

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Chevron Phillips Chemical Company, LP

AUTHORIZING THE OPERATION OF

Pasadena Plastics Complex

Polyethylene Units

Plastics Materials

LOCATED AT

Harris County, Texas

Latitude 29° 43' 40" Longitude 95° 10' 52"

Regulated Entity Number: RN102018322

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: 01315 Issuance Date: \_\_\_\_\_

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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, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.890 which incorporates the 40 CFR Part 63 Subpart by reference.
- F. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
- G. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- H. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
  - (i) Title 30 TAC § 101.352 (relating to General Provisions)

- (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
  - (vi) Title 30 TAC § 101.359 (relating to Reporting)
  - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
  - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- I. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
  - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
- J. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:
- (i) Title 30 TAC § 101.393 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.394 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.396 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.399 (relating to Allowance Banking and Trading)

- (v) Title 30 TAC § 101.400 (relating to Reporting)
- (vi) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit

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

- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
- B. Title 30 TAC § 101.3 (relating to Circumvention)
- C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
- D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
- E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
- F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
- G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
- H. Title 30 TAC § 101.221 (relating to Operational Requirements)
- I. Title 30 TAC § 101.222 (relating to Demonstrations)
- J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

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

- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
  - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)

- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, 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<sub>x</sub>, 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. Permit holders for sites that have materials handling, construction, roads, streets, alleys, and parking lots shall comply with the following requirements:

- (i) Title 30 TAC § 111.143 (relating to Materials Handling)
- (ii) Title 30 TAC § 111.145 (relating to Construction and Demolition)
- (iii) Title 30 TAC § 111.147 (relating to Roads, Streets, and Alleys)
- (iv) Title 30 TAC § 111.149 (relating to Parking Lots)

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

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

- (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
  - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
  - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
  - (iii) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)
  - (iv) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
  - (v) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 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(e)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
    - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
    - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
    - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
    - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)

6. The permit holder shall comply with the following 30 TAC Chapter 115, Subchapter F requirements (relating to Cutback Asphalt Requirements):
  - A. Title 30 TAC § 115.512(2) (relating to Control Requirements)
  - B. Title 30 TAC § 115.512(3) (relating to Control Requirements)
7. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:
  - A. For the degassing of all transport vessels with a nominal capacity of 8,000 gallons or more, the permit holder shall comply with the following requirements:
    - (i) Title 30 TAC § 115.541(a) - (c) and (d) (relating to Emission Specifications)
    - (ii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
    - (iii) Title 30 TAC § 115.542(b), (c) and (e) (relating to Control Requirements)
    - (iv) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
    - (v) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
    - (vi) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
    - (vii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
    - (viii) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
    - (ix) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring

- (x) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
  - (xi) Title 30 TAC § 115.545(1) - (11) and (13) (relating to Approved Test Methods)
  - (xii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
  - (xiii) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
  - (xiv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)
  - (xv) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification
8. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter H, Division 1 for pressure relief devices not controlled by a flare:
- A. Title 30 TAC § 115.725(c)
  - B. Title 30 TAC § 115.725(c)(1), (c)(1)(A) - (C)
  - C. Title 30 TAC § 115.725(c)(2)
  - D. Title 30 TAC § 115.725(c)(3), (c)(3)(A) - (E)
  - E. Title 30 TAC § 115.725(c)(4)
  - F. Title 30 TAC § 115.725(l)
  - G. Title 30 TAC § 115.726(c), (c)(1) - (4)
9. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams having no potential to emit HRVOC.
10. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams from sources exempt under 30 TAC § 115.727(c)(3).
11. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
12. 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.
  13. 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).
  14. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).
  15. 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**

16. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
  - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
  - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
  - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM 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 in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
  - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
  - E. The permit holder shall comply with either of the following requirements for any capture system associated with the VOC control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions:
    - (i) Once a year the permit holder shall inspect the capture system in compliance of CAM for leaks 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 ppm above background or as defined by the underlying applicable requirement; or
    - (ii) Once a month, the permit holder shall conduct a visual, audible, and/or olfactory inspection of the capture system in compliance of CAM to detect leaking components.

- F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
- 17. 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 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**

- 18. 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, 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
- 19. 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.
- 20. 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**

21. 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.
22. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
      - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
23. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:

- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)
- (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
- (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

24. 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**

- 25. 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**

- 26. 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.
  - B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.
  - C. The permit holder shall comply with 40 CFR Part 82, Subpart F related to the disposal requirements for appliances using Class I or Class II (ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.
  - D. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

## **Alternative Requirements**

27. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the EPA Administrator and TCEQ Executive Director), demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

## **Permit Location**

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

## **Permit Shield (30 TAC § 122.148)**

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

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

**Alternative Requirement**

## **Applicable Requirements Summary**

**Unit Summary ..... 21**

**Applicable Requirements Summary ..... 35**

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
216	FLARES	N/A	R1111-002	30 TAC Chapter 111, Visible Emissions	No changing attributes.
216	FLARES	N/A	R5720-0233	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
216	FLARES	N/A	60A-002	40 CFR Part 60, Subpart A	No changing attributes.
216	FLARES	N/A	63A-002	40 CFR Part 63, Subpart A	No changing attributes.
216HEADER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5720-0505	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
305A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R111-003	30 TAC Chapter 111, Visible Emissions	No changing attributes.
308	FLARES	N/A	R1111-002	30 TAC Chapter 111, Visible Emissions	No changing attributes.
308	FLARES	N/A	R5720-0233	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
308	FLARES	N/A	60A-002	40 CFR Part 60, Subpart A	No changing attributes.
308	FLARES	N/A	63A-002	40 CFR Part 63, Subpart A	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
308HEADER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5720-0505	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
408	FLARES	N/A	R1111-002	30 TAC Chapter 111, Visible Emissions	No changing attributes.
408	FLARES	N/A	R5720-0233	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
408	FLARES	N/A	60A-002	40 CFR Part 60, Subpart A	No changing attributes.
408	FLARES	N/A	63A-002	40 CFR Part 63, Subpart A	No changing attributes.
408HEADER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5720-0505	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
413	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5720-0502	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
413	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
455	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5720-0502	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
455	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
65.2	STORAGE TANKS/VESSELS	N/A	R5112-00a	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
65.2-L	LOADING/UNLOADING OPERATIONS	N/A	R5211-205a	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
900	FUGITIVE EMISSION UNITS	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
900	FUGITIVE EMISSION UNITS	N/A	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
900	FUGITIVE EMISSION UNITS	N/A	63FFFF-FUG	40 CFR Part 63, Subpart FFFF	No changing attributes.
901	FUGITIVE EMISSION UNITS	N/A	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
901	FUGITIVE EMISSION UNITS	N/A	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
901	FUGITIVE EMISSION UNITS	N/A	63FFFF-FUG	40 CFR Part 63, Subpart FFFF	No changing attributes.
ENG101A	SRIC ENGINES	N/A	R7300-0018	30 TAC Chapter 117, Subchapter B	No changing attributes.
ENG101A	SRIC ENGINES	N/A	60III-0001	40 CFR Part 60, Subpart III	No changing attributes.
ENG101A	SRIC ENGINES	N/A	63ZZZZ-0006	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
ENG102A	SRIC ENGINES	N/A	R7300-0019	30 TAC Chapter 117, Subchapter B	No changing attributes.
ENGADMIN	SRIC ENGINES	N/A	R7300-0019	30 TAC Chapter 117, Subchapter B	No changing attributes.
ENGINE6	SRIC ENGINES	N/A	R7300-0106	30 TAC Chapter 117, Subchapter B	No changing attributes.
ENGWTRWELL	SRIC ENGINES	N/A	R7300-0110	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPCATACT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	1001, 1002, 1003, 1003A, 1003B	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPCATACT	CHEMICAL MANUFACTURING PROCESS	1001, 1002, 1003, 1003A, 1003B	63FFFF-G2BPV	40 CFR Part 63, Subpart FFFF	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPCLTWR	INDUSTRIAL PROCESS COOLING TOWERS	260, 307, 407	R5780-001	30 TAC Chapter 115, HRVOC Cooling Towers	No changing attributes.
GRPDDDFUG	FUGITIVE EMISSION UNITS	259, 306, 406	R5780-ALL	30 TAC Chapter 115, HRVOC Fugitive Emissions	No changing attributes.
GRPDDDFUG	FUGITIVE EMISSION UNITS	259, 306, 406	R5352-ALL	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	No changing attributes.
GRPDDDFUG	FUGITIVE EMISSION UNITS	259, 306, 406	60DDD-ALL	40 CFR Part 60, Subpart DDD	No changing attributes.
GRPDDDFUG	FUGITIVE EMISSION UNITS	259, 306, 406	63FFFF-FUG	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPDEGREAS	SOLVENT DEGREASING MACHINES	DEG-1, DEG-2, DEG-3, DEG-4, DEG-7	R5412-001	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
GRPE6PELT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	208, 209, 210, 254, 255, 257	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPE7PELT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	304, 312, 354	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPE8PELT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	404, 454	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPHCSPVSL	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	HCS-95-05, HCS- 95-06, HCS-95- 08, HCS-95-09, HCS-95-11, HCS- 95-12	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPHCSPVSL	STORAGE TANKS/VESSELS	HCS-95-03	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPHCSTANK	STORAGE TANKS/VESSELS	HCS-95-02, HCS- 95-07, HCS-95-10	R5112-052	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRPHCSTANK	STORAGE TANKS/VESSELS	HCS-95-02, HCS- 95-07, HCS-95-10	60Kb-36	40 CFR Part 60, Subpart Kb	No changing attributes.
GRPHEATER	PROCESS HEATERS/FURNACES	1000, 146, 170, 83, 86	R7300-2001	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPHR1K-	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	217, 261, 311, 313, 355	R5720-0502	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
GRPHR1K-	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	217, 261, 311, 313, 355	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPHRVOCAN	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	AI-03603, AI-03611, AI-53199, AI53199-P8, AI-63199, AI63199-P8, AI73228-P6, AI83228-P7, AI83811-P6, AI93811-P7, AI93811-P8	R5720-0559	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
GRPOLYVNT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	206, 207, 252, 253, 256	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPOLYVNT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	302, 303, 352, 353, 356	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPOLYVNT3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	201, 250, 300, 350, 400, 450	R5720-0559	30 TAC Chapter 115, HRVOC Vent Gas	No changing attributes.
GRPOLYVNT3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	201, 250, 300, 350, 400, 450	R5121-34	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPPLYVNT4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	402, 403, 452, 453, 456	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPPECVENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-1, P6-V-15, P6-V-9, P7-V-1, P7-V-15, P7-V-9, P8-V-1, P8-V-15, P8-V-9	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPPEG1BPV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-16, P7-V-16, P7-V-17, P8-V-14, P8-V-16, P8-V-17	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPPEG1BPV	CHEMICAL MANUFACTURING PROCESS	P6-V-16, P7-V-16, P7-V-17, P8-V-14, P8-V-16, P8-V-17	63FFFF-G1BPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPPEG1CPV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-2, P7-V-2, P8-V-2	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPPEG1CPV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-2, P7-V-2, P8-V-2	63FFFF-G1CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPPEG2CPV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-10, P6-V-11, P6-V-7, P6-V-8, P7-V-10, P7-V-7, P7-V-8, P8-V-10, P8-V-18, P8-V-7, P8-V-8	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPPEG2CPV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-V-10, P6-V-11, P6-V-7, P6-V-8, P7-V-10, P7-V-7, P7-V-8, P8-V-10, P8-V-18, P8-V-7, P8-V-8	63FFFF-G2CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
GRPPESCV	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	P6-95-118, P6-95- 15, P6-95-17, P6- 952118, P7-951118, P7-95-16, P7-95- 18, P7-952118, P8- 951118, P8-951147, P8-95-146, P8- 952118, P8-952147	R5121-4	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRPUTLCOMP	SRIC ENGINES	UTILPCOMP1, UTILPCOMP2, UTILPCOMP3	R7300-0128	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPUTLCOMP	SRIC ENGINES	UTILPCOMP1, UTILPCOMP2, UTILPCOMP3	63ZZZZ-0009	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPUTLFW	SRIC ENGINES	ENGINE1, ENGINE2, ENGINE3, ENGINE4, ENGINE5	R7300-0019	30 TAC Chapter 117, Subchapter B	No changing attributes.
P7-V-19	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-23	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
PE6-95-147	STORAGE TANKS/VESSELS	N/A	R5112-008	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
PE7-95-147	STORAGE TANKS/VESSELS	N/A	R5112-008	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
PE8-95-147	STORAGE TANKS/VESSELS	N/A	R5112-008	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
PE8-AV16B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-G2CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
PE8-AV1B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63FFFF-G2CPV	40 CFR Part 63, Subpart FFFF	No changing attributes.
PROCATCT <sub>3</sub>	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-7	40 CFR Part 60, Subpart DDD	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PROGPHCAE	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-5a	40 CFR Part 60, Subpart DDD	No changing attributes.
PROGPHCCT	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-8	40 CFR Part 60, Subpart DDD	No changing attributes.
PROGPHCT3	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-7	40 CFR Part 60, Subpart DDD	No changing attributes.
PROGPHCWP	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-6	40 CFR Part 60, Subpart DDD	No changing attributes.
PROGPHICT	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-2	40 CFR Part 60, Subpart DDD	No changing attributes.
PROHACCAE	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-5a	40 CFR Part 60, Subpart DDD	No changing attributes.
PROHACCCT	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-8	40 CFR Part 60, Subpart DDD	No changing attributes.
PROHACCWP	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-6	40 CFR Part 60, Subpart DDD	No changing attributes.
PROHACICT	POLYMER MANUFACTURING PROCESSES	N/A	6oDDD-2	40 CFR Part 60, Subpart DDD	No changing attributes.

## Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PROPAINT	SURFACE COATING OPERATIONS	N/A	R5421-001	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
PROPE6CAE	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-5a	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE6CCT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-8	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE6CWP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-6	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE6ICT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-2	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE6ISF	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE7CAE	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-5a	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE7CCT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-8	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE7CWP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-6	40 CFR Part 60, Subpart DDD	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PROPE7ICT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-2	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE7ISF	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE8CAE	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-5a	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE8CCT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-8	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE8CWP	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-6	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE8ICT	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-2	40 CFR Part 60, Subpart DDD	No changing attributes.
PROPE8ISF	POLYMER MANUFACTURING PROCESSES	N/A	60DDD-3	40 CFR Part 60, Subpart DDD	No changing attributes.
TRK-ETHYL	LOADING/UNLOADIN G OPERATIONS	N/A	R5211-205	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
UST-3	STORAGE TANKS/VESSELS	N/A	R5112-00a	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
UST-3-L	LOADING/UNLOADING OPERATIONS	N/A	R5211-205a	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
UTL-95-02	STORAGE TANKS/VESSELS	N/A	R5112-008	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
UTL-95-19	STORAGE TANKS/VESSELS	N/A	R5112-008	30 TAC Chapter 115, Storage of VOCs	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)
216	EU	R1111-002	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
216	EP	R5720-0233	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)

## 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)
216	CD	60A-002	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6) **See Alternative Requirements	None	None
216	CD	63A-002	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) **See Alternative Requirements	None	None
216HEADER	EP	R5720-0505	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.722(d) § 115.722(d)(1) § 115.722(d)(2)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(n)	§ 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n)
305A	EP	R111-003	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F)	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
308	EU	R1111-002	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
308	EP	R5720-0233	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)

## 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)
308	CD	60A-002	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6) **See Alternative Requirements	None	None
308	CD	63A-002	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) **See Alternative Requirements	None	None
308HEADER	EP	R5720-0505	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.722(d) § 115.722(d)(1) § 115.722(d)(2)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(n)	§ 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n)
408	EU	R1111-002	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.11(a).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	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)
408	EP	R5720-0233	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2)	All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.	[G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n)	§ 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2)
408	CD	60A-002	OPACITY	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6) **See Alternative Requirements	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
408	CD	63A-002	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(8)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) **See Alternative Requirements	None	None
408HEADER	EP	R5720-0505	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.722(d) § 115.722(d)(1) § 115.722(d)(2)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(n)	§ 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	§ 115.725(n)

