPVENT2	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(B) § 115.127(c)(1)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(c)(1)(B)-(C) of this title equal to or less than 100 lbs in a continuous 24-hour period is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPVNT1B	EP	R5121-01	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(A) § 115.127(c)(1)	A vent gas stream from a low-density polyethylene plant (LDPE) provided that no more than 1.1 lbs of ethylene per 1,000 lbs of product are emitted from all the vent gas streams associated with the formation, handling, and storage of solidified product is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(A)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(A)	None
GRPVNT1B	EP	R5121-02	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
HP2FUGS	EU	63FFFF-01	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2480(a) 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 FFFF	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 FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

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)
					requirements of 40 CFR Part 63, Subpart FFFF		Subpart FFFF		
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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	Standards: Open-ended valves or lines. §63.167(a)-(e).	[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)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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)

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)
					§ 63.162(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)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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]§ 63.181(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)
HP2FUGS	EU	63H-01	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.172(a) [G]§ 63.172(h) § 63.172(i) § 63.172(j)(1) § 63.172(j)(2) § 63.172(m)	Owners/operators of closed-vent systems and control devices used to comply with provisions of this subpart shall comply with the provisions of this section, except as provided in	[G]§ 63.172(f)(1) [G]§ 63.172(f)(2) § 63.172(g) [G]§ 63.172(h) § 63.172(j)(1) § 63.172(j)(2) [G]§ 63.180(b)	§ 63.118(a)(3) § 63.172(j)(1) § 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(g)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(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)
						§63.162(b).	[G]§ 63.180(d)	§ 63.181(g)(1)(i) § 63.181(g)(1)(ii) [G]§ 63.181(g)(2) [G]§ 63.181(g)(3)	
HP2FUGS	EU	63H-01	112(B) HAPS	40 CFR Part 63, Subpart H	§ 63.172(d) § 63.11(b) § 63.172(e) [G]§ 63.172(h) § 63.172(m)	Flares used to comply with this subpart shall comply with the requirements of § 63.11(b) of 40 CFR 63, Subpart A.	§ 63.172(e) [G]§ 63.172(h) [G]§ 63.180(b) [G]§ 63.180(d) [G]§ 63.180(e)	§ 63.181(a) [G]§ 63.181(b) § 63.181(c) [G]§ 63.181(d) § 63.181(g) § 63.181(g)(1)(i) § 63.181(g)(1)(ii) § 63.181(g)(1)(iii) § 63.181(g)(1)(iv) [G]§ 63.181(g)(2)	[G]§ 63.182(a) [G]§ 63.182(b) § 63.182(c) [G]§ 63.182(c)(1) § 63.182(c)(4) [G]§ 63.182(d)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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)
HP2FUGS	EU	63H-01	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)
SDL17	EU	R5211-01	VOC	30 TAC Chapter 115, Loading and	§ 115.217(b)(3)(A) § 115.212(b)(2)	Plants, excluding gasoline bulk plants, which load less	§ 115.214(b)(1)(A) §	§ 115.216 § 115.216(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)
				Unloading of VOC	§ 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	than 20,000 gallons of VOC into transport vessels per day with a true vapor pressure greater than or equal to 1.5 psia is exempt from the division, except as specified.	115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216(3)(B) § 115.216(3)(D)	
SDL17	EU	63EEEE-01	112(B) HAPS	40 CFR Part 63, Subpart EEEE	§ 63.2343(a) § 63.2343(a)	For each transfer rack subject to this subpart that only unloads organic liquids (i.e., no organic liquids are loaded at any of the transfer racks), you must keep documentation that verifies that each transfer rack identified in §63.2343(a) is not required to be controlled.	None	None	None
UNLDGLOW	EU	R5211-01	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia under actual storage conditions is exempt from the requirements of the division (relating to Loading and Unloading of VOCs), except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None

Additional Monitoring Requirements

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 561	
Control Device ID No.: 246	Control Device Type: Flare
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-01
Pollutant: VOC	Main Standard: § 115.112(c)(1)
Monitoring Information	
Indicator: Pilot Flame	
Minimum Frequency: Once per hour	
Averaging Period: N/A	
Deviation Limit: Absence of flare pilot flame	
Periodic Monitoring Text: Measure and record the presence of the pilot flame or maintain records of alarm events and duration of alarm events. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data which indicates the lack of a pilot flame shall be considered and reported as a deviation.	