## 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)
413	EP	R5720-0502	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.727(c)(2)	A vent gas stream that has the potential to emit HRVOCs, but has a concentration less than 100 ppmv at all times or has a maximum potential flow rate equal to or less than 100 dry standard cubic feet per hour is exempt from this division with the exception of § 115.726(e)(3)(A) of this title. The maximum potential HRVOC emissions for the sum of all vent gas streams claimed under this exemption, must be less for the account specified in § 115.722(a) or (b) of this title than 0.5 tpy.	None	§ 115.726(e)(3)(A) § 115.726(j)(2)	None
413	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
455	EP	R5720-0502	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.727(c)(2)	A vent gas stream that has the potential to emit HRVOCs, but has a concentration less than 100 ppmv at all times or has a maximum potential flow rate equal to or less than 100 dry standard cubic feet per hour is exempt from this division with the exception of § 115.726(e)(3)(A) of this title. The maximum potential HRVOC emissions for the sum of all vent gas streams claimed under this exemption, must be less for the account specified in § 115.722(a) or (b) of this title than 0.5 tpy.	None	§ 115.726(e)(3)(A) § 115.726(j)(2)	None
455	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
65.2	EU	R5112-00a	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
65.2-L	EU	R5211-205a	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (f) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(f)	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)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.725(c)(1) § 115.725(c)(2) [G]§ 115.725(c)(3) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 [G]§ 115.725(c)(1) § 115.725(c)(2) [G]§ 115.725(c)(3) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.725(c)(4) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

## 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)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) ) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) § 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(d)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(d)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(d)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains, contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(12)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, in an emergency shutdown system or containing materials that would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system, and contacting a process fluid with a TVP < 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, in an emergency shutdown system or containing materials that would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system, and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, rated > 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated 10,000 psig or greater and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No valves, rated 10,000 psig or greater and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No valves, rated 10,000 psig or greater and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(12)	No flanges, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No flanges, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No compressor seal, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7)	No compressor seal, in hydrogen service or equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8)	No compressor seals, contacting a process fluid with a TVP >0.044 psia, not in hydrogen service or not equipped with a shaft seal, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No pump seals, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7)	No pump seal, equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8)	No pump seals, contacting a process fluid with a TVP >0.044 psia and not equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
900	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
900	EU	63FFFF-FUG	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 requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(a)	Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (f) of this title (relating to Record keeping Requirements).	None	§ 115.786(e) § 115.786(f)	None
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

## 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)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.725(c)(1) § 115.725(c)(2) [G]§ 115.725(c)(3) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 [G]§ 115.725(c)(1) § 115.725(c)(2) [G]§ 115.725(c)(3) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.725(c)(4) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) ) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) § 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(e) § 115.786(f) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(d)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(d)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(B) § 115.787(d)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in the Houston/ Galveston/Brazoria area in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.780(a) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) § 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) § 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division.	§ 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(f)	§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1)	No process drains, contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7)	No process drains, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(12)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8)	No pressure relief valves (gaseous service), contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, longer than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, in an emergency shutdown system or containing materials that would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system, and contacting a process fluid with a TVP < 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, in an emergency shutdown system or containing materials that would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system, and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, rated > 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated 10,000 psig or greater and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No open-ended valves or lines, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No valves, rated 10,000 psig or greater and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No valves, rated 10,000 psig or greater and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(12)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP less than or equal to 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8)	No valves, rated less than or equal to 10,000 psig and contacting a process fluid with a TVP greater than 0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(8) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	[G]§ 115.354(7)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(12)	No flanges, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No flanges, contacting a process fluid with a TVP >0.044 psia, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No compressor seal, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7)	No compressor seal, in hydrogen service or equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8)	No compressor seals, contacting a process fluid with a TVP >0.044 psia, not in hydrogen service or not equipped with a shaft seal, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1)	No pump seals, contacting a process fluid with a TVP of 0.044 psia or less, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7)	No pump seal, equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(2) § 115.352(2)(A) [G]§ 115.352(2)(C) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(8)	No pump seals, contacting a process fluid with a TVP >0.044 psia and not equipped with a shaft seal system, shall be allowed to have a VOC leak, for more than 15 days after discovery, exceeding the specified VOC concentration.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(4)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

## 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)
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
901	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
901	EU	63FFFF-FUG	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 requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ENG101A	EU	R7300-0018	EXEMPT	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
ENG101A	EU	60III-0001	No Pollutant Associated with these Requirements	40 CFR Part 60, Subpart IIII	§ 60.4200(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart IIII	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart IIII

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ENG101A	EU	63ZZZZ-0006	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	A new/reconstructed stationary RICE located at an area source, or located at a major source of HAP emissions and is a spark ignition (SI) 2SLB < 500 HP, SI 4 SLB < 250 HP, or 4SRB, compression ignition (CI), emergency or limited use, or which combusts landfill or digester gas at > 10% of the gross heat input < 500 HP must meet the requirements of this part by meeting the requirements of 40 CFR Part 60, Subpart IIII, for CI engines or 40 CFR Part 60, Subpart JJJJ, for SI engines.	None	None	None
ENG102A	EU	R7300-0019	EXEMPT	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ENGADMIN	EU	R7300-0019	EXEMPT	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
ENGINE6	EU	R7300-0106	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vii)(II) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c)

## 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)
ENGINE6	EU	R7300-0106	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(h)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)
ENGWTRWELL	EU	R7300-0110	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) [G]§ 117.345(e)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) [G]§ 117.345(e)
ENGWTRWELL	EU	R7300-0110	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(h)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) [G]§ 117.345(e)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPCATAC T	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPCATAC T	EU	63FFFF-G2BPV	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 requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
GRPCLTWR	EU	R5780-001	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Cooling Towers	§ 115.761(c)(1) § 115.761(c)(3) § 115.766(i)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 1 of this subchapter must not exceed 1,200 pounds of HRVOCs per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.764(c) § 115.764(f)	§ 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1)	§ 115.766(i)(2)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

### 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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

## 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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g)	All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection.	§ 115.782(d)(2)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

### 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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.784(a) § 115.780(b) § 115.910	The executive director may approve alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division (relating to Fugitive Emissions) in accordance with §115.910 of this title (relating to Availability of Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent.	§ 115.784(b)	None	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii)	Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

## 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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) ) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g)

## 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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1)	Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b)	Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g)	[G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(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)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv)	Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3)	§ 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g)	[G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5780-ALL	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Fugitive Emissions	§ 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g)	Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B)	§ 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g)	§ 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(6)	Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(5)	Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(10)	Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(11)	Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(13)	Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title.	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.357(2) § 115.352(9)	Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).	None	§ 115.356 § 115.356(3) [G]§ 115.356(3)(C)	None

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GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.353(a) § 115.353(b) § 115.910	For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent.	None	None	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h)	No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.	§ 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f)	§ 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5)	[G]§ 115.358(g)

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

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GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9)	No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9)	No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	[G]§ 115.354(7)

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

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

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

### 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)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8)	No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

### 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)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	[G]§ 115.355	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None

### Applicable Requirements Summary

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

## 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)
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1)	§ 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5)	None
GRPDDDFUG	EU	R5352-ALL	VOC	30 TAC Chapter 115, Pet. Refinery & Petrochemicals	§ 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8)	No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.	§ 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355	§ 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5)	None
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-2 for pumps in light-liquid service.	[G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)

## 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)
GRPDDDFUG	EU	6oDDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-3 for compressors.	[G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	6oDDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-4 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-4 for pressure relief devices in gas/vapor service.	[G]§ 60.482-4 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	6oDDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-5 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-5 for sampling connection systems.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	6oDDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-6 for open-ended valves and lines.	§ 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)

## 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)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 60.562-2(b) § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-7 for valves in gas/vapor or light-liquid service.	[G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for pumps in heavy-liquid service.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for valves in heavy-liquid service.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for pressure relief devices in light-liquid service.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)

## 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)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 § 60.562-2(d) § 60.562-2(e)	Comply with the requirements in as stated in §60.482-8 for flanges or other connectors.	[G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.565(l)
GRPDDDFUG	EU	60DDD-ALL	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-2(a) § 60.482-1(d) § 60.562-2(e)	Comply with the requirements as stated in §60.482-1(d) for equipment in vacuum service.	None	§ 60.486(e) § 60.486(e)(1) § 60.486(e)(5)	§ 60.562-2(e)
GRPDDDFUG	EU	63FFFF-FUG	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 requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF
GRPDEGREAS	EU	R5412-001	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) [G]§ 115.412(1)(A) § 115.412(1)(C) [G]§ 115.412(1)(F) § 115.417(1)	Cold solvent cleaning. No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F).	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
GRPE6PELT	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPE7PELT	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPE8PELT	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPHCSPV SL	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
GRPHCSPV SL	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2)	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

## 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)
GRPHCSTANK	EU	R5112-052	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None
GRPHCSTANK	EU	60Kb-36	VOC	40 CFR Part 60, Subpart Kb	[G]§ 60.112b(a)(3) § 60.18	Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).	§ 60.113b(d) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b § 60.115b(d)(2) § 60.116b(a) § 60.116b(b)	§ 60.115b § 60.115b(d)(1) § 60.115b(d)(3)
GRPHEATER	EU	R7300-2001	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c)

## 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)
GRPHEATER	EU	R7300-2001	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g)	§ 117.345(a) § 117.345(f) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)
GRPHR1K-	EP	R5720-0502	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.727(c)(2)	A vent gas stream that has the potential to emit HRVOCs, but has a concentration less than 100 ppmv at all times or has a maximum potential flow rate equal to or less than 100 dry standard cubic feet per hour is exempt from this division with the exception of § 115.726(e)(3)(A) of this title. The maximum potential HRVOC emissions for the sum of all vent gas streams claimed under this exemption, must be less for the account specified in § 115.722(a) or (b) of this title than 0.5 tpy.	None	§ 115.726(e)(3)(A) § 115.726(j)(2)	None
GRPHR1K-	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPHRVOC AN	EU	R5720-0559	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.725(a)(1)(A) § 115.725(a)(1)(B) § 115.725(a)(1)(C) § 115.725(a)(3) [G]§ 115.725(a)(4) [G]§ 115.725(l)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(a)(1)(A) § 115.725(a)(1)(B) § 115.725(a)(1)(C) § 115.725(a)(3) § 115.725(a)(3)(B) [G]§ 115.725(a)(4) § 115.725(a)(5) [G]§ 115.725(b)(2) [G]§ 115.725(l) § 115.725(n)	§ 115.726(b)(2) § 115.726(b)(3) § 115.726(b)(7) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	[G]§ 115.725(a)(4) § 115.725(a)(5) § 115.725(n)
GRPOLYVN T1	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPOLYVN T2	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPOLYVN T3	EP	R5720-0559	HIGHLY REACTIVE VOC	30 TAC Chapter 115, HRVOC Vent Gas	§ 115.722(c)(1) § 115.722(c)(3) § 115.725(a)(1)(A) § 115.725(a)(1)(B) § 115.725(a)(1)(C) § 115.725(a)(3) [G]§ 115.725(a)(4) [G]§ 115.725(l)	HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination.	§ 115.725(a)(1)(A) § 115.725(a)(1)(B) § 115.725(a)(1)(C) § 115.725(a)(3) [G]§ 115.725(a)(4) § 115.725(a)(5) [G]§ 115.725(b)(2) [G]§ 115.725(l) § 115.725(n)	§ 115.726(b)(2) § 115.726(b)(3) § 115.726(b)(7) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2)	[G]§ 115.725(a)(4) § 115.725(a)(5) § 115.725(n)

## 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)
GRPOLYVN T3	EP	R5121-34	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(3)(A) [G]§ 115.122(a)(4) § 115.127(a)(3)	A vent gas stream having a combined weight of VOC < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from the requirements of §115.121(a)(2)(B)-(E) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPOLYVN T4	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRPPECVE NT	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
GRPPEG1BP V	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(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)
GRPPEG1BP V	EP	63FFFF-G1BPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).	[G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) [G]§ 63.999(c)(2) § 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)
GRPPEG1CP V	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

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GRPPEG1CPV	EP	63FFFF-G1CPV	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) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.987(b)(1) § 63.987(b)(3) [G]§ 63.997(c)(1) § 63.997(c)(3)	For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	[G]§ 63.115(d)(2)(v) § 63.115(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) § 63.983(d)(1)(ii) [G]§ 63.987(b)(3)(i) § 63.987(b)(3)(ii) § 63.987(b)(3)(iii) § 63.987(b)(3)(iv) § 63.987(c) § 63.997(a) [G]§ 63.997(c)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii)	§ 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(b)(1) § 63.987(c) § 63.998(a)(1) [G]§ 63.998(a)(1)(i) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5)	§ 63.2450(f)(2)(ii) § 63.2450(q) § 63.987(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) [G]§ 63.999(a)(2) § 63.999(b)(5) § 63.999(c)(1) [G]§ 63.999(c)(2) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) § 63.999(c)(7) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2)
GRPPEG2CPV	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None

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GRPPEG2C PV	EP	63FFFF- G2CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(b) § 63.2455(b)(1) § 63.2455(b)(2) § 63.2455(b)(3)	For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1)-(3) of this section.	§ 63.115(d) [G]§ 63.115(d)(1) § 63.115(d)(2) § 63.115(d)(2)(i) [G]§ 63.115(d)(2)(ii) § 63.115(d)(2)(iii) § 63.115(d)(2)(iv) § 63.115(d)(3)(i) § 63.115(d)(3)(ii)	None	None
GRPPESCV	EP	R5121-4	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.121(a)(1) § 115.122(a)(1) § 115.122(a)(1)(B) § 60.18	No person may allow a vent gas stream containing VOC to be emitted from any process vent, unless the vent gas stream is burned properly in accordance with §115.122(a)(1) of this title.	[G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) ** See CAM Summary	§ 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2)	None
GRPUTLCO MP	EU	R7300- 0128	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(E)(vii) i)(II) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) [G]§ 117.310(f) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(C) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c)

## 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)
GRPUTLCO MP	EU	R7300-0128	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(h)	§ 117.345(a) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(3) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c)
GRPUTLCO MP	EU	63ZZZZ-0009	EXEMPT	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1)	An affected source which meets either of the criteria in paragraph (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of 63.6645(d).	None	None	§ 63.6640(e) § 63.6645(f) § 63.6645(h) § 63.6645(h)(1) § 63.6645(h)(2)
GRPUTLFW	EU	R7300-0019	EXEMPT	30 TAC Chapter 117, Subchapter B	§ 117.303(a)(6)(D) [G]§ 117.310(f)	Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include stationary gas turbines and stationary internal combustion engines that are used exclusively in emergency situations, except that operation for testing or maintenance purposes is allowed for up to 52 hours per year, based on a rolling 12-month average.	None	§ 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None

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P7-V-19	EP	R5121-23	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1).	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
PE6-95-147	EU	R5112-008	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None
PE7-95-147	EU	R5112-008	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(d)(1) § 115.112(d)(3)	No person shall place, store, or hold in any stationary tank, reservoir, or other container any VOC unless such container is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere, or is equipped with at least the control device specified in either Table I(a) of subsection (a)(1) of this section for VOC other than crude oil and condensate, or Table II(a) of subsection (a)(1) of this section for crude oil and condensate.	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PE8-95-147	EU	R5112-008	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None
PE8-AV16B	EP	63FFFF-G2CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(b) § 63.2455(b)(1) § 63.2455(b)(2) § 63.2455(b)(3)	For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1)-(3) of this section.	§ 63.115(d) [G]§ 63.115(d)(1) § 63.115(d)(2) § 63.115(d)(2)(i) [G]§ 63.115(d)(2)(ii) § 63.115(d)(2)(iii) § 63.115(d)(2)(iv) § 63.115(d)(3)(i) § 63.115(d)(3)(ii)	None	None
PE8-AV1B	EP	63FFFF-G2CPV	112(B) HAPS	40 CFR Part 63, Subpart FFFF	§ 63.2455(b) § 63.2455(b)(1) § 63.2455(b)(2) § 63.2455(b)(3)	For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1)-(3) of this section.	§ 63.115(d) [G]§ 63.115(d)(1) § 63.115(d)(2) § 63.115(d)(2)(i) [G]§ 63.115(d)(2)(ii) § 63.115(d)(2)(iii) § 63.115(d)(2)(iv) § 63.115(d)(3)(i) § 63.115(d)(3)(ii)	None	None
PROCATCT3	PRO	60DDD-7	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)

## 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)
PROGPHCAE	PRO	6oDDD-5a	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROGPHCCT	PRO	6oDDD-8	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROGPHCT3	PRO	6oDDD-7	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(b)(2) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(l)