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.: PSDTX118M4	Issuance Date: 05/03/2024
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.: 2023	Issuance Date: 05/03/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
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: 106.472	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.495	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**
1039	BLENDER VENT	2023, PSDTX118M4
1041	COOLING TOWER	2023, PSDTX118M4
253	#1 REACTION EXTRUDER DRIER	2023, PSDTX118M4, 106.264/09/04/2000
254	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
255	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
256	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
257	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
258	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
259	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
260	#1 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
261	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
262	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
263	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
264	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]

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**
265	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
266	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
267	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
268	BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
270	#2 REACTION EXTRUDER DRIER	2023, PSDTX118M4
271	#2 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
272	#2 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
273	#2 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
274	#2 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
275	#2 REACTION PRIMARY STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
276	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
277	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
278	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]

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**
279	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
280	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
281	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
282	#2 REACTION BULK STORAGE BIN	2023, PSDTX118M4, 106.261/11/01/2003 [118024], 106.262/11/01/2003 [118024]
284	MIX TANK VENT	2023, PSDTX118M4
289	REFRIGERATED ISOPROPANOL TANK VENT	2023, PSDTX118M4
2PURCOL	NO. 2 PURGE COLUMN	2023, PSDTX118M4
306	SCRAP BIN	2023, PSDTX118M4
414	SCREEN PACK CLEANER/DIE PLATE CLEANER	106.264/09/04/2000, 106.495/09/04/2000
547	PREHEAT BIN	2023, PSDTX118M4
549	HOLDING BIN	2023, PSDTX118M4, 106.261/11/01/2003 [108571], 106.262/11/01/2003 [108571]
552	COOLING BIN	2023, PSDTX118M4
553	COOLING BIN	2023, PSDTX118M4
561	INHIBITOR TANK	2023, PSDTX118M4
669	A/O MIX TANK	2023, PSDTX118M4, 106.472/09/04/2000
EAVACOL	EA/VA REMOVAL COLUMN	2023, PSDTX118M4
FGSEP	FURNACE GAS ENTRAINMENT SEPARATOR	2023, PSDTX118M4

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**
HP2FUGS	FUGITIVE EMISSIONS	2023, PSDTX118M4, 106.261/11/01/2003
ISOCOL	ISO COLUMN C-901 OVERHEAD	2023, PSDTX118M4
RX2EXTR1	HP-2 RX2 EXTRUDER SEAL NO.1	2023, PSDTX118M4
RX2EXTR2	HP-2 RX2 EXTRUDER SEAL NO.2	2023, PSDTX118M4
SDL15	HP2 PROPYLENE UNLOADING	2023, PSDTX118M4
SDL16	HP2 ISOPROPANOL TANK TRUCK UNLOADING	2023, PSDTX118M4
SDL17	HP2 ETHYL ACRYLATE/VINYL ACETATE TANK CAR UNLOADIN	2023, PSDTX118M4
UNLDGLOW	LOW VAPOR PRESSURE VOC UNLOADING	2023, PSDTX118M4