## 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)
PROGPHC WP	PRO	6oDDD-6	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROGPHC T	EU	6oDDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction /replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROHACCA E	PRO	6oDDD-5a	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROHACCT	PRO	6oDDD-8	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROHACCP	PRO	6oDDD-6	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROHACCT	EU	6oDDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction /replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)

## 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)
PROPAINT	PRO	R5421-001	VOC	30 TAC Chapter 115, Surface Coating Operations	§ 115.421(a)(9)(A)(ii) § 115.421(a) § 115.421(a)(9)(B) § 115.421(a)(9)(C) § 115.426 § 115.427(a)(6)	Emissions shall not exceed 3.5 lbs/gal (0.42 kg/L) of coating (minus water and exempt solvent) delivered as a low-bake coating or that utilizes air or forced air driers.	§ 115.424(a) § 115.424(b) [G]§ 115.425(1) § 115.425(6) [G]§ 115.426(1)	[G]§ 115.426(1)	None
PROPE6CA E	PRO	60DDD-5a	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROPE6CCT	PRO	60DDD-8	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)

## 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)
PROPE6CWP	PRO	6oDDD-6	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROPE6ICT	EU	6oDDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction /replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROPE6ISF	PRO	6oDDD-3	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(h)	Emergency vent streams, as defined in §60.561, from a new, modified, or reconstructed polypropylene or polyethylene affected facility are exempt from the requirements of §60.562-1(a)(2).	None	None	None
PROPE7CAE	PRO	6oDDD-5a	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROPE7CCT	PRO	6oDDD-8	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROPE7CWP	PRO	6oDDD-6	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROPE7ICT	EU	6oDDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction /replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)

## 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)
PROPE7ISF	PRO	6oDDD-3	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(h)	Emergency vent streams, as defined in §60.561, from a new, modified, or reconstructed polypropylene or polyethylene affected facility are exempt from the requirements of §60.562-1(a)(2).	None	None	None
PROPE8CAE	PRO	6oDDD-5a	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROPE8CCT	PRO	6oDDD-8	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(1) § 60.18 § 60.562-1(a)(1)(i) § 60.562-1(a)(1)(i)(C) § 60.562-1(a)(1)(ii) § 60.562-1(d) § 60.562-1(e)	For each vent stream that emits continuous emissions from affected facility, use procedures in paragraphs (a)(1)(ii)-(iii) for determining which continuous emissions to control as specified.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(i) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(d) [G]§ 60.564(e) [G]§ 60.564(f) [G]§ 60.564(g)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(3) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(3) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROPE8CWP	PRO	6oDDD-6	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(g)	Vent streams emitting continuous emissions with uncontrolled annual emissions of < 1.6 Mg/yr (1.76 Tons/yr) or with weight % TOC of < 0.10 % from facilities as specified, exempted from §60.562-1(a)(1).	[G]§ 60.564(d)	§ 60.565(a) § 60.565(a)(10) § 60.565(h)	§ 60.565(a) § 60.565(a)(10) § 60.565(k) § 60.565(k)(6) § 60.565(k)(7)
PROPE8ICT	EU	6oDDD-2	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.562-1(a)(2) [G]§ 60.562-1(a)(2)(i) § 60.562-1(d) § 60.562-1(e)	Each vent stream that emits intermittent emissions as defined in §60.560-1(a)(1) shall be controlled as specified; prior to control modification/reconstruction /replacement, the vent stream is exempted.	[G]§ 60.563(a) § 60.563(b) § 60.563(b)(2)(ii) § 60.563(c) § 60.563(d)(1) § 60.563(d)(2) § 60.564(a) § 60.564(a)(1) § 60.564(a)(3) [G]§ 60.564(e)	[G]§ 60.563(a) § 60.563(d)(1) § 60.565(a) [G]§ 60.565(a)(5) [G]§ 60.565(b)(2) [G]§ 60.565(e) [G]§ 60.565(g) § 60.565(j)	§ 60.565(a) [G]§ 60.565(a)(5) § 60.565(b)(1) § 60.565(i) § 60.565(j) § 60.565(k) § 60.565(k)(2) § 60.565(k)(4) § 60.565(l)
PROPE8ISF	PRO	6oDDD-3	VOC/TOC	40 CFR Part 60, Subpart DDD	§ 60.560(h)	Emergency vent streams, as defined in §60.561, from a new, modified, or reconstructed polypropylene or polyethylene affected facility are exempt from the requirements of §60.562-1(a)(2).	None	None	None
TRK-ETHYL	EU	R5211-205	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(2)(A) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Any plant, excluding gasoline bulk plants, which loads less than 20,000 gpd of VOC with a true vapor pressure of 0.5 psia or greater is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
UST-3	EU	R5112-00a	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
UST-3-L	EU	R5211-205a	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) [G]§ 115.212(a)(7) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
UTL-95-02	EU	R5112-008	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None
UTL-95-19	EU	R5112-008	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.112(a)(1) § 115.112(a)(3)	Tanks shall not store VOC unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(a) or Table II(a).	[G]§ 115.115(a) § 115.116(a)(4) § 115.116(a)(5) ** See Periodic Monitoring Summary	§ 115.116(a)(4) § 115.116(a)(5)	None

**Additional Monitoring Requirements**

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## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPPECVENT	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-4
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Absence of all pilot flames	
<p>CAM Text: 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 all pilot flames shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPPEG1BPV	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-4
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Absence of all pilot flames	
<p>CAM Text: 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 all pilot flames shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPPEG1CPV	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-4
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Absence of all pilot flames	
<p>CAM Text: 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 all pilot flames shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPPEG2CPV	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-4
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Absence of all pilot flames	
<p>CAM Text: 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 all pilot flames shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPPESCV	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
Control Device ID No.: 216, 308,408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-4
Pollutant: VOC	Main Standard: § 115.121(a)(1)
<b>Monitoring Information</b>	
Indicator: Pilot flame	
Minimum Frequency: Continuous	
Averaging Period: n/a	
Deviation Limit: Absence of all pilot flames	
<p>CAM Text: 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 all pilot flames shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPDEGREAS	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412-001
Pollutant: VOC	Main Standard: § 115.412(1)
<b>Monitoring Information</b>	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: n/a	
Deviation Limit: Cold cleaner not in compliance with 30 TAC Chapter 115.412(A)-(F).	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRPHCSTANK	
Control Device ID No.: 216, 308, 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-052
Pollutant: VOC	Main Standard: § 115.112(a)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: PE6-95-147	
Control Device ID No.: 216	Control Device Type: Flare
Control Device ID No.: 308	Control Device Type: Flare
Control Device ID No.: 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-008
Pollutant: VOC	Main Standard: § 115.112(a)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: PE7-95-147	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-008
Pollutant: VOC	Main Standard: § 115.112(d)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: PE8-95-147	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-008
Pollutant: VOC	Main Standard: § 115.112(a)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: UTL-95-02	
Control Device ID No.: 216	Control Device Type: Flare
Control Device ID No.: 308	Control Device Type: Flare
Control Device ID No.: 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-008
Pollutant: VOC	Main Standard: § 115.112(a)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: once per day	
Averaging Period: n/a	
Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: UTL-95-19	
Control Device ID No.: 216	Control Device Type: Flare
Control Device ID No.: 308	Control Device Type: Flare
Control Device ID No.: 408	Control Device Type: Flare
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 115, Storage of VOCs	SOP Index No.: R5112-008
Pollutant: VOC	Main Standard: § 115.112(a)(1)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: once per day	
Averaging Period: n/a	
<p>Deviation Limit: If visible emissions are observed, a deviation shall be reported; or if a Method 22 or Method 9 observation is conducted and visible emissions are observed in excess of 5 minutes in any 2 hour period, a deviation shall be reported.</p>	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p>	
<p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p>	

**Permit Shield**

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## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
617	N/A	30 TAC Chapter 117, Subchapter B	Engine does not meet the definition of a stationary internal combustion engine.
65	N/A	30 TAC Chapter 115, Storage of VOCs	Storage containers which have a capacity of less than 25,000 gallons located at motor vehicle fuel dispensing facilities are exempt.
65	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
65.2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
65-L	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading operation is a motor vehicle fuel dispensing facility, as defined in 101.1.
ENGINE6	N/A	40 CFR Part 60, Subpart JJJJ	Reconstruction of stationary spark ignition engine was commenced before June 12, 2006.
ENGWTRWELL	N/A	40 CFR Part 60, Subpart JJJJ	Reconstruction of stationary spark ignition engine was commenced before June 12, 2006.
GRPCLTWR	260, 307, 407	40 CFR Part 63, Subpart Q	Cooling tower is not operated with chromium-based water treatment chemicals.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRPDEGREAS	DEG-1, DEG-2, DEG-3, DEG-4, DEG-7	40 CFR Part 63, Subpart T	The cold solvent cleaning machine does not use halogenated HAP solvents listed in MACT T.
GRPHCSPVSL	HCS-95-03	40 CFR Part 60, Subpart Kb	This vessel is a process tank and does not meet the definition of a storage vessel.
GRPLOADOUT	305, 405	40 CFR Part 60, Subpart DDD	Does not meet the definition of product finishing section since it does not treat, shape or modify the polymer or resin to produce the finished end product.
GRPLOADOUT	219	40 CFR Part 60, Subpart DDD	Does not meet the definition of product finishing section since it does not treat, shape or modify the polymer or resin to produce the finished end product.
GRPNOVOC	P6-V-3, P6-V-4, P7-V-3, P7-V-4	30 TAC Chapter 115, Vent Gas Controls	The vent gas stream does not contain volatile organic compounds (VOC).
GRPNOVOC	P6-V-3, P6-V-4, P7-V-3, P7-V-4	40 CFR Part 60, Subpart DDD	The vent gas stream does not contain total organic compounds (TOC).
GRPPPHMHAP	N/A	40 CFR Part 63, Subpart FFFF	Does not meet the definition of a batch process vent since the total uncontrolled HAP emissions from the vent is less than 200 lb/yr.
GRPSJWTTNK	TNK95-1025, TNK95-1026	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRPSJWTTNK	TNK95-1025, TNK95-1026	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).
GRPUTLTANK	UTL-95-10, UTL-95-20, UTL-95-30, UTL-95-40, UTLPCMPTK1, UTLPCMPTK2, UTLPCMPTK3	30 TAC Chapter 115, Storage of VOCs	Tank capacity is less than 1,000 gallons.
GRPUTLTANK	UTL-95-10, UTL-95-20, UTL-95-30, UTL-95-40, UTLPCMPTK1, UTLPCMPTK2, UTLPCMPTK3	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters (19,813 gallons).
HCL-WSEP	N/A	30 TAC Chapter 115, Water Separation	Water separator is designed solely to capture stormwater, spills, or exterior surface cleanup waters and is fully covered.
HCS-95-04	N/A	40 CFR Part 60, Subpart Kb	Pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.
P7-V-19	N/A	40 CFR Part 63, Subpart FFFF	Does not meet the definition of a batch process vent since the total uncontrolled HAP emissions from the vent is less than 200 lb/yr.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
PE6-95-147	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
PE7-95-147	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
PE8-95-147	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
PROPE6ISF	N/A	40 CFR Part 60, Subpart DDD	Vent streams are emergency vent streams from a polypropylene or polyethylene affected facility.
PROPE7ISF	N/A	40 CFR Part 60, Subpart DDD	Vent streams are emergency vent streams from a polypropylene or polyethylene affected facility.
PROPE8ISF	N/A	40 CFR Part 60, Subpart DDD	Vent streams are emergency vent streams from a polypropylene or polyethylene affected facility.
UST-1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage vessel is located at motor vehicle fuel dispensing facility and has a capacity of less than 25,000 gallons.
UST-1	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons).
UST-1-L	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading operation is a motor vehicle fuel dispensing facility, as defined in §101.1.

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
UST-2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage vessel is located at motor vehicle fuel dispensing facility and has a capacity of less than 25,000 gallons.
UST-2	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons).
UST-2-L	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Loading operation is a motor vehicle fuel dispensing facility, as defined in §101.1.
UST-3	N/A	40 CFR Part 60, Subpart K	Tank capacity is less than 151,412 liters (40,000 gallons).
UTL-95-02	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).
UTL-95-19	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 75 cubic meters(19,813 gallons).

**New Source Review Authorization References**

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## 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.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX8o8	Issuance Date: 03/24/1994
<b>Nonattainment (NA) Permits</b>	
NA Permit No.: No14M2	Issuance Date: 11/20/2015
<b>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.</b>	
Authorization No.: 4437A	Issuance Date: 11/20/2015
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.393	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000
Number: 5	Version No./Date: 08/30/1988

### 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
1000	ACTIVATOR NO. 1 MAIN BURNER	4437A
1001	CAT ACT 1 HEPA FILTER	4437A
1002	CAT ACT 2 HEPA FILTER	4437A
1003A	ACTIVATOR NO. 3 HEPA FILTER	4437A
1003B	ACTIVATOR NO. 4 HEPA FILTER	4437A
1003	CAT ACT 5 HEPA FILTER	4437A
146	ACTIVATOR NO. 4 MAIN BURNER	4437A
170	ACTIVATOR NO. 5 MAIN BURNER	4437A
201	PE6 FLASH TANK	4437A
206	PE6 POWDER ADDITIVE TANKS - TRAIN 1 PE6-AV2 TO AV7	4437A
207	PE6 PELLET DRYER - TRAIN 1 (PE6-AV8)	4437A
208	PE6 PELLET BLEND TANKS-TRAIN 1(PE6-AV9 TO AV11)	4437A
209	PE6 OFF-SPEC TANK - TRAIN 1 (PE6-AV12)	4437A
210	PE6 PELLET STORAGE TNKS-TRAIN 1 (PE6-AV16 TO AV27)	4437A
216HEADER	PP FLARE HRVOC HEADER	4437A, No14M2, PSDTX8o8
216	PP FLARE	4437A, No14M2, PSDTX8o8
217	PE6 EXTRUDER FEED/BLENDER - TRAIN 2 (PE6-AV29)	4437A
219	PE6 PELLET LOADOUT (RAILCAR)	4437A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
250	PE6 FLASH TANK (TRAIN 2)	4437A, No14M2, PSDTX8o8
252	PE6 POWDER ADDITIVE TNKS-TRAIN 2(PE6-AV30 TO AV35)	4437A
253	PE6 PELLET DRYER - TRAIN 2 (PE6-AV36)	4437A
254	PE6 PELLET BLEND TANKS-TRAIN 2 (PE6-AV37-AV39)	4437A
255	PE6 OFF-SPEC TANK - TRAIN 2 (PE6-AV40)	4437A
256	PE6 ANALYZER VENTS	4437A, No14M2
257	PE6 PELLET STORAGE TANKS-TRAIN2 (PE6-AV44 TO AV55)	4437A
259	PE 6 PIPING FUGITIVES	4437A, 106.261/11/01/2003, 106.262/11/01/2003
260	PE 6 COOLING TOWER	4437A
261	PE6 EXTRUDER FEED/BLENDER - TRAIN 2 (PE-AV29)	4437A
300	PE7 FLASH TANK	4437A
302	PE7 POWDER ADDITIVE TANKS-TRAIN 1(PE7-AV2 TO AV8)	4437A
303	PE7 PELLET DRYER - TRAIN 1 (PE7-AV9)	4437A
304	PE7 PELLET BLEND TANKS-TRAIN 1 (PE7-AV10 TO AV17)	4437A
305A	PELLET LOADING DEDUSTER	106.261/11/01/2003
305	PE7 PELLET LOADOUT (RAILCAR)	4437A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
306	PE 7 PIPING FUGITIVES	4437A, 106.261/11/01/2003, 106.262/11/01/2003
307	PE 7 COOLING TOWER	4437A
308HEADER	PE6/PE7 FLARE HRVOC HEADER	4437A, No14M2, PSDTX8o8
308	PE 6/ PE 7 FLARE	4437A, No14M2, PSDTX8o8
311	PE7 FLUFF LOADOUT	4437A
312	PE7 LOADOUT SPOT ELUTRIATOR BF DISCHARGE(PE7-AV35)	4437A
313	PE7 PELLETT EXTRUDER FEED/BLENDER TRAIN 1(PE7-AV1)	4437A
350	PE7 FLASH TANK (TRAIN 2)	4437A
352	PE7 POWDER ADDITIVE TNKS-TRAIN 2(PE7-AV19 TO AV25)	4437A
353	PE7 PELLETT DRYER (PE7-AV26)	4437A
354	PE7 PELLETT BLEND TANKS (PE7-AV27)	4437A
355	PE7 EXTRUDER FEED/BLENDER - TRAIN 2 (PE7-AV18)	4437A
356	PE7 ANALYZER VENTS	4437A, No14M2
400	PE8 FLASH TANK	4437A
402	PE8 POWDER ADD. TANK-TRAIN 1 (PE8-AV2 TO PE8-AV6)	4437A
403	PE8 PELLETT DRYER - TRAIN 1 (PE8-AV7)	4437A
404	PE8 PELLETT BLEND/STOR-TRAIN1(PE8-AV8 TO PE8-AV14)	4437A

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
405	PE8 PELLETT LOADOUT (PE8-AV33 & PE8-AV34)	4437A
406	PE 8 PIPING FUGITIVES	4437A, 106.261/11/01/2003, 106.262/11/01/2003
407	PE 8 COOLING TOWER	4437A
408HEADER	PE8 FLARE HRVOC HEADER	4437A, No14M2, PSDTX8o8
408	PE 8 FLARE	4437A, No14M2, PSDTX8o8
413	PE8 EXTRUDER FEED/BLENDER - TRAIN 1 (PE8-AV1)	4437A
450	PE8 FLASH TANK (TRAIN 2)	4437A
452	PE8 POWER ADDITIVES TNK-TRAIN 2 (PE8-AV17 TO AV23)	4437A
453	PE8 PELLETT DRYER - TRAIN 2 (PE8-AV24)	4437A
454	PE8 PELLETT BLEND & STORAGE-TRN 2 PE8-AV25 TO AV31	4437A
455	PE8 EXTRUDER FEED/BLENDER - TRAIN 2 (PE8-AV16)	4437A
456	PE8 ANALYZER VENTS	4437A, No14M2
617	NORTH END AIR COMPRESSOR	106.512/09/04/2000
65.2	DIESEL TANK	4437A
65.2-L	DIESEL LOADING	4437A
65-L	GASOLINE LOADING(MOTOR VEHICLE REFUELING)	4437A, No14M2, PSDTX8o8
65	UNDERGROUND STORAGE TANK	4437A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
83	ACTIVATOR NO. 2 MAIN BURNER	4437A
86	ACTIVATOR NO. 3 MAIN BURNER	4437A
900	HC L/UL PIPING FUGITIVES	4437A, 106.261/11/01/2003, 106.262/11/01/2003
901	PE HC STORAGE PIPING FUGITIVES	4437A
AI-03603	HAC O <sub>2</sub> PRIMARY FLUFF TRANSFER ANALYZER VENT	4437A
AI-03611	HAC O <sub>2</sub> SCDRY FLUFF TRANSFER SUCTION ANALYZER VENT	4437A
AI53199-P8	PLANT 8 COMPRESSOR SUCTION TRAIN 1 ANALYZER VENT	4437A
AI-53199	PLANT 8-1 DEETHANIZER COLUMN ANALYZER VENT	4437A
AI63199-P8	PLANT 8 COMPRESSOR SUCTION TRAIN 2 ANALYZER VENT	4437A
AI-63199	PLANT 8-2 DEETHANIZER COLUMN ANALYZER VENT	4437A
AI73228-P6	PLANT 6 DEETHANIZER COLUMN ANALYZER VENT	4437A
AI83228-P7	PLANT 7 DEETHANIZER COLUMN ANALYZER VENT	4437A
AI83811-P6	PLANT 6 CLOSED LOOP NITROGEN OXYGEN ANALYZER VENT	4437A
AI93811-P7	PLANT 7 CLOSED LOOP NITROGEN OXYGEN ANALYZER VENT	4437A
AI93811-P8	PLANT 8 CLOSED LOOP NITROGEN OXYGEN ANALYZER VENT	4437A
DEG-1	MAINTENANCE SHOP DEGREASER NO. 1	4437A
DEG-2	MAINTENANCE SHOP DEGREASER NO. 2	4437A

### New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
DEG-3	MAINTENANCE SHOP DEGREASER NO. 4	4437A
DEG-4	PE6 MAINTENANCE SHOP DEGREASER	4437A
DEG-7	MAINTENANCE SHOP DEGREASER NO. 3	106.454/11/01/2001
ENG101A	SJWT FIREWATER PUMP ENGINE WEST (SJWT101A)	106.511/09/04/2000
ENG102A	SJWT FIREWATER PUMP ENGINE EAST (SJWT102A)	106.511/09/04/2000
ENGADMIN	ADMIN COMPLEX EMERGENCY GENERATOR (EPN: 20)	4437A
ENGINE1	FIREWATER ENGINE NO. 1	005/08/30/1988
ENGINE2	FIREWATER ENGINE NO. 2	005/08/30/1988
ENGINE3	FIREWATER ENGINE NO. 3	005/08/30/1988
ENGINE4	FIREWATER ENGINE NO. 4	005/08/30/1988
ENGINE5	FIREWATER ENGINE NO. 5	005/08/30/1988
ENGINE6	FIREWATER ENGINE NO. 6	106.511/09/04/2000
ENGWTRWELL	WATER WELL NUMBER 5 TURBINE (EPN:27)	4437A
GRPPPHMHAP	GRPPPHMHAP	4437A
HCL-WSEP	HYDROCARBON LOADING/ UNLOADING OIL/WATER SEPARATOR	4437A
HCS-95-02	FRESH HEXENE STORAGE TANK	4437A, No14M2, PSDTX8o8
HCS-95-03	OLEFIN FREE ISOBUTANE PROCESS TANK - PLANT VI	4437A, No14M2, PSDTX8o8

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
HCS-95-04	PROPANE STORAGE TANK	4437A, No14M2, PSDTX8o8
HCS-95-05	OLEFIN FREE ISOBUTANE PROCESS TANK - PLANT VIII	4437A, No14M2, PSDTX8o8
HCS-95-06	OLEFIN FREE ISOBUTANE PROCESS TANK - PLANT VII	4437A, No14M2, PSDTX8o8
HCS-95-07	FRESH ISOBUTANE TANK	4437A, No14M2, PSDTX8o8
HCS-95-08	RECYCLE ISOBUTANE PROCESS TANK TRAIN 1- PLANT VIII	4437A, No14M2, PSDTX8o8
HCS-95-09	RECYCLE ISOBUTANE PROCESS TANK - PLANT VII	4437A, No14M2, PSDTX8o8
HCS-95-10	BUTENE CO-PRODUCT STORAGE TANK - PLANT VIII	4437A, No14M2, PSDTX8o8
HCS-95-11	RECYCLE ISOBUTANE PROCESS TANK TRAIN2-PLANT VIII	4437A, No14M2, PSDTX8o8
HCS-95-12	RECYCLE ISOBUTANE PROCESS TANK - PLANT VI	4437A, No14M2, PSDTX8o8
P6-95-118	REACTOR SEALANT OIL TANK - TRAIN 1(95-118, 95-119)	4437A, No14M2, PSDTX8o8
P6-95-15	RECYLCE ISOBUTANE SURGE TANK - PLANT VI	4437A, No14M2, PSDTX8o8
P6-95-17	OLEFIN-FREE ISOBUTANE SURGE TANK - PLANT VI	4437A, No14M2, PSDTX8o8
P6-952118	REACTOR SEALANT OIL TNK- TRAIN 2(95-2118, 95-2119)	4437A, No14M2, PSDTX8o8
P6-V-10	IC4/N2 EXCESS NITROGEN	4437A, No14M2, PSDTX8o8
P6-V-11	IC4/N2 RECOVERY SEPARATOR (95-198)	4437A, No14M2, PSDTX8o8
P6-V-15	TREATER REGEN VENT	4437A, No14M2, PSDTX8o8
P6-V-16	ANTISTAT PURGE POT/ANTISTAT MIX TANK	4437A, No14M2, PSDTX8o8
P6-V-1	ALTERNATE FLASH TANK	4437A, No14M2, PSDTX8o8

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
P6-V-2	C6 SPLITTER BOTTOMS	4437A, No14M2, PSDTX8o8
P6-V-3	CATALYST CONVEY N2 TRAIN 1	4437A, No14M2, PSDTX8o8
P6-V-4	CATALYST CONVEY N2 TRAIN 2	4437A, No14M2, PSDTX8o8
P6-V-7	DEETHANIZER VENT	4437A, No14M2, PSDTX8o8
P6-V-8	FLUFF CONVEY LOOP NITROGEN	4437A, No14M2, PSDTX8o8
P6-V-9	HEXENE DEGAS COLUMN	4437A, No14M2, PSDTX8o8
P7-951118	REACTR SEALANT OIL TNK TRAIN 1(95-1118,95-1119)	4437A, No14M2, PSDTX8o8
P7-95-16	RECYCLE ISOBUTANE SURGE TANK - PLANT VII	4437A, No14M2, PSDTX8o8
P7-95-18	OLEFIN-FREE ISOTUTANE SURGE TANK - PLANT VII	4437A, No14M2, PSDTX8o8
P7-952118	REACTR SEALANT OIL TNK - TRAIN 1(95-2118, 95-2119)	4437A, No14M2, PSDTX8o8
P7-V-10	IC4/N2 RECOVERY EXCESS NITROGEN	4437A, No14M2, PSDTX8o8
P7-V-15	TREATER REGEN VENT	4437A, No14M2, PSDTX8o8
P7-V-16	ANTISTAT PURGE POT/ANTISTAT MIX TANK	4437A, No14M2, PSDTX8o8
P7-V-17	CO-CATALYST (TEA/TEB) SEAL POT	4437A, No14M2, PSDTX8o8
P7-V-19	REACTOR SAMPLE FLASH TANK (95-1501)	106.261/11/01/2003, 106.262/11/01/2003
P7-V-1	ALTERNATE FLASH TANK	4437A, No14M2, PSDTX8o8
P7-V-2	C6 SPLITTER BOTTOMS	4437A, No14M2, PSDTX8o8
P7-V-3	CATALYST CONVEY N2 TRAIN 1	4437A, No14M2, PSDTX8o8

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
P7-V-4	CATALYST CONVEY N <sub>2</sub> TRAIN 2	4437A, No14M2, PSDTX8o8
P7-V-7	DEETHANIZER VENT	4437A, No14M2, PSDTX8o8
P7-V-8	FLUFF CONVEY LOOP NITROGEN	4437A, No14M2, PSDTX8o8
P7-V-9	HEXENE DEGAS COLUMN	4437A, No14M2, PSDTX8o8
P8-951118	REACTOR SEALANT OIL TNK-TRAIN 1(95-1118,95-1119)	4437A, No14M2, PSDTX8o8
P8-951147	RECYCLE ISOBUTANE SURGE TANK-PLANT VIII-TRAIN 1	4437A, No14M2, PSDTX8o8
P8-95-146	OLEFIN-FREE ISOBUTANE SURGE TANK-PLANT VIII	4437A, No14M2, PSDTX8o8
P8-952118	REACTOR SEALANT OIL TNK-TRAIN 1(95-2118,95-2119)	4437A, No14M2, PSDTX8o8
P8-952147	RECYCLE ISOBUTANE SURGE TANK - PLANT VIII-TRAIN 2	4437A, No14M2, PSDTX8o8
P8-V-10	IC <sub>4</sub> /N <sub>2</sub> EXCESS NITROGEN	4437A, No14M2, PSDTX8o8
P8-V-14	TEA CATALYST TRAIN 2	4437A, No14M2, PSDTX8o8
P8-V-15	TREATER REGEN VENT	4437A, No14M2, PSDTX8o8
P8-V-16	ANTISTAT PURGE POT/ANTISTAT MIX TANK	4437A, No14M2
P8-V-17	CO-CATALYST (TEA/TEB) SEAL POT	4437A, No14M2, PSDTX8o8
P8-V-18	DEETHANIZER OVERHEAD VENT - TRAIN 2	4437A, No14M2, PSDTX8o8
P8-V-1	ALTERNATE FLASH TANK	4437A, No14M2, PSDTX8o8
P8-V-2	C6 SPLITTER BOTTOMS	4437A, No14M2, PSDTX8o8
P8-V-7	DEETHANIZER VENT	4437A, No14M2, PSDTX8o8

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P8-V-8	FLUFF CONVEY LOOP NITROGEN	4437A, No14M2, PSDTX8o8
P8-V-9	HEXENE DEGAS COLUMN	4437A, No14M2, PSDTX8o8
PE6-95-147	PLANT VI RECYCLE HEXENE STORAGE TANK	4437A, No14M2, PSDTX8o8
PE7-95-147	PLANT VII RECYCLE HEXENE STORAGE TANK	4437A, No14M2, PSDTX8o8
PE8-95-147	PLANT VIII RECYCLE HEXENE TANK	4437A, No14M2, PSDTX8o8
PE8-AV16B	MASTER FEEDER VENT - TRAIN 2	4437A
PE8-AV1B	MATER FEEDER VENT - TRAIN 1	4437A
PROCATCT <sub>3</sub>	CATACT-NSPS DDD NO CONTROLS BASED ON TABLE 3 CALS	4437A
PROGPHCAE	GPH PP - NSPS DDD EXEMPT VENT STREAMS (<1.6 MG/YR)	4437A, No14M2, PSDTX8o8
PROGPHCCT	GPH PP - NSPS DDD CONTINUOUS CONTROLLED VENT STRM.	4437A, No14M2, PSDTX8o8
PROGPHCT <sub>3</sub>	GPH PP-NSPS DDD NO CONTROLS BASED ON TABLE 3 CALS	4437A
PROGPHCWP	GPH PP - NSPS DDD EXEMPT VENT STREAMS(<0.1 WT% )	4437A, No14M2, PSDTX8o8
PROGPHICT	GPH PP - NSPS DDD INTERMITTENT CONTROLLED VENT STR	4437A, No14M2, PSDTX8o8
PROHACCAE	HAC PP-NSPS DDD EXEMPT VENT STREAMS(<1.6 MG/YR)	4437A, No14M2, PSDTX8o8
PROHACCCT	HAC PP-NSPS DDD CONTINUOUS CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX8o8
PROHACCWP	HAC PP - NSPS DDD EXEMPT VENT STREAMS(<0.1 WT% )	4437A, No14M2, PSDTX8o8
PROHACICT	HAC PP-NSPS DDD INTERMITTENT CONTROLLED VENT STRM	4437A, No14M2, PSDTX8o8

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PROPAIN7	PAINTING PROCESSES	4437A, No14M2, PSDTX808
PROPE6CAE	PE6-NSPS DDD EXEMPT VENT STREAMS(<1.6 MG/YR)	4437A, 106.261/11/01/2003, 106.262/11/01/2003, No14M2, PSDTX808
PROPE6CCT	PE6-NSPS DDD CONTINUOUS CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE6CWP	PPE6-NSPS DDD EXEMPT VENT STREAMS(<0.1 WT%)	4437A, No14M2, PSDTX808
PROPE6ICT	PE6-NSPS DDD INTERMITTENT CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE6ISF	PE6-NSPS DDD EXEMPT VENT STREAMS(EMERGENCY VENTS)	4437A, No14M2, PSDTX808
PROPE7CAE	PE7-NSPS DDD EXEMPT VENT STREAMS(<1.6 MG/YR)	4437A, 106.261/11/01/2003, 106.262/11/01/2003, No14M2, PSDTX808
PROPE7CCT	PE7-NSPS DDD CONTINUOUS CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE7CWP	PE7-NSPS DDD EXEMPT VENT STREAMS(<0.1 WT %)	4437A, No14M2, PSDTX808
PROPE7ICT	PE7-NSPS DDD INTERMITTENT CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE7ISF	PE7-NSPS DDD EXEMPT VENT STREAMS(EMERGENCY VENTS)	4437A, No14M2, PSDTX808
PROPE8CAE	PE8-NSPS DDD EXEMPT VENT STREAMS(<1.6 MG/YR)	4437A, 106.261/11/01/2003, 106.262/11/01/2003, No14M2, PSDTX808
PROPE8CCT	PE8-NSPS DDD CONTINUOUS CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE8CWP	PE8-NSPS DDD EXEMPT VENT STREAMS(<0.1 WT%)	4437A, No14M2, PSDTX808
PROPE8ICT	PE8-NSPS DDD INTERMITTENT CONTROLLED VENT STREAMS	4437A, No14M2, PSDTX808
PROPE8ISF	PE8-NSPS DDD EXEMPT VENT STREAMS(EMERGENCY VENTS)	4437A, No14M2, PSDTX808