**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.

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
RO ..... Responsible Official
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: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
246	Flare (11)(14)	Acetone	0.03	0.02	2, 13	2, 3, 13	2, 13
		CO	25.65	16.74			
		NOx	4.97	3.24			
		Ethylene (12)	28.60	20.47			
		Vinyl Acetate (12)	1.51	1.6			
		Ethyl Acrylate (12)	1.20	0.04			
		Propylene (12)	6.96	2.66			
		Toluene (12)	0.01	0.01			
		VOC	38.35	24.83			
246	Flare Maintenance, Start-Up, and Shutdown Emissions (MSS) only (11)(14)	Acetone	0.02	0.01	11, 13	11, 13	13
		CO	158.87	12.29			
		NOx	31.18	2.41			
		VOC	260.53	18.02			
		Ethylene (13)		7.42			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Propylene (13)		0.50			
		Vinyl Acetate (13)		0.01			
		Ethyl Acrylate (13)		0.01			
		Vinyltrimethoxysilane (13)		0.01			
		Mineral Spirits (13)		0.01			
251	Reactor No. 1 Process Fugitives (5)	Acetone	0.07	0.29	2, 9	2, 9 12	2
		CO	0.01	0.01			
		VOC	9.36	41.00			
252	No. 1 Cyclone Scrubber Vent	VOC	0.06	0.01		3	
253	No. 1 Extruder Drier	Vinyl Acetate	7.00	(6)	4, 5, 6, 7	3, 4, 5, 6, 7	6
		Ethylene	4.00	(6)			
		Propylene	0.20	(6)			
		Ethyl Acrylate	0.01	(6)			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Acetone	0.07	(6)			
		PM	1.30	5.69			
		PM_{10}	1.30	5.69			
		$PM_{2.5}$	1.30	5.69			
254 - 260	No. 1 Primary Storage Bins	Vinyl Acetate	21.73	(6)	2, 4, 5, 6, 7	2, 3, 4, 5, 6, 7	2, 6
		Ethylene	32.00	(6)			
		Propylene	1.54	(6)			
		Ethyl Acrylate	0.01	(6)			
		Acetone	0.58	(6)			
		PM		(6)			
		PM_{10}		(6)			
		$PM_{2.5}$		(6)			
261 - 268	No. 1 Bulk Storage Bins	Vinyl Acetate	21.73	19.50 (7)	2, 4, 5, 6, 7	2, 3, 4, 5, 6, 7	2, 6
		Ethylene	32.00	118.00 (7)			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Propylene	1.54	4.67			
		Ethyl Acrylate	0.01	0.01			
		Acetone	0.58	0.62			
		PM	2.05	8.98			
		PM_{10}	2.05	8.98			
		$PM_{2.5}$	2.05	8.98			
269	Reactor No. 2 Process Fugitives (5)	CO	0.60	2.64	9	9, 12	
		VOC	6.16	26.99			
270	No. 2 Extruder Drier	Ethylene	4.00	(8)	4, 5, 6, 7	3, 4, 5, 6, 7	6
		Propylene	0.20	(8)			
		Acetone	0.07	(8)			
		PM	1.30	5.69			
		PM_{10}	1.30	5.69			
		$PM_{2.5}$	1.30	5.69			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
271 - 275	No. 2 Primary Storage Bins	Vinyl Acetate	21.73	(8)	2, 4, 5, 6, 7	2, 3, 4, 5, 6, 7	2, 6
		Ethylene	32.00	(8)			
		Propylene	1.54	(8)			
		Ethyl Acrylate	0.01	(8)			
		Acetone	0.58	(8)			
		PM	(8)				
		PM_{10}	(8)				
		$PM_{2.5}$	(8)				
276 - 282	No. 2 Bulk Storage Bins	Vinyl Acetate	21.73	19.50 (9)	2, 4, 5, 6, 7	2, 3, 4, 5, 6, 7	2, 6
		Ethylene	32.00	118.00 (9)			
		Propylene	1.54	4.67			
		Ethyl Acrylate	0.01	0.01			
		Acetone	0.58	0.62			
		PM	2.05	8.98			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	2.05	8.98			
		$PM_{2.5}$	2.05	8.98			
A-299	No. 1 Dryer Sampler Filter	PM	0.01	0.01	6, 7	6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
A-300	No. 2 Dryer Sampler Filter	PM	0.01	0.01	6, 7	6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
410	No. 1 Fines Streamer Filter	PM	0.01	0.01	6, 7	3, 6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
411	No. 2 Fines Streamer Filter	PM	0.01	0.01	6, 7	3, 6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
413	PND catalyst Feed Tank	VOC	0.45	0.01	17	17	
546	Vulcanizables Fines Separator Dust Collector	PM	0.20	0.94	6, 7	3, 6, 7	6
		PM_{10}	0.20	0.94			
		$PM_{2.5}$	0.20	0.94			
547	Vulcanizables Preheat Bin	PM	0.30	0.55	6, 7	3, 6, 7	6
		PM_{10}	0.30	0.55			
		$PM_{2.5}$	0.30	0.55			
548	Vulcanizables Peroxide Tank	Acetophenone(12)	4.92	0.88	17	17	
		Cumene (12)	1.23	0.3			
		Phenol (12)	1.23	0.3			
		Toluene (12)	0.01	0.01			
		VOC	12.33	2.19			
549	Vulcanizables Holding Bin	Acetophenone (12)	2.00	8.76			
		Cumene (12)	0.50	2.19			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		Phenol (12)	0.50	2.19			
		Toluene (12)	0.01	0.01			
		VOC	5.00	21.9			
552 and 553	Vulcanizables Cooling Bin Nos. 1 and 2	PM	0.12	0.11	6, 7	3, 6, 7	6
		PM_{10}	0.12	0.11			
		$PM_{2.5}$	0.12	0.11			
		VOC	(10)	(10)			
562	Mineral Spirits Tank	VOC	0.23	0.01	17	17	
563	Propylene Unloading Process Fugitives (5)	VOC	0.05	0.23	9	9	
669	Anti-Oxidant Mix Tank	Acetone	8.76	0.11	17	17	
		VOC	2.74	0.08			
670	East A/O Run Tank	Acetone	4.38	0.15	17	17	
671	West Vinyl Acetate Run Tank	VOC	2.74	0.10	17	17	

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
672	Old Run Tank	Acetone	1.97	0.03	17	17	
		Vinyl Acetate	1.54	0.02			
1004	Vulcanizables Fines SeparatorBaghouse	PM	0.20	0.94	6, 7	3, 6, 7	6
		PM_{10}	0.20	0.94			
		$PM_{2.5}$	0.20	0.94			
1011	No. 1 Process Analyzer Vent	VOC	0.01	0.01			
1012	No. 2 Process Analyzer Vent	VOC	0.01	0.01			
1021	Vulcanizables Feeder Vent	PM	0.01	0.01	6, 7	6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
1039	Vulcanizables Blender Vent	VOC	(10)	(10)		3	
1041	Cooling Tower	VOC	0.42	1.84	2, 14, 15	2, 14, 15	2
		PM	0.11	0.49			

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	0.11	0.49			
		$PM_{2.5}$	0.11	0.49			
1051	Process Analyzer Combined Vent	CO	0.01	0.01			
		VOC	0.01	0.01			
1058	Vulcanizables Product Area Baghouse	PM	0.20	0.94	6, 7	3, 6, 7	6
		PM_{10}	0.20	0.94			
		$PM_{2.5}$	0.20	0.94			
1059	No. 1 Classifier Sampler Filter	PM	0.01	0.01	6, 7	6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
1060	No. 2 Classifier Sampler Filter	PM	0.01	0.01	6, 7	6, 7	6
		PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
1061	Vulcanizables Transfer	PM	0.01	0.01	6, 7	3, 6, 7	6

Major NSR Summary Table

Permit Numbers: 2023 and PSDTX118M4					Issuance Date: May 3, 2024		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Filter	PM_{10}	0.01	0.01			
		$PM_{2.5}$	0.01	0.01			
1177	Analyzer Vent	VOC	0.03	0.13			

(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) CO - carbon monoxide
NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) Annual emission limits for the VOC from EPNs 253 through 268 are reflected in the emission rates for EPNs 261 through 268. The hourly and annual PM emissions from EPNs 254 through 268 are reflected in the emission rates for EPNs 261 through 268.
(7) Total VOC emissions from EPNs 253 through 268 are not to exceed 124.1 tons per year (tpy).
(8) Annual emission limits for the VOC from EPNs 270 through 282 are reflected in the emission rates for EPNs 276 through 282. The hourly and annual PM emissions from EPNs 271 through 282 are reflected in the emission rates for EPNs 276 through 282.
(9) Total VOC emissions from EPNs 270 through 282 are not to exceed 118 tpy.
(10) The VOC emissions from this source are accounted for at EPN 549.
(11) Emissions from this flare are only from these permitted facilities.
(12) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.
(13) Annual MSS emissions of individual VOC species for Fuel Gas Burn System including furnace gas header shutdowns/maintenance are limited as indicated. The allowable emission rates listed for individual MSS VOC species from this EPN are included in the Flare 246 total MSS VOC emission rates.

(14) SO2 emissions from the combustion of supplemental natural gas are authorized under NSR Permit No.1567.

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Union Carbide Corporation
Authorizing the Continued Operation of
Ucc Seadrift Operations
Located at **North Seadrift, Calhoun County, Texas**
Latitude 28.510833 Longitude -96.771666

Permit: 2023 and PSDTX118M4

Issuance Date: May 3, 2024

Expiration Date: May 3, 2034

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
µg/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 2023 and PSDTX118M4

EMISSION STANDARDS

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.

   Planned startup and shutdown emissions are authorized for the activities listed in Special Condition 11 and emissions are compliant with the respective MAERT and special conditions of this permit.

FEDERAL APPLICABILITY

2. 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:

   A. Subpart A, General Provisions

   B. Subpart FFFF, Miscellaneous Organic Chemical Manufacturing - MON

OPERATING LIMITS

3. The annual production of each polymer and copolymer is limited to the values specified in the confidential section of the permit application submitted on September 2, 1994. Monthly production records shall be kept and maintained at the plant site. These records shall be made available to representatives of the Texas Commission on Environmental Quality (TCEQ). These records shall be kept for two years after the data is obtained.

4. The combined ethylene emissions to the atmosphere downstream of the extruder shall not exceed 1,100 pounds per million pounds of product produced for each production line. Vinyl acetate emissions from the pellets downstream of the extruder shall not exceed 1,278 pounds per million pounds of product produced. Compliance with this condition shall be demonstrated by quarterly sealed can-gas chromatographic test(s) or other test(s) as approved by the TCEQ Regional Director. Samples for the test(s) shall be taken at the inlet to the spin dryer. Only one set of samples is required per reactor per quarter. Records of each test shall be kept and maintained at the plant site. These records shall be made available to representatives of the TCEQ. These records shall be kept for two years after the data is obtained.

5. New product variations which are produced at this facility shall not exceed the maximum ethylene or vinyl acetate emission levels specified in Special Condition No.4. Compliance with this condition shall be demonstrated by sealed can-gas chromatographic test(s) or other test(s) approved by the TCEQ Regional Director on a sample of pellets from the first run of each new product. Records of the first run of each new product variation and the results of the pellet residual emission tests shall be kept and maintained at the plant site. These records shall be made available to representatives of the TCEQ. These records shall be kept for two years after the data is obtained.