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TNK95-1025	FIREWATER PUMP DIESEL STORAGE TANK WEST (SJWT101A)	106.472/09/04/2000
TNK95-1026	FIREWATER PUMP DIESEL STORAGE TANK EAST (SJWT102A)	106.472/09/04/2000
TRK-ETHYL	ETHYLENE TRUCK LOADING	4437A, N014M2, PSDTX808
UST-1-L	LOADING	4437A
UST-1	UNDERGROUND UNLEADED TANK #1	106.412/09/04/2000
UST-2-L	LOADING	4437A
UST-2	UNDERGROUND UNLEADED TANK #2	106.412/09/04/2000
UST-3-L	LOADING	4437A
UST-3	UNDERGROUND DIESEL TANK #3	106.412/09/04/2000
UTILPCOMP1	UTILITIES PORTABLE AIR COMPRESSOR # 1	106.511/09/04/2000
UTILPCOMP2	UTILITIES PORTABLE AIR COMPRESSOR # 2	106.511/09/04/2000
UTILPCOMP3	UTILITIES PORTABLE AIR COMPRESSOR # 3	106.511/09/04/2000
UTL-95-02	PROPANE TANK	4437A, N014M2, PSDTX808
UTL-95-10	DIESEL STORAGE TANK #1	106.472/09/04/2000
UTL-95-19	RECOVERED HC STORAGE TANK (BIG VERTICAL TANK)	4437A, N014M2, PSDTX808
UTL-95-20	DIESEL STORAGE TANK #2	106.472/09/04/2000
UTL-95-30	DIESEL STORAGE TANK #3	106.472/09/04/2000
UTL-95-40	DIESEL STORAGE TANK #4	106.472/09/04/2000

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<b>Unit/Group/Process ID No.</b>	<b>Emission Unit Name/Description</b>	<b>New Source Review Authorization</b>
UTLPCMPTK1	UTILITIES PORTABLE AIR COMPRESSOR DIESEL TANK # 1	106.472/09/04/2000
UTLPCMPTK2	UTILITIES PORTABLE AIR COMPRESSOR DIESEL TANK # 2	106.472/09/04/2000
UTLPCMPTK3	UTILITIES PORTABLE AIR COMPRESSOR DIESEL TANK # 3	106.472/09/04/2000

**Alternative Requirement**

**Alternative Requirement .....172**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

**APR 13 2007**

Mr. John Hellstrom  
Environmental Superintendent  
Pasadena Plastics Complex  
Chevron Phillips Chemical Company LP  
P. O. Box 792  
Pasadena, Texas 77501

Re: Request for Approval  
Open Flame Flares (4)  
Waiver of Test/Assessment  
Alternative Monitoring Plan (AMP)  
TCEQ Air Account No. HG-0566-H  
NSPS Part 60, Subparts NNN, DDD and A  
NESHAP Part 63, Subpart FFFF (MON) and A  
SIP 30 TAC Chapter 115, § 115.725(d)

Dear Mr. Huffman:

In response to your request for approval of a waiver of test/assessment requirements and approval of an alternative monitoring plan (AMP) for four (4) open flame flares, dated February 16, 2006, at the Pasadena Plastics Complex of Chevron Phillips Chemical Company LP at Pasadena, Texas ("CP Chem Pasadena"), we offer the following. As indicated in your request letter, CP Chem Pasadena operates a plastics manufacturing facility with some allied organic chemical manufacturing in Harris County, Texas. The four flares control air emissions from the facilities you identified in your request letter. Based on our review of the submitted information, EPA Region 6 is hereby approving both 1) CP Chem Pasadena's request for approval of a waiver from applicable open flame flare test/assessment requirements for the four flares, and 2) CP Chem Pasadena's request for approval of a proposed AMP for the same four flares, subject to the terms and conditions stated herein and in the Enclosures to this letter.

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CP Chem Pasadena uses the four (4) open flame flares, for which this request has been made, to control VOC and HAP emissions and are subject to both 40 CFR § 60.18 and 40 CFR § 63.11, which require the owner or operator to conduct tests/assessments to determine (among other things) if the VOC/HAP containing gas going into the flare is meeting the 1) net heating value specifications (in MJ/scm or BTU/scf) (computed from gas sampling and analysis measurements), and 2) flare tip velocity specifications (in m/sec or ft/sec) (computed from flow rate measurements). If the owner or operator claims that it has other means of determining compliance with these specifications without conducting the required testing/measurements, it may request approval of a waiver under the provisions of NSPS Part 60, Subpart A at § 60.8(b)(4) and/or NESHAP Part 63, Subpart A at § 63.7(e)(2)(iv) and § 63.7(h).

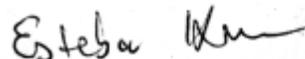
Facilities at CP Chem Pasadena are also subject to the HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control). These are Federally enforceable SIP rules for the State of Texas, effective in the Houston/Galveston/Brazoria area. Section 115.725(d) of the Texas SIP rules requires the owner or operator of an affected flare to install, calibrate, maintain, and operate for the VOC containing gas going into the flare 1) a continuous monitoring system for flow rate, and 2) an on-line analyzer (continuous monitoring system) for molecular weight and net heating value. CP Chem Pasadena claims that compliance with these SIP rule provisions meets the requirement to determine compliance with the net heating value and flow rate (tip velocity) open flame flare specifications of both 40 CFR § 60.18 and 40 CFR § 63.11. Accordingly, CP Chem Pasadena requested EPA approval of a waiver from compliance testing requirements for the open flame flare net heating value and flow rate (tip velocity) specifications of both 40 CFR § 60.18 and 40 CFR § 63.11 by claiming that they have satisfied both NSPS Part 60, Subpart A at § 60.8(b)(4) and NESHAP Part 63, Subpart A at § 63.7(e)(2)(iv) by complying with Section 115.725(d) of the Federally enforceable Texas SIP rules.

EPA is approving the CP Chem Pasadena request, subject to conditions stated in the Enclosures. EPA determinations for other process units or facilities subject to NSPS Parts 60, NESHAP Parts 61 or 63, or the Consolidated Air Rule (CAR) Part 65 are to be addressed on a case-by-case basis. Also, this determination request response was coordinated with EPA's Office of Compliance (Marcia Mia, Scott Throwe, and Maria Malave) within the Office of Enforcement and Compliance Assurance (OECA) in Washington, D.C. and with EPA's Sector Policies and Programs Division (formally the Emission Standards Division) (Randy McDonald, Richard Colyer, David Markwordt, and Kent Hustvedt), and EPA's Air Quality Assessment Division (AQAD) (Foston Curtis and Rima Howell) within the Office of Air Quality Planning and Standards (OAQPS) in Research Triangle Park, North Carolina.

If additional information indicates that the conditions under which this waiver of test/assessment requirements and approval of an alternative monitoring plan (AMP) response was developed have changed, EPA may determine that this determination is null and void. In this event, CP Chem Pasadena shall re-apply for approval of a waiver request and an AMP request that is representative of the changed conditions. For additional detailed information concerning this determination, see the enclosures to this letter.

If you have any questions about his determination response, please contact Jonathan E. York of my staff at (214) 665-7289 or by e-mail at [york.jonathan@epa.gov](mailto:york.jonathan@epa.gov).

Sincerely yours,



*fw* David Garcia  
Associate Director  
Air/Toxics and Inspection  
Coordination Branch

Enclosures

cc: Rick Colyer (EPA HQ)  
Scott Throwe (EPA HQ)  
Randy McDonald (EPA HQ)  
Marcia Mia (EPA HQ)  
David Markwordt (EPA HQ)  
Maria Malave (EPA HQ)  
Ken Hustvedt (EPA HQ)  
Foston Curtis (EPA HQ)  
Rima Howell (EPA HQ)  
Jeffrey Greif (TCEQ)  
Robert (Bob) Mann (TCEQ)  
John R. Smith (TCEQ)  
Vincent Meiller (TCEQ)  
Jean Xu Shaw (TCEQ)  
Jennifer Mouton (LDEQ)  
Timothy Bergeron (LDEQ)  
Jay Carney (LDEQ)  
Syed Quadri (LDEQ)  
Debra McElroy (NMED)  
Robert Samaniego (NMED)  
Ed Horst (NMED)  
Tom Rheaume (ADEQ)  
Doyle McWhirter (ODEQ)  
Johnny Little (ODEQ)  
Dawson Lasseter (ODEQ)

## ENCLOSURE 1

### CONDITIONS FOR APPROVAL

#### **Chevron Phillips Chemical Company LP**

Pasadena, Texas (Harris County, Texas)

#### **Organic Chemical (Plastics) Manufacturing (Pasadena Plastics Complex)**

Chevron Phillips Chemical Company LP at Pasadena, Texas ("CP Chem Pasadena")

The following are the conditions for approval.

#### ***ASSIST GAS (AUTOMATIC ADJUSTMENT) - FOUR OPEN FLAME FLARES:***

According to information submitted by CP Chem Pasadena, dated April 28, 2006, each open flame flare (EPNs 216, 308, 408 and 524 (K-Resin)) is equipped with an automatic (control loop feedback) system which adjusts the assist gas flow rate to each flare. An on-line calorimeter generates the signal for the automatic adjustment of assist gas flow rate to each flare. As the net heating value of the incoming process unit gas to each flare drops, the automatic assist gas system increases assist gas flow rate to compensate. If the net heating value of the incoming process unit gas to each flare increases, the assist gas is reduced to compensate.

#### ***ASSIST GAS (ALARM SYSTEM - MANUAL ADJUSTMENT) - FOUR OPEN FLAME FLARES:***

According to information submitted by CP Chem Pasadena, dated April 28, 2006, each open flame flare (EPNs 216, 308, 408 and 524 (K-Resin)) is equipped with a "low BTU value" alarm system. The same on-line calorimeter that is used in the closed loop feedback system to adjust assist gas is also set to sound an alarm at a set point above the regulatory minimum allowed net heating value, such that the chances of the net heating value dropping below the regulatory minimum are very low. For both air assisted and steam assisted open flame flares subject to NSPS Part 60, Subpart A at § 60.18(b) through (f) and NESHAP Part 63, Subpart A at § 63.11(b), the regulatory minimum is 11.2 MJ/scm (300 BTU/scf). A failure in the closed loop feedback system would sound the alarm and alert flare operators to take over the assist gas adjustment manually. After closed loop feedback system repair, automatic adjustment of assist gas would resume.

***AMP CPMS RECORDKEEPING:***

As a condition of approval of its request for a waiver from the NSPS Part 60 and NESHAP Part 63 open flame flare performance testing/flare compliance assessment requirements, CP Chem Pasadena shall continuously record and maintain data for the following key compliance parameters for each of the flares for which the waiver request was made:

1. Flare gas net heating values obtained from each of the on-line gas chromatograph (GC) analyzers installed on each flare gas line to comply with the Texas HRVOC SIP rule.
2. Flare tip velocities computed from flow rate values obtained from each of the on-line flow (ultrasonic) meters installed on each flare gas line to comply with the Texas HRVOC SIP rule.

Records for these key compliance parameters are to be maintained in addition to any other compliance parameter data records that are required to be maintained by NSPS Part 60 and NESHAP Part 63 rules.

Each of the open flame flares (EPNs 216, 308, 408 and 524 (K-Resin)) for which CP Chem Pasadena has made its request is subject to the recordkeeping requirements of NSPS Part 60, Subparts NNN, DDD, & A and NESHAP Part 63, Subpart FFFF & A. CP Chem Pasadena shall comply with the more stringent of these requirements.

***AMP CPMS DATA ANALYSIS CRITERIA:***

Excess emissions are defined as any period of time in which each monitored operational parameter does not comply with its corresponding open flame flare specification. The open flame flares subject to the CPMS data analysis criteria of this AMP approval are:

Open Flame Flare EPN 216 - Air-Assisted

Open Flame Flare EPN 308 - Air-Assisted

Open Flame Flare EPN 408 - Air-Assisted

Open Flame Flare EPN 524 (K-Resin) - Steam-Assisted

The required data analysis specifications for each of the open flame flares (EPNs 216, 308, 408 and 524 (K-Resin)) for which CP Chem Pasadena has made its request are:

1. Deviation Criteria Applicability:

The deviation criteria identified below applies to data recorded from operational parameter monitoring devices installed on the cited flare systems:

- a) Net heating value of the flare gas being combusted shall not be allowed to drop below the minimum stated in the applicable NSPS Part 60 and NESHAP Part 63 specifications.
- b) Tip velocity, as calculated from the measured flow rate, temperature, and pressure data values recorded for the flare gas being combusted, shall not be allowed to deviate from the limits stated in the applicable NSPS Part 60 and NESHAP Part 63 specifications.
- c) Presence of a flare flame shall be maintained at all times flare gas is sent to the flare, in accordance with the applicable NSPS Part 60 and NESHAP Part 63 specifications.

2. CMS Data Analysis Criteria:

Collect measured values of flare gas net heating value, flow rate, temperature, and pressure on a successive 15 minute period basis and compute hourly average values of net heating value and tip velocity in accordance with the criteria of:

- NSPS Part 60, Subpart A at § 60.13(e) and (h)
- NSPS Part 60, Subpart A at § 60.18(b) thru (f)
- NESHAP Part 63, Subpart A at § 63.8(g)
- NESHAP Part 63, Subpart A at § 63.11(b)

3. Averaging Time for Determining and Recording Deviations:

Neither NSPS Part 60 nor NESHAP Part 63 rules contain specified averaging times for CMS output from measurements of net heating values and tip velocities recorded for open flame flares. However, the Federally enforceable Texas HRVOC SIP rule does have the stated criteria and these requirements are applicable to the open flame flares (EPNs 216, 308, 408 and 524 (K-Resin)) for which CP Chem Pasadena has made is request:

- a. Net heating value of the flare gas being combusted:

One-hour block period basis (see § 115.725(d)(5) of HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control)).

b. Tip velocity value of the flare gas being combusted:

One-hour block period basis (see § 115.725(d)(6) of HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control)).

Note 1: Tip velocity values determined from measured values of flare gas flow rate, temperature, and pressure.

4. Recordkeeping Requirements:

The following is a list of the Federal regulations for **recordkeeping** applicable to the open flame flares (EPNs 216, 308, 408 and 524 (K-Resin)) for which CP Chem Pasadena has made is request:

NSPS Part 60, Subpart NNN at § 60.665  
NSPS Part 60, Subpart DDD at § 60.565  
NSPS Part 60, Subpart A at § 60.7  
NSPS Part 63, Subpart FFFF at § 63.2525  
NSPS Part 63, Subpart SS at § 63.998  
NSPS Part 63, Subpart A at § 63.10

For the purpose of recordkeeping of net heating value and tip velocity data analysis results, CP Chem Pasadena shall comply with the requirements of NESHAP Part 63, Subpart SS at § 63.998(b) - (Continuous Records and Monitoring System Data Handling) and NESHAP Part 63, Subpart A at § 63.10(b) and (c).

Records of flare flame and/or flare pilot flame presence and all other required records are to be maintained in accordance with all applicable Federal rules. If more than one rule contains a particular type of recordkeeping requirement, compliance with the most stringent is required.

5. Report and Notification Submittal Requirements:

The following is a list of the Federal regulations for **reporting** applicable to the open flame flares (EPNs 216, 308, 408 and 524 (K-Resin)) for which CP Chem Pasadena has made is request:

NSPS Part 60, Subpart NNN at § 60.665  
NSPS Part 60, Subpart DDD at § 60.565  
NSPS Part 60, Subpart A at § 60.7  
NSPS Part 63, Subpart FFFF at § 63.2520  
NSPS Part 63, Subpart SS at § 63.999  
NSPS Part 63, Subpart A at § 63.10

For the purpose of reporting net heating value and tip velocity data analysis results, CP Chem Pasadena shall comply with the requirements of NESHAP Part 63, Subpart SS at § 63.999(c) - (Periodic Reports) and NESHAP Part 63, Subpart A at § 63.10(d) and (e).

Reports of flare flame and/or flare pilot flame presence and all other required records and required notices are to be submitted in accordance with all applicable Federal rules. If more than one rule contains a particular type of reporting or notification requirement, compliance with the most stringent is required.

## ENCLOSURE 2

### BACKGROUND AND APPLICABLE REQUIREMENTS

#### **Chevron Phillips Chemical Company LP**

Pasadena, Texas (Harris County, Texas)

#### Organic Chemical (Plastics) Manufacturing (Pasadena Plastics Complex)

Chevron Phillips Chemical Company LP at Pasadena, Texas ("CP Chem Pasadena")

#### ***BACKGROUND***

1. CP Chem Pasadena said that it owns and operates organic chemical manufacturing process units that make, among other things, Polypropylene, K-Resin, and Polyethylene.
2. CP Chem Pasadena also said that the organic chemical manufacturing process units are subject to NSPS Part 60, Subpart NNN and A, NSPS Part 60, Subpart DDD and A, and NESHAP Part 63, Subpart FFFF and A. Note that NESHAP Subpart FFFF incorporates by reference selected provisions in NESHAP Part 63, Subpart SS for closed vent systems and control devices.
3. In its request letter, dated February 16, 2006, CP Chem Pasadena indicated that its "gas phase (GPH) Polypropylene Unit" is subject to NSPS Part 60, Subpart DDD and A. VOCs in the vent streams from this unit are controlled by three (3) open flame flares (EPN 216, EPN 308, and EPN 408).
4. Also in the 02/16/2006 request letter, CP Chem Pasadena indicated that vent streams from distillation columns located in the Neohexane process unit are subject to NSPS Part 60, Subpart NNN and A. VOCs in these vent streams are controlled by the K-Resin (EPN 524) open flame flare.
5. CP Chem Pasadena indicated, in its request letter dated 02/16/2006, that its plant is a major source of hazardous air pollutants (HAPs) and operates miscellaneous organic chemical manufacturing process units (MCPUs) that are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) Part 63, Subpart FFFF
6. In its request letter, dated February 16, 2006, CP Chem Pasadena said that it has installed an on-line gas chromatograph (GC) analyzer to determine the VOC content of the process unit gases to be flared in each of the four open flame flares, for which this request gas been made (EPNs 216, 308, 408, and 524 (K-Resin)). The on-line GC analyzer provides information needed to determine the net heating value of the flare gas stream.
7. CP Chem Pasadena also said in its request letter, dated February 16, 2006, that it has

installed an on-line flow (ultrasonic) meter to determine the open flame flare's flow rate, so that the tip velocity for each of the four open flame flares can be determined. The flow rate monitoring system is also equipped with temperature and pressure monitoring devices to allow for correction of the measured flow rates.

8. CP Chem Pasadena said that it installed the on-line gas chromatograph (GC) analyzer and the on-line flow (ultrasonic) meter to comply with the HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control). In contrast, neither of the Federal rules for open flame flares (NSPS Part 60, Subpart A at § 60.18(b) and NESHAP Part 63, Subpart A at § 63.11(b)) contain provisions for continuous monitoring and recording of net heating values and tip velocities (flare gas flow rates)

9. In addition to the on-line GC analyzer, CP Chem Pasadena said that it had installed an on-line calorimeter on each flare gas line to maintain flare assist gas through a closed loop feedback system at an optimal level to prevent the net heating value of the flare gas from dropping below the minimum regulatory level. In addition to the on-line calorimeter on each flare gas line, the closed loop feedback system is equipped with a set point alarm system that will alert the flare operator of automatic system failure.

## **REGULATORY REQUIREMENTS - FOUR OPEN FLAME FLARES**

### **NSPS Part 60, Subparts NNN and A**

1. If the owner or operator of NSPS Subpart NNN affected facilities elects to combust vent streams in an open flame flare, the flare is required to be in compliance with NSPS Part 60, Subpart A at § 60.18 (see 40 CFR § 60.662(b) and § 60.664(d)).

### **NSPS Part 60, Subparts DDD and A**

2. If the owner or operator of NSPS Subpart DDD affected facilities elects to combust vent streams in an open flame flare, the flare is required to be in compliance with NSPS Part 60, Subpart A at § 60.18 (see 40 CFR § 60.562-1(a)(1)(i)(C), § 60.564(f), § 60.564(g) and Table 3 of 40 CFR § 60.562-1).

### **NESHAP Part 63, Subparts FFFF (MON) and A NESHAP Part 63, Subpart SS**

3. If the owner or operator of NESHAP Subpart FFFF affected sources elects to vent HAP emissions through a closed vent system to an open flame flare, the closed vent system and the flare are required to be in compliance with NESHAP Part 63, Subpart SS at § 63.982(b) (see 40 CFR § 63.2450(e) of NESHAP Subpart FFFF).

4. NESHAP Part 63, Subpart SS at § 63.982(b), requires owners and operators of open flame flares, subject to a referencing Subpart (such as NESHAP Subpart FFFF), to comply with 40 CFR § 63.987 for flares and with 40 CFR § 63.997(a), (b), and (c) for provisions regarding flare compliance assessments.

5. NESHAP Part 63, Subpart SS at § 63.987(a), requires owners and operators of open flame flares, to comply with NESHAP Part 63, Subpart A at § 63.11.

6. NESHAP Part 63, Subpart SS at § 63.987(b), requires owners and operators of open flame flares, to comply with specifically stated "flare compliance assessment" procedures.

7. NESHAP Part 63, Subpart SS at § 63.997(a), (b), and (c) contains additional provisions regarding flare compliance assessments.

### **30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control).**

8. Open flame flares located in Pasadena (Harris County), Texas are subject to Federally enforceable State Implementation Plans (SIP) rules for the State of Texas, effective in the Houston/Galveston/Brazoria area.

9. The Texas SIP rule contains monitoring and testing requirements for vent gas control of VOC emission sources classified as highly reactive volatile organic compounds (HRVOCs) (see 30 TAC Chapter 115, at § 115.725).
10. A subset of the Texas SIP rule for vent gas control of HRVOC emission sources contains monitoring and testing requirements for open flame flares (see 30 TAC Chapter 115, at § 115.725(d)).
11. CP Chem Pasadena is required by the Texas HRVOC SIP rule to install, calibrate, maintain and operate two (2) types of continuous monitoring systems (CMSs) on the open-flame flare vent gas line for each of the identified flares, prior to combustion in the flare's flame zone (see 30 TAC Chapter 115, at § 115.725(d)).
12. CP Chem Pasadena is required by the Texas HRVOC SIP rule to install a flow rate recording CMS to provide data for the calculation and recording of flare tip velocity (see 30 TAC Chapter 115, § 115.725(d)(1)). Installation of calibrated temperature and pressure monitoring devices, concurrent with the flow rate CMS, is also required by the TX SIP rule.
13. CP Chem Pasadena is required by the Texas HRVOC SIP rule to install an on-line HRVOC net heating value recording CMS to provide data for the recording of the net heating value of the gas being combusted (see 30 TAC Chapter 115, at § 115.725(d)(2)).

## ***CONTROL DEVICES - APPLICABLE COMPLIANCE REQUIREMENTS***

The following information is based on the original test waiver request submittal, dated February 16, 2006, as updated by the additional information submitted April 28, 2006. Requirements not directly relevant to CP Chem Pasadena's request, dated 02/16/2006, are not included.

### **Open Flame Flare EPN 216**

### **Open Flame Flare EPN 308**

### **Open Flame Flare EPN 408**

Type of Each Open Flame Flare: **Air Assist**  
Hydrogen Content of Flared Gas: Less than eight percent (8%)

#### **1. Applicable Federal Rules:**

NSPS Part 60, Subpart NNN (distillation columns)

40 CFR § 60.662(b) - requires compliance with 40 CFR § 60.18(b)

40 CFR § 60.664(d) - requires compliance with 40 CFR § 60.18(b)

NSPS Part 60, Subpart DDD (polymer manufacturing)

40 CFR § 60.562-1(a)(1)(i)(C) - Polypropylene & Polyethylene - requires compliance with 40 CFR § 60.18(b)

40 CFR § 60.564(f) and (g) - requires compliance with 40 CFR § 60.18(b)

NSPS Part 60, Subpart A (General Provisions - performance testing)

40 CFR § 60.8(b) - performance test requirements

40 CFR § 60.8(b)(4) - authority to waive performance test

NSPS Part 60, Subpart A (General Provisions - performance testing/flare compliance assessment)

40 CFR § 60.18(b) through (f) - open flame flare specifications

40 CFR § 60.18(c)(3)(ii) - open flame flare net heating value not less than 11.2 MJ/scm (300 BTU/scf), if flare is **air** assisted.

40 CFR § 60.18(f)(3) - contains the stated calculation method for determining open flame flare net heating value, if flare is **air** assisted.

40 CFR § 60.18(c)(5) - open flame flare exit (tip) velocity not to exceed V<sub>max</sub>, if flare is **air** assisted.

40 CFR § 60.18(f)(6) - V<sub>max</sub> determined using stated calculation method, if flare is **air** assisted.

NESHAP Part 63, Subpart FFFF (MON rule)

40 CFR § 63.2450(e) - if venting using closed-vent system to an open flame flare, required to comply with NESHAP Part 63, Subpart SS at § 63.982(b).

NESHAP Part 63, Subpart SS (Closed Vent System and Control Device rule)

40 CFR § 63.982(b) - if venting using closed-vent system to an open flame flare, required to comply with NESHAP Part 63, Subpart SS at § 63.987 for flares and with § 63.997(a), (b), and (c) for provisions regarding flare compliance assessments.

40 CFR § 63.987(a) - required to comply with 40 CFR § 63.11(b).

40 CFR § 63.987(b) - provisions for flare compliance assessments stated.

40 CFR § 63.997(a), (b), and (c) - additional provisions regarding flare compliance assessments stated.

NESHAP Part 63, Subpart A (General Provisions - flare compliance assessment)

40 CFR § 63.11(b) - open flame flare specifications

40 CFR § 63.11(b)(6)(ii) - open flame flare net heating value not less than 11.2 MJ/scm (300 BTU/scf), if flare is **air** assisted.

40 CFR § 63.11(b)(6)(ii) - also contains the stated calculation method for determining open flame flare net heating value, if flare is **air** assisted.

40 CFR § 63.11(b)(8) - open flame flare exit (tip) velocity not to exceed  $V_{max}$ , if flare is **air** assisted.

40 CFR § 63.11(b)(8) - also contains the stated calculation method for determining  $V_{max}$ , if flare is **air** assisted.

## 2. Applicable Federally Enforceable Texas SIP Rules:

HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control).

Required to install, calibrate, maintain, and operate for the VOC containing gas going into the flare:

1. Continuous monitoring system for flow rate, and
2. On-line analyzer (continuous monitoring system) for molecular weight and net heating value.

Open Flame Flare EPN 524 (K-Resin)

Type of Open Flame Flare: **Steam Assist**  
Hydrogen Content of Flared Gas: Less than eight percent (8%)

1. Applicable Federal Rules:

- NSPS Part 60, Subpart NNN (distillation columns)
  - 40 CFR § 60.662(b) - requires compliance with 40 CFR § 60.18(b)
  - 40 CFR § 60.664(d) - requires compliance with 40 CFR § 60.18(b)
- NSPS Part 60, Subpart DDD (polymer manufacturing)
  - 40 CFR § 60.562-1(a)(1)(i)(C) - Polypropylene & Polyethylene - requires compliance with 40 CFR § 60.18(b)
  - 40 CFR § 60.564(f) and (g) - requires compliance with 40 CFR § 60.18(b)
- NSPS Part 60, Subpart A (General Provisions - performance testing)
  - 40 CFR § 60.8(b) - performance test requirements
  - 40 CFR § 60.8(b)(4) - authority to waive performance test
- NSPS Part 60, Subpart A (General Provisions - performance testing/flare compliance assessment)
  - 40 CFR § 60.18(b) through (f) - open flame flare specifications
  - 40 CFR § 60.18(c)(3)(ii) - open flame flare net heating value not less than 11.2 MJ/scm (300 BTU/scf), if flare is **steam** assisted.
  - 40 CFR § 60.18(f)(3) - contains the stated calculation method for determining open flame flare net heating value, if flare is **steam** assisted.
  - 40 CFR § 60.18(c)(4)(i) - open flame flare exit (tip) velocity not to exceed 18.3 m/sec (60 ft/sec), if net heating value does not exceed 37.3 MJ/scm (1,000 BTU/scf), if flare is **steam** assisted. OR
  - 40 CFR § 60.18(c)(4)(ii) - open flame flare exit (tip) velocity equal to or larger than 18.3 m/sec (60 ft/sec), but less than 122 m/sec (400 ft/sec) if net heating value is larger than 37.3 MJ/scm (1,000 BTU/scf), if flare is **steam** assisted.
  - 40 CFR § 60.18(c)(4)(iii) - open flame flare exit (tip) velocity less than Vmax *and* less than 122 m/sec (400 ft/sec), if flare is **steam** assisted.
  - 40 CFR § 60.18(f)(5) - contains the stated calculation method for determining Vmax in 40 CFR § 60.18(c)(4)(iii), if flare is **steam** assisted.
- NESHAP Part 63, Subpart FFFF (MON rule)
  - 40 CFR § 63.2450(e) - if venting using closed-vent system to an open flame flare, required to comply with NESHAP Part 63, Subpart SS at § 63.982(b).

NESHAP Part 63, Subpart SS (Closed Vent System and Control Device rule)

40 CFR § 63.982(b) - if venting using closed-vent system to an open flame flare, required to comply with NESHAP Part 63, Subpart SS at § 63.987 for flares and with § 63.997(a), (b), and (c) for provisions regarding flare compliance assessments.

40 CFR § 63.987(a) - required to comply with 40 CFR § 63.11(b).

40 CFR § 63.987(b) - provisions for flare compliance assessments stated.

40 CFR § 63.997(a), (b), and (c) - additional provisions regarding flare compliance assessments stated.

NESHAP Part 63, Subpart A (General Provisions - performance testing/flare compliance assessment)

40 CFR § 63.11(b) - open flame flare specifications

40 CFR § 63.11(b)(6)(ii) - open flame flare net heating value not less than 11.2 MJ/scm (300 BTU/scf), if flare is **steam** assisted.

40 CFR § 63.11(b)(6)(ii) - also contains the stated calculation method for determining open flame flare net heating value, if flare is **steam** assisted.

40 CFR § 63.11(b)(7)(i) - open flame flare exit (tip) velocity not to exceed 18.3 m/sec (60 ft/sec), if net heating value does not exceed 37.3 MJ/scm (1,000 BTU/scf), if flare is **steam** assisted. OR

40 CFR § 63.11(b)(7)(ii) - open flame flare exit (tip) velocity equal to or larger than 18.3 m/sec (60 ft/sec), but less than 122 m/sec (400 ft/sec) if net heating value is larger than 37.3 MJ/scm (1,000 BTU/scf), if flare is **steam** assisted. OR

40 CFR § 63.11(b)(7)(iii) - open flame flare exit (tip) velocity less than  $V_{max}$  and less than 122 m/sec (400 ft/sec), if flare is **steam** assisted.

40 CFR § 63.11(b)(7)(iii) - contains the stated calculation method for determining  $V_{max}$  in 40 CFR § 63.11(b)(7)(iii), if flare is **steam** assisted.

2. Applicable Federally Enforceable Texas SIP Rules:

HRVOC Monitoring and Testing Requirements of § 115.725, codified at 30 Texas Administrative Code (TAC), Chapter 115, Subchapter H, Division 1 (Vent Gas Control).

Required to install, calibrate, maintain, and operate for the VOC containing gas going into the flare:

1. Continuous monitoring system for flow rate, and
2. On-line analyzer (continuous monitoring system) for molecular weight and net heating value.

Kathleen Hartnett White, *Chairman*  
Larry R. Soward, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 23, 2007

Mr. John Hellstrom  
Environmental Superintendent  
Chevron Phillips Chemical Company, LP  
1400 Jefferson Road  
Pasadena, Texas 77506

Re: Approval of Modification Request for Cooling Tower Monitoring, Title 30 Texas Administrative Code (30 TAC), Chapter 115, Subchapter H, Highly Reactive Volatile Organic Compounds (HRVOC), Division 2, Chevron Phillips Chemical Company, LP (Chevron Phillips), Pasadena Plastics Complex, Pasadena, Harris County, Texas, Texas Commission on Environmental Quality (TCEQ) Regulated Entity No. 102018322.

Dear Mr. Hellstrom:

This letter is in response to a Chevron Phillips letter dated January 24, 2007, requesting approval of a modification to the cooling tower monitoring requirements of 30 TAC Chapter 115, Subchapter H, Division 1, §115.764(a)(6) and (b)(6). Specifically, Chevron Phillips wishes to install a peristaltic pump in the sampling system to improve performance and is requesting approval to use either Tygon® 2001 Plasticizer Free or FKM Fluoroelastomer tubing because these materials are better suited for use with peristaltic pumps. Sampling systems used for §115.764(a)(6) or (b)(6) must be demonstrated equivalent to the air stripping apparatus used in Appendix P of the TCEQ Sampling Procedures Manual. Chevron Phillips provided comparative test data with the request to demonstrate that the alternative materials do not significantly impact the monitoring results.