6. Visible emissions from this facility shall be limited as follows:

A. There shall be no visible emissions during normal operation from the following filtered vents: No. 1 Fines/Streamer Filter (Emission Point No. [EPN] 410), No. 2 Fines Separator Dust Collector Fines/Streamer Filter (EPN 411), Fines Separator Dust Collector (EPN 546), Fines Separator Baghouse (EPN 1004), and Feeder Vent (EPN 1021). When there are visible emissions from any one filtered vent, the operation associated with that particular filtered vent shall be isolated and shut down in a timely and orderly manner. Failed or damaged parts shall be repaired or replaced.

B. The holder of this permit shall notify the appropriate TCEQ Regional Office within 24 hours of occurrence when the duration of visible emissions from any source covered by this permit exceeds five minutes in any two-hour period. This notification shall include date and time of occurrence, duration, cause and corrective action taken.

C. These records shall be kept and maintained at the plant site. These records shall be made available to representatives of the TCEQ. These records shall be kept for two years after the data is obtained.

7. All particulate matter (PM) abatement and collection equipment covered by this permit shall be properly maintained and operated during the operation of these facilities. Cleaning and maintenance of the abatement equipment shall be performed, as necessary, so that the equipment efficiency can be adequately maintained. These records shall be kept and maintained at the plant site. These records shall be made available to representatives of the TCEQ. These records shall be kept for two years after the data is obtained. The following steps shall be performed, at a minimum, to ensure the proper operation of the abatement equipment:

A. The exterior of all PM abatement and collection equipment and all connecting duct work shall be inspected quarterly by facility personnel for physical defects such as holes or cracks that may cause leaks and excess emissions or losses in PM removal efficiency.

B. The permit holder shall maintain a spare parts filter inventory for the emission points covered under this permit.

C. The permit holder shall keep a record of each quarterly inspection detailing the results of the inspections including any repairs.

8. Particulate dust collected from all PM abatement and collection equipment shall be disposed of in such a manner to prevent it from becoming airborne.

Piping, Valve, Connectors, Pumps, Agitators, and Compressors – 28VHP

9. The following requirements apply to piping, valves, connectors, pumps, agitators, and compressors containing or in contact with fluids that could reasonably be expected to contain greater than or equal to 10 weight percent volatile organic compounds (VOC) at any time.

A. The requirements of paragraphs F and G shall not apply (1) where the VOC has 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 readily 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, 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 readily 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 recorded. For all other situations, the open-ended valve or line shall be monitored once within the 72 hour 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. 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. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

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. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The gas analyzer shall conform to requirements listed in Method 21 of 40 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.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with automatic seal failure detection and alarm system need not be monitored. These seal systems 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.

H. Damaged or leaking valves or connectors 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. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.

I. 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 within 15 days of the detection of the leak. 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) or 500 pounds, whichever is greater, the TCEQ Regional Manager and any local programs shall be notified and the TCEQ Executive Director 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.

J. 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.

K. Alternative monitoring frequency schedules of 30 TAC 115.352 - 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F and G of this condition.

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

10. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing 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.

11. This permit authorizes emissions from Flare 246 for the following maintenance, start-up, and shutdown activities:

- Fuel gas burn system including furnace gas header shutdowns/maintenance as limited by the MAERT.

- Vent gas compressor start-ups, up to 10 times per rolling 12-month period for a duration of 30 minutes per start-up.

- Vent gas compressor shutdowns, up to 10 times per rolling 12-month period for a duration of 24 hours per shutdown.

- Full blowdown of reactor and recycle gas system for plant maintenance up to four times per rolling 12-month period for a duration of two hours per blow down.

- Short blowdown of reactor for plant maintenance up to 50 times per rolling 12-month period for a duration of fifteen second per event.

· Reactor blowdown only for plant maintenance may occur 68 times per rolling12-month period for a duration of five minutes per event.

Maintenance, start-up, and shutdown activities not in the above list are not authorized by this permit. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The performance of each maintenance activity and the emissions associated with it shall be recorded and the rolling 12-month emissions shall be updated on a monthly basis. These records shall include at least the following information:

A. The physical location at which emissions from the MSS activity occurred, including the emission point number, common name, and any other identifier for the point at which the emissions were released into the atmosphere;

B. The type of planned maintenance, startup, or shutdown activity and the reason for the planned activity;

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

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

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 amendment application and be consistent with good engineering practice.