Based on the information by Chevron Phillips, the alternative tubing materials do not significantly affect the HRVOC monitoring results when used with the peristaltic pump. Therefore, TCEQ approves Chevron Phillips' request dated January 24, 2007 to use either Tygon® 2001 tubing or the FKM Fluoroelastomer tubing with the peristaltic pump in the cooling tower water sample delivery system. This approval is site-specific to the Chevron Phillips Pasadena Plastics Complex in Pasadena, Texas, and applicable only to the monitoring requirements of 30 TAC Chapter 115, Subchapter H, Division 2. If you have any questions concerning this determination, please contact me at the letterhead address, Mail Code MC-206, by telephone at (512) 239-6041, or by email at [vmeiller@tceq.state.tx.us](mailto:vmeiller@tceq.state.tx.us).

Sincerely,

A handwritten signature in cursive script that reads "Vincent R. Meiller".

Vincent R. Meiller  
Air Quality Planning Section

**Appendix A**

**Acronym List ..... 190**

## 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
COMS	.....	continuous opacity monitoring system
CVS	.....	closed-vent system
D/FW	.....	Dallas/Fort Worth (nonattainment area)
DR	.....	Designated Representative
ELP	.....	El Paso (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
GF	.....	grandfathered
gr/100 scf	.....	grains per 100 standard cubic feet
HAP	.....	hazardous air pollutant
H/G/B	.....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S	.....	hydrogen sulfide
ID No.	.....	identification number
lb/hr	.....	pound(s) per hour
MMBtu/hr	.....	Million British thermal units per hour
MRRT	.....	monitoring, recordkeeping, reporting, and testing
NA	.....	nonattainment
N/A	.....	not applicable
NADB	.....	National Allowance Data Base
NO <sub>x</sub>	.....	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
PM	.....	particulate matter
ppmv	.....	parts per million by volume
PSD	.....	prevention of significant deterioration
RO	.....	Responsible Official
SO <sub>2</sub>	.....	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.....192**

Permit Numbers 4437A, PSDTX808, and N014M1 (11/20/2015)

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
1000	Catalytic Activator 1 Main Burner	PM	0.05	---	14	14, 21	
		PM10	0.05	---			
		PM2.5	0.05	---			
		SO2	<0.01	---			
		NOx	0.67	---			
		CO	0.56	---			
		VOC	0.04	---			
83	Catalytic Activator 2 Main Burner	PM	0.05	---	14	14, 21	
		PM10	0.05	---			
		PM2.5	0.05	---			
		SO2	<0.01	---			
		NOx	0.67	---			
		CO	0.56	---			
		VOC	0.04	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
86	Catalytic Activator 3 Main Burner	PM	0.05	---	14	14, 21	
		PM10	0.05	---			
		PM2.5	0.05	---			
		SO2	<0.01	---			
		NOx	0.67	---			
		CO	0.56	---			
		VOC	0.04	---			
146	Catalytic Activator 4 Main Burner	PM	0.05	---	14	14, 21	
		PM10	0.05	---			
		PM2.5	0.05	---			
		SO2	<0.01	---			
		NOx	0.67	---			
		CO	0.56	---			
		VOC	0.04	---			
170	Catalytic Activator 5 Main Burner	PM	0.05	---	14	14, 21	
		PM10	0.05	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM2.5	0.05	---			
		SO2	<0.01	---			
		NOx	0.67	---			
		CO	0.56	---			
		VOC	0.04	---			
1000, 83, 86, 146, and 170	Catalytic Activator Burners 1-5	PM	---	0.94	14	14, 21	
		PM10	---	0.94			
		PM2.5	---	0.94			
		SO2	---	0.07			
		NOx	---	12.34			
		CO	---	10.37			
		VOC	---	0.68			
1001	Catalytic Activator 1 HEPA Filter Vent	PM	<0.01	---	4, 14	4, 14, 21	4
		PM10	<0.01	---			
		PM2.5	<0.01	---			
		CO	5.17	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		VOC	1.43	---			
1002	Catalytic Activator 2 HEPA Filter Vent	PM	<0.01	---	4, 14	4, 14, 21	4
		PM10	<0.01	---			
		PM2.5	<0.01	---			
		CO	5.17	---			
		VOC	1.43	---			
1003	Catalytic Activator 5 HEPA Filter Vent	PM	<0.01	---	4, 14	4, 14, 21	4
		PM10	<0.01	---			
		PM2.5	<0.01	---			
		CO	5.17	---			
		VOC	1.43	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
1003A	Catalytic Activator 3 HEPA Filter Vent	PM	<0.01	---	4, 14	4, 14, 21	4
		PM10	<0.01	---			
		PM2.5	<0.01	---			
		CO	5.17	---			
		VOC	1.43	---			
1003B	Catalytic Activator 4 HEPA Filter Vent	PM	<0.01	---	4, 14	4, 14, 21	4
		PM10	<0.01	---			
		PM2.5	<0.01	---			
		SO2	0.28	---			
		CO	5.17	---			
		VOC	1.43	---			
1001, 1002, 1003, 1003A, & 1003B	Catalytic Activators 1, 2, 3, 4, 5 HEPA Filter Vent	PM	---	<0.01	4, 14	4, 14, 21	4
		PM10	---	<0.01			
		PM2.5	---	<0.01			
		SO2	---	0.19			
		CO	---	4.73			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		VOC	---	5.47			
1004	Catalytic Activator Quench Station Vent (6)	PM	<0.01	<0.01		21	
		PM10	<0.01	<0.01			
		PM2.5	<0.01	<0.01			
1005	Catalytic Activator Raw Catalyst Charging Bldg Vent	PM	<0.01	<0.01		21	
		PM10	<0.01	<0.01			
		PM2.5	<0.01	<0.01			
1006	Catalytic Activator Drum Loading Enclosure Vent	PM	<0.01	<0.01		21	
		PM10	<0.01	<0.01			
		PM2.5	<0.01	0.01			
1007	Catalytic Activator Fugitive Emissions	PM	<0.01	<0.01	10	10, 21	10
		PM10	<0.01	<0.01			
		PM2.5	<0.01	<0.01			
123, 124, 125, & 126	Ponds No. 1, 2, 3, & 4	VOC	0.79	2.03	23, 25	21, 23	
20	Administrative	PM	0.78	0.04		21	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Complex Emergency Generator	PM10	0.78	0.04			
		PM2.5	0.78	0.04			
		SO2	0.80	0.04			
		NOx	12.09	0.61			
		CO	2.60	0.13			
		VOC	0.96	0.05			
201	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
250	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
201 & 250	Flash Tank Cleanout	VOC	---	0.15	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
206	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
		VOC	0.04	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
252	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
		VOC	0.04	---			
206 & 252	Powder Additive Tanks	PM	---	0.08		21	
		PM10	---	0.08			
		PM2.5	---	0.08			
		VOC	---	0.03			
207	Pellet Dryer	VOC	0.61	2.68		21	
208	Blend Tanks	PM	0.05	0.20		21	
		PM10	0.05	0.20			
		PM2.5	0.05	0.20			
209	Off-Spec Tank	PM	0.05	---		21	
		PM10	0.05	---			
		PM2.5	0.05	---			
255	Off-Spec Tank	PM	0.05	---		21	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM10	0.05	---			
		PM2.5	0.05	---			
209 & 255	Off-Spec Tanks	PM	---	0.20		21	
		PM10	---	0.20			
		PM2.5	---	0.20			
210	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30		21	
		PM10	0.07	0.30			
		PM2.5	0.07	0.30			
217 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08		21	
		PM10	0.02	0.08			
		PM2.5	0.02	0.08			
		VOC	2.85	12.5			
219	Pellet Loadout Filter	PM	0.02	0.10		21	
		PM10	0.02	0.10			
		PM2.5	0.02	0.10			
PE6-Pellet	P6 Pellet Loss	VOC	10.45	45.76	20	20, 21	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
253	Pellet Dryer	VOC	0.61	2.68		21	
254	Blend Tanks	PM	0.05	0.20		21	
		PM10	0.05	0.20			
		PM2.5	0.05	0.20			
256	PE 6 Analyzer Vents	VOC	0.03	0.11		21	
		NOx	<0.01	0.01			
		CO	<0.01	0.01			
257	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30		21	
		PM10	0.07	0.30			
		PM2.5	0.07	0.30			
259	PE6 Piping Fugitives (5)	VOC	11.07	48.47	3, 4, 5, 6, 7, 8, 10	3, 4, 6, 21	3, 4, 10
260	Plant 6 Cooling Tower	VOC	1.18	3.86	11	11, 21	
261 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08		21	
		PM10	0.02	0.08			
		PM2.5	0.02	0.08			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		VOC	2.85	12.50			
27	Water Well Number 5 Engine	PM	0.03	0.01		21	
		PM10	0.03	0.01			
		PM2.5	0.03	0.01			
		SO2	<0.01	<0.01			
		NOx	0.27	0.12			
		CO	0.40	0.18			
		VOC	0.05	0.02			
300	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 34	
350	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 34	
300 & 350	Flash Tanks Cleanout	VOC	---	0.15	23, 25, 26, 29, 34	21, 23, 25, 26, 34	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
302	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
		VOC	0.04	---			
352	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
		VOC	0.04	---			
302 & 352	Powder Additive Tanks	PM	---	0.08		21	
		PM10	---	0.08			
		PM2.5	---	0.08			
		VOC	---	0.03			
303	Pellet Dryer	VOC	0.51	2.21		21	
304	Pellet Blending & Storage	PM	0.20	0.33		21	
		PM10	0.20	0.33			
		PM2.5	0.20	0.33			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
305	Pellet Loadout Bag Filter	PM	0.02	0.10	13	21	
		PM10	0.02	0.10			
		PM2.5	0.02	0.10			
305A	Pelletron Deduster	PM	0.09	0.38	13	13, 21	
		PM10	0.09	0.38			
		PM2.5	0.09	0.38			
306	PE7 Piping Fugitives (5)	VOC	18.52	80.95	3, 4, 6, 7, 8, 10	3, 4, 6, 10, 21	3, 4, 10
307	Plant 7 Cooling Tower	VOC	1.74	4.58	11	11, 21	
311	Fluff Hopper Car Dust Bag Filter	PM	0.04	0.10		21	
		PM10	0.04	0.10			
		PM2.5	0.04	0.10			
		VOC	0.29	1.28			
312	Pellet Hopper Car Loading Filter	PM	0.03	0.12		21	
		PM10	0.03	0.12			
		PM2.5	0.03	0.12			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
313	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05		21	
		PM10	0.01	0.05			
		PM2.5	0.01	0.05			
		VOC	2.85	12.50			
PE7-PELLET	P7 Pellet Loss	VOC	10.45	45.76	20	20, 21	
353	Pellet Dryer	VOC	0.51	2.21		21	
354	Blend Tanks	PM	0.20	0.33		21	
		PM10	0.20	0.33			
		PM2.5	0.20	0.33			
355	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05		21	
		PM10	0.01	0.05			
		PM2.5	0.01	0.05			
		VOC	2.85	12.50			
356	PE 7 Analyzer Vents	VOC	0.03	0.10		21	
		NOx	<0.01	<0.01			
		CO	<0.01	0.01			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
400	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
450	Flash Tank Cleanout	VOC	1.15	---	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
400 & 450	Flash Tanks Cleanout	VOC	---	0.15	23, 25, 26, 29, 34	21, 23, 25, 26, 29, 34	
402	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
402	Powder Additive Tank	VOC	0.04	---		21	
452	Powder Additive Tank	PM	0.07	---		21	
		PM10	0.07	---			
		PM2.5	0.07	---			
		VOC	0.04	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
402 & 452	Powder Additive Tanks	PM	---	0.08		21	
		PM10	---	0.08			
		PM2.5	---	0.08			
		VOC	---	0.03			
403	Pellet Dryer	VOC	1.82	7.97		21	
404	Pellet Blending & Storage/Cyclone	PM	0.03	0.09	16	21	
		PM10	0.03	0.09			
		PM2.5	0.03	0.09			
405	Pellet Loadout Bag Filter	PM	0.01	0.02		21	
		PM10	0.01	0.02			
		PM2.5	0.01	0.02			
406	PE8 Piping Fugitives (5)	VOC	15.02	66.01	3, 4, 6, 7, 8	3, 4, 6, 10, 21	3, 4
407	Plant 8 Cooling Tower	VOC	1.58	4.14	11	11, 21	
413	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32		21	
		PM10	0.07	0.32			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM2.5	0.07	0.32			
		VOC	2.85	12.49			
414	Pellet Transfer Hopper	PM	0.01	0.03	13	13, 21	
		PM10	0.01	0.03			
		PM2.5	0.01	0.03			
PE8-PELLET	PE 8 Pellet Loss	VOC	16.05	70.28	20	20, 21	
453	Pellet Dryer	VOC	1.82	7.97		21	
454	Blend Tanks	PM	0.03	0.09		21	
		PM10	0.03	0.09			
		PM2.5	0.03	0.09			
455	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32		21	
		PM10	0.07	0.32			
		PM2.5	0.07	0.32			
		VOC	2.85	12.49			
456	PE 8 Analyzer	VOC	0.34	0.47		21	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Vents	NOx	<0.01	<0.01			
		CO	0.01	<0.01			
65	Underground Gas Tank	VOC	8.33	0.04		21	
65.2	Diesel Tank	VOC	0.26	0.01		21	
900	HC Storage Fugitives (5)	VOC	0.31	1.33	4, 6, 7, 8, 9, 10	4, 6, 10, 21	4, 10
901	HC Storage Fugitives (5)	VOC	1.89	8.27	4, 6, 7, 8, 9, 10	4, 6, 10, 21	4, 10

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
308 (7)	PE 6/7 Flare	NOx	46.99	---	12, 19	12, 16, 19, 21	
		CO	402.90	---			
		VOC	172.05	---			
		SO2	0.22	---			
408 (7)	PE8 Flare	NOx	46.99	---	12, 19	12, 16, 19, 21	
		CO	402.90	---			
		VOC	172.05	---			
		SO2	0.22	---			
216 (7)	PE Flare	NOx	46.99	---	12, 19	12, 16, 19, 21	
		CO	402.90	---			
		VOC	172.05	---			
		SO2	0.22	---			

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
308, 408, and 216 (7), (8)	All Flares Routine Emissions (CO, SO <sub>2</sub> , and NO <sub>x</sub> limits include both routine and MSS)	NO <sub>x</sub>	46.99	53.00	12, 19	12, 16, 19, 21, 23, 25, 27, 34	35
		CO	402.90	460.00			
		VOC	172.05	184.80			
		SO <sub>2</sub>	0.22	0.34			
308, 408, and 216 (7), (8)	All Flares MSS Emissions	VOC	172.58	11.40	12	12, 19, 21, 23, 25, 27, 34	
201, 206, 216 (7), 217A, 217B, 250, 252, 259, 261A, 261B, 300, 302, 306, 308 (7), 311, 313, 350, 352, 355, 400, 402, 406, 408 (7), 413, 450, 452, 455, 901, PE6-PELLET, PE7-PELLET, PE8-PELLET	Hexene Cap	Hexene	21.95	64.29	4, 12	4, 12, 19, 21, 25, 34	4

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
MSSCAP	MSS Cap (EPNs 8, 10, 902, 903, DEG-1, 2, 3, 4, 6, PEPPMSSATM, PEPPMSSLD), AEROSOL, MISCMSS, FLTCOMSS, PE6CFMSS, PE7CFMSS, PE8CFMSS	VOC	67.96	12.14	25, 26	15, 18, 21, 23, 25,26, 27, 28, 32, 34	
		PM	9.54	2.26			
		PM10	8.03	1.35			
		PM2.5	8.03	1.35			

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

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

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

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

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

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

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

CO - carbon monoxide

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

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(6) Emergency use only.

(7) Emission limits for Flare 216 (EPN 216), Flare 308 (EPN 308, and Flare 408 (EPN 408) include routine and off-gas operation. Flare emissions are based on total flow rate and composition of all process vents.

(8) Combined emission limits designated as “All Flares” shall not be exceeded no matter how many flares are in operation.