12. The following unsafe-to-monitor or difficult-to-monitor PSVs are exempt from the monitoring requirements of Special Condition No. 9 and are exempt from the control requirements of Special Condition No. 10 (list actual valve numbers):

PSV N	Description
---------	No. 1 Hyper 2nd Stage Discharge
---------	No. 1 Product Receiver Edward’s Valve
---------	No. 2 Product Receiver Edward’s Valve
PSV 201-1	No. 1 Hyper Interstage
PSV 202-1	No. 2 Hyper Interstage
PSV 202-2	No. 2 Hyper Second Stage Discharge
PSV 537-33	No. 2 Gunk Tank Blowback Supply Line
PSV 592-30	No. 1 Purge Column Vent Condenser Tubes
PSV 623-30	Furnace Gas Suction Separator

PSV 623-31R	No. 2 Furnace Gas
PSV 623-35	No. 1 Furnace Gas
PSV 624-31	Furnace Gas Header
PSV 700-89	Fuel Gas Header

13. The Large Flare (EPN 246) and associated closed vent capture system shall be designed and operated in accordance with the following requirements:

    A. The flare system shall be designed such that the combined assist natural gas and waste stream to the flare meets the 40 CFR § 60.18 specifications of minimum heating value under normal, upset, and maintenance flow conditions. Flare EPN 246 is not subject to maximum tip velocity requirements as specified in 40 CFR § 60.18.

    The heating value shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

    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 or an infrared 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.

    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. This shall be ensured by the use of steam assist to the flare.

    D. The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow and composition to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour.

    The monitors shall be calibrated or have a calibration check performed on an annual basis to meet the following accuracy specifications: the flow monitor shall be ±5.0%, temperature monitor shall be ±2.0% at absolute temperature, and pressure monitor shall be ±5.0 mm Hg.

    Calibration of the analyzer shall follow the procedures and requirements of Section 10.0 of 40 CFR Part 60, Appendix B, Performance Specification 9, as amended through October 17, 2000 (65 FR 61744), except that the multi-point calibration procedure in Section 10.1 of Performance Specification 9 shall be performed at least once every calendar quarter instead of once every month, and the mid-level calibration check procedure in Section 10.2 of Performance Specification 9 shall be performed at least once every calendar week instead of once every 24 hours. The calibration gases used for calibration procedures shall be in accordance with Section 7.1 of Performance Specification 9. Net heating value of the gas combusted in the flare shall be calculated according to the equation given in 40 CFR §60.18(f)(3) as amended through October 17, 2000 (65 FR 61744).

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. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §§60.18(f)(3) and 60.18(f)(4) shall be recorded at least once every hour.

E. The following requirements apply to the closed vent capture system which includes all equipment that contains, collects, and transports air pollutants from a source to Flare EPN 246.

To control pollutants other than particulate, either:

(1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or

(2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

F. All bypasses for Flare EPN 246 shall comply with either of the following requirements:

(1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or

(2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

G. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

14. The VOC associated with cooling tower water shall be monitored monthly with an air stripping system meeting the requirements of the TCEQ Sampling Procedures Manual, Appendix P (dated January 2003 or a later edition) or an approved equivalent sampling method. The heat exchange and cooling tower system shall be maintained so as to minimize VOC emissions. 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 at the plant site for a period of two years. The records shall be made readily available to the TCEQ Executive Director upon request.

This permit does not authorize any emission rates from the cooling tower and heat exchanger system(s) other than those listed on the attached MAERT. Emissions from repairs and delay of repair are not authorized for emission rates in excess of those listed on the attached MAERT.

15. The cooling tower (EPN 1041) shall be operated and monitored in accordance with the following

A. Each cooling tower shall be equipped with drift eliminators having manufacturer’s design assurance of 0.0005% drift or less. Drifts eliminators shall be maintained and inspected at least once in every 24-month period. The permit holder shall maintain records of all inspections and repairs.

B. Total dissolved solids (TDS) shall not exceed 4,920 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.

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 week for TDS, or

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

The ratio of TDS-to-conductivity (in ppmw per µmho/cm or ppmw/siemens) shall be determined by concurrently monitoring TDS and conductivity on a weekly basis.

(3) 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. A sample of cooling tower water shall be taken from the circulated water stream(s) entering the cooling tower. The analysis shall be conducted using the approved methods below:

(1) The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, and 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 D1125-95A (field or routine laboratory testing) or ASTM D1125-95B (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 D(1) and D(2) with written approval from the TCEQ Regional Director. If approved by the TCEQ Regional Director, the permit holder shall submit a permit application to incorporate the alternative sampling and analysis method into the permit within 2 months of the date of written approval.

(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 TDS determined in accordance with Paragraph C of this condition, 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.

16. This condition applies to EPNs 546, 1004, and 1058. All equipment used for conveying of powders or resins to storage silos must be equipped with fabric filters having a maximum filtering velocity of 4.0 feet per minute (ft/min) with mechanical shaking or 7.0 ft/min with air cleaning. Transfer of powders or resins must be accomplished in an enclosed system.

17. Storage and Loading of VOC

A. For the PND Catalyst Feed Tank (EPN 413), all uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum.

B. For purposes of assuring compliance with VOC/Acetone emission limitations, the holder of this permit shall meet the specified throughput limits for the following tanks:

EPN	Throughput Limit based on a rolling 12-month period
413	78,000 gallons per year (gal/yr)
548	508,460 gal/yr
562	448,000 gal/yr
669	92,500 gal/yr
670	49,000 gal/yr
671	47,500 gal/yr
672	2,900 gal/yr

Monthly throughput records shall be kept. 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.

C. Operation without visible liquid leaks or spills shall be maintained at all loading and unloading facilities, regardless of vapor pressure. This does not apply to momentary dripping associated with the initial connection or disconnection of fittings. Sustained dripping from fittings during loading and unloading operations is not permitted. Any liquid spill that occurs during loading and unloading activities shall be cleaned up immediately to minimize air emissions.

18. The records required by the special conditions of this permit shall be maintained in hard copy or electronic format and shall be maintained for at least five years rather than the two-year period specified in General Condition No. 7. These records shall be made immediately available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction.

Referenced Permits

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

Authorization	Source or Activity
Registration No. 169847	HP-2 Vents to Flare
§106.472	Authorized the Anti-Oxidant Tank and Old Run Tank to store Prosil
Registration No. 79798	HP2 Cleaning Furnace

Authorization	Source or Activity
Registration No. 84497	Routing PSVs to Flare
Registration No. 90957	VA Railcar Blowdown to Flare
Registration No. 108571	New Chemical AMSD and New AMSD Feed Vessel
Registration No. 118024	Modernization Project
§106.263	Routine Facility Maintenance

Date: May 3, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2023 and PSDTX118M4

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)
246	Flare (11)(14)	Acetone	0.03	0.02
		CO	25.65	16.74
		NOx	4.97	3.24
		Ethylene (12)	28.60	20.47
		Vinyl Acetate (12)	1.51	1.6
		Ethyl Acrylate (12)	1.20	0.04
		Propylene (12)	6.96	2.66
		Toluene (12)	0.01	0.01
		VOC	38.35	24.83
246	Flare Maintenance, Start-Up, and Shutdown Emissions (MSS) only (11)(14)	Acetone	0.02	0.01
		CO	158.87	12.29
		NOx	31.18	2.41
		VOC	260.53	18.02
		Ethylene (13)		7.42
		Propylene (13)		0.50
		Vinyl Acetate (13)		0.01
		Ethyl Acrylate (13)		0.01
		Vinyltrimethoxysilane (13)		0.01
		Mineral Spirits (13)		0.01
251	Reactor No. 1 Process Fugitives (5)	Acetone	0.07	0.29
		CO	0.01	0.01
		VOC	9.36	41.00
252	No. 1 Cyclone Scrubber Vent	VOC	0.06	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)
253	No. 1 Extruder Drier	Vinyl Acetate	7.00	(6)
		Ethylene	4.00	(6)
		Propylene	0.20	(6)
		Ethyl Acrylate	0.01	(6)
		Acetone	0.07	(6)
		PM	1.30	5.69
		PM_{10}	1.30	5.69
		$PM_{2.5}$	1.30	5.69
254 - 260	No. 1 Primary Storage Bins	Vinyl Acetate	21.73	(6)
		Ethylene	32.00	(6)
		Propylene	1.54	(6)
		Ethyl Acrylate	0.01	(6)
		Acetone	0.58	(6)
		PM		(6)
		PM_{10}		(6)
		$PM_{2.5}$		(6)
261 - 268	No. 1 Bulk Storage Bins	Vinyl Acetate	21.73	19.50 (7)
		Ethylene	32.00	118.00 (7)
		Propylene	1.54	4.67
		Ethyl Acrylate	0.01	0.01
		Acetone	0.58	0.62
		PM	2.05	8.98
		PM_{10}	2.05	8.98
		$PM_{2.5}$	2.05	8.98
269	Reactor No. 2 Process Fugitives (5)	CO	0.60	2.64
		VOC	6.16	26.99

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
270	No. 2 Extruder Drier	Ethylene	4.00	(8)
		Propylene	0.20	(8)
		Acetone	0.07	(8)
		PM	1.30	5.69
		PM_{10}	1.30	5.69
		$PM_{2.5}$	1.30	5.69
271 - 275	No. 2 Primary Storage Bins	Vinyl Acetate	21.73	(8)
		Ethylene	32.00	(8)
		Propylene	1.54	(8)
		Ethyl Acrylate	0.01	(8)
		Acetone	0.58	(8)
		PM	(8)	
		PM_{10}	(8)	
		$PM_{2.5}$	(8)	
276 - 282	No. 2 Bulk Storage Bins	Vinyl Acetate	21.73	19.50 (9)
		Ethylene	32.00	118.00 (9)
		Propylene	1.54	4.67
		Ethyl Acrylate	0.01	0.01
		Acetone	0.58	0.62
		PM	2.05	8.98
		PM_{10}	2.05	8.98
		$PM_{2.5}$	2.05	8.98
A-299	No. 1 Dryer Sampler Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
A-300	No. 2 Dryer Sampler Filter	PM	0.01	0.01
		PM_{10}	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)
		$PM_{2.5}$	0.01	0.01
410	No. 1 Fines Streamer Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
411	No. 2 Fines Streamer Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
413	PND catalyst Feed Tank	VOC	0.45	0.01
546	Vulcanizables Fines Separator Dust Collector	PM	0.20	0.94
		PM_{10}	0.20	0.94
		$PM_{2.5}$	0.20	0.94
547	Vulcanizables Preheat Bin	PM	0.30	0.55
		PM_{10}	0.30	0.55
		$PM_{2.5}$	0.30	0.55
548	Vulcanizables Peroxide Tank	Acetophenone(12)	4.92	0.88
		Cumene (12)	1.23	0.3
		Phenol (12)	1.23	0.3
		Toluene (12)	0.01	0.01
		VOC	12.33	2.19
549	Vulcanizables Holding Bin	Acetophenone (12)	2.00	8.76
		Cumene (12)	0.50	2.19
		Phenol (12)	0.50	2.19
		Toluene (12)	0.01	0.01
		VOC	5.00	21.9
552 and 553	Vulcanizables Cooling Bin Nos. 1 and 2	PM	0.12	0.11
		PM_{10}	0.12	0.11
		$PM_{2.5}$	0.12	0.11

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		VOC	(10)	(10)
562	Mineral Spirits Tank	VOC	0.23	0.01
563	Propylene Unloading Process Fugitives (5)	VOC	0.05	0.23
669	Anti-Oxidant Mix Tank	Acetone	8.76	0.11
		VOC	2.74	0.08
670	East A/O Run Tank	Acetone	4.38	0.15
671	West Vinyl Acetate Run Tank	VOC	2.74	0.10
672	Old Run Tank	Acetone	1.97	0.03
		Vinyl Acetate	1.54	0.02
1004	Vulcanizables Fines SeparatorBaghouse	PM	0.20	0.94
		PM_{10}	0.20	0.94
		$PM_{2.5}$	0.20	0.94
1011	No. 1 Process Analyzer Vent	VOC	0.01	0.01
1012	No. 2 Process Analyzer Vent	VOC	0.01	0.01
1021	Vulcanizables Feeder Vent	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
1039	Vulcanizables Blender Vent	VOC	(10)	(10)
1041	Cooling Tower	VOC	0.42	1.84
		PM	0.11	0.49
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.11	0.49
1051	Process Analyzer Combined Vent	CO	0.01	0.01
		VOC	0.01	0.01
1058	Vulcanizables Product Area Baghouse	PM	0.20	0.94
		PM_{10}	0.20	0.94

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
		$PM_{2.5}$	0.20	0.94
1059	No. 1 Classifier Sampler Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
1060	No. 2 Classifier Sampler Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
1061	Vulcanizables Transfer Filter	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
1177	Analyzer Vent	VOC	0.03	0.13

(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) CO - carbon monoxide
NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
(6) Annual emission limits for the VOC from EPNs 253 through 268 are reflected in the emission rates for EPNs 261 through 268. The hourly and annual PM emissions from EPNs 254 through 268 are reflected in the emission rates for EPNs 261 through 268.
(7) Total VOC emissions from EPNs 253 through 268 are not to exceed 124.1 tons per year (tpy).
(8) Annual emission limits for the VOC from EPNs 270 through 282 are reflected in the emission rates for EPNs 276 through 282. The hourly and annual PM emissions from EPNs 271 through 282 are reflected in the emission rates for EPNs 276 through 282.
(9) Total VOC emissions from EPNs 270 through 282 are not to exceed 118 tpy.
(10) The VOC emissions from this source are accounted for at EPN 549.
(11) Emissions from this flare are only from these permitted facilities.
(12) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.
(13) Annual MSS emissions of individual VOC species for Fuel Gas Burn System including furnace gas header shutdowns/maintenance are limited as indicated. The allowable emission rates listed for individual MSS VOC species from this EPN are included in the Flare 246 total MSS VOC emission rates.
(14) SO2 emissions from the combustion of supplemental natural gas are authorized under NSR Permit No.1567.

Date: May 3, 2024