Date: 11/20/2015



## Texas Commission on Environmental Quality Air Quality Permit

*A Permit Is Hereby Issued To*  
**Chevron Phillips Chemical Company LP**  
*Authorizing the Construction and Operation of*  
**Pasadena Plastics Plant**  
*Located at Pasadena, Harris County, Texas*  
Latitude 29° 43' 40" Longitude -95° 10' 52"

Permits: 4437A, PSDTX808, and N014M2

Amendment Date: November 20, 2015

Expiration Date: February 12, 2017

A handwritten signature in black ink, appearing to read "R. D. A. Hyle".

For the Commission

- 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)]<sup>1</sup>
- 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]
- 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)]
- 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)]
- 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)] <sup>1</sup>
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. <sup>1</sup>

<sup>1</sup> Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

## SPECIAL CONDITIONS

Permit Numbers 4437A, PSDTX808, and N014M2

### 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 requirements specified in the special conditions.
2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions with the exception of those listed below: **(04/12)**

<u>Plant VI</u>	<u>Plant VII</u>	<u>Plant VIII</u>
PSV-11019	PSV-11019	PSV-11019
PSV-11020	PSV-11020	PSV-11020
PSV-21019	PSV-21019	PSV-11300
PSV-21020	PSV-21020	PSV-21019
		PSV-21020

### Federal Applicability

3. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
  - A. Subpart A, General Provisions.
  - B. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.
  - C. Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006. **(11/15)**

## SPECIAL CONDITIONS

Permit Numbers 4437A, PSDTX808, and N014M2

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4. 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, National Emission Standard for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.
5. If any condition of this permit is more stringent than the applicable regulations in Special Condition Nos. 3 and 4, then for the purposes of complying with this permit, the permit shall govern and be the standard by which compliance shall be demonstrated.

### Process Fugitive Monitoring

#### 6. Piping, Valves, Connectors, Pumps, and Compressors in VOC Service - 28VHP

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

- A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pound per square inch, absolute (psia) at 68EF 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 to be made available upon request.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute, American Petroleum Institute, American Society of Mechanical Engineers, or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
- 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. Non-accessible valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made available upon request.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. No later than the next scheduled quarterly monitoring after initial installation or replacement, all new or reworked connections shall be gas-tested or hydraulically-tested at no less than normal operating pressure and adjustments made as necessary

## SPECIAL CONDITIONS

Permit Numbers 4437A, PSDTX808, and N014M2

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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 a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.

- 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. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

An approved gas analyzer shall conform to requirements listed in Title 40 Code of Federal Regulations § 60.485(a) - (b) [40 CFR § 60.485(a) - (b)].

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 and compressor 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 an 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 and compressor seals found to be emitting VOC in excess of 500 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. **(04/14)**
- I. Every reasonable effort shall be made to repair a leaking component, as specified in this paragraph, within 15 days after the leak is found. If the repair of a component would require a unit shutdown, 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. At the discretion of the Texas Commission on Environmental Quality (TCEQ) Executive Director or designated

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representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.

- J. The results of the required fugitive instrument monitoring and maintenance program shall be made available to the TCEQ Executive Director or designated representative upon request. Records shall indicate appropriate dates, test methods, instrument readings, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of physical inspections are not required unless a leak is detected.
  - 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 through 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. **(2/07)**
7. Reduced Leak Detection Limit for Pumps and Compressors - All pumps and compressors shall be monitored in accordance with Special Condition No. 6G using a leak detection limit of 500 ppmv. **(12/04)**
8. A. All insulated valves and flanges/connectors in gas/vapor service and light liquid service are exempt from monitoring requirements using an approved gas analyzer but shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. **(2/07)**
- B. 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 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 at the end of 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

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all other situations, leaks are indicated by readings 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. **(5/11)**

9. In addition to the weekly physical inspection required by Item E of Special Condition 6, all accessible connectors in highly reactive volatile organic compound (HRVOC) gas/vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items F thru J of Special Condition 6. (28CNTQ)

- A. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

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

- B. The percent of connectors leaking used in paragraph A shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

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

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period. **(04/14)**

10. These facilities shall comply with all applicable requirements of 30 TAC §115.780 through §115.789. **(04/14)**

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11. 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 results of the monitoring, cooling water flow rate, and maintenance activities on the cooling water system shall be recorded. The monitoring results and cooling water hourly mass flow rate shall be used to determine cooling tower hourly VOC emissions. The rolling 12 month cooling water emission rate shall be recorded on a monthly basis and be determined by summing the VOC emissions between VOC monitoring periods over the rolling 12 month period. The emissions between VOC monitoring periods shall be obtained by multiplying the total cooling water mass flow between cooling water monitoring periods by the higher of the 2 VOC monitored results.

The monitoring method and calculation in 30 TAC Chapter 115, Subpart H, Division 2 can be used as an acceptable alternative. **(11/15)**

### Operational Limits

#### 12. Flare Conditions

Each flare (EPNs 216, 308, and 408) shall be designed and operated in accordance with the following requirements:

- A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.

The heating value and velocity requirements 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 flares shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.
- C. The flares 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 air assist to the flares.

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- D. The permit holder shall install (1) a continuous flow monitor and (2) a composition analyzer or calorimeter that provide a record of the vent stream flow and composition (total VOC or Btu content) 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 (or Btu content) 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  $\pm 5.0\%$ , temperature monitor shall be  $\pm 2.0\%$  at absolute temperature, and pressure monitor shall be  $\pm 5.0$  mm Hg.

For VOC monitoring, 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).

For calorimeter monitoring, the calorimeter shall be calibrated, installed, operated, and maintained, in accordance with manufacturer recommendations, to continuously measure and record the net heating value of the gas sent to the flare, in British thermal units/standard cubic foot of the gas.

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 calendar year. 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.

For VOC monitoring, hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit amendment application (PI-1 dated September 24, 2013). **(11/15)**

- E. Compliance with the heating value and velocity requirements of 40 CFR 60.18 may be achieved utilizing the on-line continuous flow and GC monitoring equipment required by 30 TAC Chapter 115, Subchapter H.

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- F. All components in the closed vent capture systems, which include all equipment that contains, collects, and transports air pollutants from a source to the flares EPNs 216, 308, and 408, shall be subject to the requirements of the 28VHP Leak Detection and Repair Program in accordance with Special Condition No. 6. **(11/15)**
- G. All bypasses for flares shall comply with either of the following requirements: **(09/09)**
- (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;
  - (2) Once a month, inspect the valves, verifying that 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 flare. A bypass for this paragraph does not include analyzer vents that are permitted, highpoint bleeder vents or low point drains for maintenance, or rupture discs used in series with a pressure relief valves that have pressure monitoring between which is checked and recorded at least weekly.

- H. Records of the inspection required shall be maintained and if the results of any of the above inspection are not satisfactory, the permit holder shall promptly take necessary corrective action. **(09/09)**

### 13. Fabric Filter Conditions

- A. All fabric filter systems shall be effective in capturing emissions from their associated equipment and in preventing particulate emissions from escaping. The fabric filter systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system.
- B. Each fabric filter vent covered by this permit shall not operate unless the filter and associated equipment is maintained in good working order and operating during normal facility operations. The following steps shall be performed, at a minimum, to ensure proper operation of each filter, and records of these steps shall be maintained:
- (1) Vent sock filters will be inspected weekly for visible emissions or for any of the following conditions: (a) the vent sock is wet, (b) the vent sock is not “breathing,” or (c) the vent sock has a buildup of fines restricting flow. Should adjustments not correct the observed conditions, product handling activity that causes particulate emissions will be stopped and the damaged or failed part will be changed out. **(11/03)**

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- (2) Pulse bagfilter houses and receivers will be inspected externally once per quarter for visible stack emissions or damage that allows excessive particulate emissions to be emitted. Should excessive pressure drop or visible emissions be observed at other times, operating or mechanical adjustments may be undertaken to correct the observed conditions. If the observed conditions are not correctable by adjustment, the filter will be isolated and shut down at the earliest opportunity, not to exceed five business days, from observation of the condition. The filter elements will be visually inspected and changed out should one of the following conditions exist: (a) the filter is torn, (b) the filter is deformed, (c) the filter is discolored, or (d) the filter has a buildup of fines restricting flow. **(11/03)**
  - (3) Tanks exhausting to the atmosphere through filters will be inspected once per month for visible emissions and for any of the following conditions: (a) the filter is torn, (b) the filter is deformed, (c) the filter has a buildup of fines restricting flow, or (d) the filter has watermarks on it. Should adjustments not correct the observed conditions, product handling activity that causes particulate emissions will be stopped and the damaged or failed part will be changed out. **(11/03)**
  - (4) Pulse cartridges will be visually inspected externally once every six months for visible emissions or damage that allows excessive particulate emissions to be emitted. Should the pressure drop exceed 5 pounds per square inch gauge (psig) or there are visible stack emissions observed at other times, operating or mechanical adjustments may be undertaken to correct the observed conditions. If the observed conditions are not correctable by adjustment, the filter will be isolated and shutdown. The filter elements will be visually inspected and changed out should one of the following conditions exist: (a) the filter is torn, (b) the filter is deformed, (c) the filter is discolored, or (d) the filter has a buildup of fines restricting flow. **(11/03)**
- C. In addition to the requirements of Paragraphs A. and B. of this condition, the bin vent filters associated with the Pellet Transfer Hopper (EPN 414) and the Pelletron Deduster (EPN 305A) shall be operated in accordance with the following conditions:
- (1) Particulate matter grain loading shall not exceed 0.01 grain per dsf of air.
  - (2) There shall be no visible emissions exceeding 30 seconds in any six-minute period as determined using U.S. Environmental Protection Agency (EPA) Test Method 22. Records of Method 22 observations shall be kept at the plant site for at least two years and be made immediately available upon request of TCEQ personnel or any local air pollution control program having jurisdiction. **(11/15)**

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### Polyethylene Catalyst Activation Facilities

14. The following conditions apply to the Polyethylene Catalyst Activation Facilities:
  - A. All waste gas from point sources containing particulate matter (PM) and PM<sub>10</sub> shall be routed to a high efficiency particulate air (HEPA) filter with the exception of flue gas produced by the catalyst activator burners. Each HEPA filter shall operate with no less than 99.97 percent efficiency in controlling PM and PM<sub>10</sub>. The waste gas streams shall include storage tank vents, pressurized tank vents, start-up and shutdown-related emissions or purges, blowdowns, or other system emissions of waste gas. A listing of the equipment vented to each HEPA filter shall be compiled in a list kept at the plant site and be made immediately available upon request of TCEQ personnel or any local air pollution control program having jurisdiction. Any other exception to this condition requires prior review and approval by the TCEQ Executive Director, and such exceptions may be subject to strict monitoring requirements.
  - B. The HEPA filters shall be monitored by use of the pressure in the activators which is displayed in the operating control room. An alarm shall activate in the operating control room if the pressure in an activator exceeds 5 psig. Upon alarming, the stream to the associated HEPA filter shall be manually switched to an installed spare filter or the affected activator units shall be shut down. If the stream is switched to installed spare filter then the affected filter shall be isolated and shutdown. The isolated filter shall be inspected; failed or damaged parts shall be repaired or replaced. **(8/07)**
    - (1) All HEPA filter systems shall be effective in capturing emissions from their associated equipment and in preventing particulate emissions from escaping. The HEPA filter systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system.
    - (2) Each HEPA filter system covered by this permit shall not operate unless the filter and associated equipment is maintained in good working order and operating during normal facility operations.
  - C. Fuel for the activator burners shall be limited to pipeline-quality, sweet fuel gas only. Use of any other fuel will require an amendment to the permit.

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### Miscellaneous Operations

15. Records of hopper railcar paint and sandblasting consumption used to calculate the contribution from EPN 902 to the Non Flare PM/PM<sub>10</sub> Sources cap and EPN 903 to the Miscellaneous Facility VOC cap shall be kept at the plant site for the last two years demonstrating compliance with this requirement and shall be made immediately available to TCEQ personnel upon request. **(2/07)**

### Polyethylene VI, VII, and VIII Process Unit Conditions

16. The following conditions apply to Polyethylene VI, VII, and VIII Plants:
  - A. Total VOC emitted to the atmosphere between the pellet shaker screen and the point of final product loading shall not exceed 150 lbs of VOC per million pounds (MMlbs) of product on an annual average basis at the maximum production rates represented in the confidential section of the permit application. Ongoing compliance with this condition for the polymer pellet systems shall be determined for each train by calculation as described in Special Condition No. 21. **(04/12)**
  - B. For any product type produced for less than one week at a time, (i.e., between normal weekly sample schedules), product VOC emissions may be estimated based upon residual VOC data obtained for the same or similar product produced at other times. **(11/03)**

### Hydrocarbon Loading/Unloading Facility Conditions

17. Transfer of the following materials at the Hydrocarbon Loading/Unloading Facility is authorized: isobutane, hexene, and n-hexane. Displacement gases resulting from these transfer operations shall be routed to a flare for disposal. Loading records indicating the date of loading operations and which material was transferred shall be maintained. **(12/04)**

### Chemical Flexibility

18. Except as provided for below, the use of compounds at the facility is limited to those identified in the permit renewal application dated January 31, 2006. New compounds may be added through the use of the procedure below, 30 TAC Chapter 106, or 30 TAC Chapter 116. **(2/07)**
  - A. Short-term (pounds per hour [lb/hr]) and annual (TPY) emissions and calculations shall be completed for each chemical at each affected source. Emission rates (ER) shall be calculated in accordance with the following methods: as documented in the permit renewal application dated January 31, 2006, AP-42 emission factors and

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equations to determine tank and loading emissions, TCEQ fugitive emission factors with appropriate control as identified in the guidance document, "Equipment Leak Fugitives" to determine piping fugitive emissions; and acceptable engineering calculations. The calculated ER shall not exceed the maximum allowable emissions rate at any emission point.

- B. The Effect Screening Level (ESL) for the material shall be obtained from the current TCEQ ESL list or by written request to the TCEQ Toxicology Section.
- C. The total emissions of any compound from all emission points in this permit must satisfy one of the following conditions:

- (1) The total maximum ER from all sources is less than 0.04 lb/hr and the ESL greater than  $2 \mu\text{g}/\text{m}^3$ ; or
- (2) (Case specific criteria based on modeling performed. In the simplest case, for only one emission point,

$$(\text{ER}/\text{ESL})_N \quad \# \quad (\text{ER}/\text{ESL})_E$$

$(\text{ER}/\text{ESL})_N$  = maximum hourly ER of new compound(s) divided by its ESL

$(\text{ER}/\text{ESL})_E$  = the highest ratio of any previously authorized compounds hourly ER divided by its ESL)

- D. The permit holder shall maintain records of the information below and the demonstrations in steps A through C above. The following documentation is required for each compound:
- (1) Chemical name(s), composition, and chemical abstract registry number if available.
  - (2) True vapor pressure at maximum hourly and annual average storage temperature.
  - (3) Molecular weight.
  - (4) Storage tanks, loading areas, and fugitive areas where the material is to be handled and the emission control device to be utilized.
  - (5) Date new compound handling commenced.
  - (6) Material Safety Data Sheet.
  - (7) Maximum concentration of the chemical in mole percent (or in weight percent for fugitive areas) in the affected facilities.

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### Recordkeeping

19. The permittee shall maintain records of the calculated hourly average heating value (British thermal unit per standard cubic foot [scf] of the total gas streams including waste gases and supplemental fuel) sent to each flare for each operating day. This condition shall be satisfied by installing and maintaining a monitoring system that meets the requirements of HRVOC found in Chapter 115, Subchapter H, Division 1: Vent Gas Control. **(2/07)**

20. Polyethylene VI, VII, and VIII **(2/07)**

Polyethylene production for each month and on a rolling 12-month basis.

Weekly compliance records shall include (but are not limited to):

- A. Date and time of sample.
- B. Product designation by product type.
- C. Measured residual VOC concentration (ppm or lb VOC/MMlbs of product) in the at product from the pellet shaker screen (A) and at the point of final product loading (B).
- D. Calculated difference in residual VOC concentration (ppm or lbs VOC/MMlb of product) of (A-B).
- E. Total weekly product pellet production in lbs.
- F. Total VOC emitted to the atmosphere between points A and B shall be calculated by (A-B) multiplied by weekly pellet production. Calculations shall take into account any changes in product type during the week.
- G. For VOC emission estimates made in accordance with Special Condition No. 16B, maintain the data used to estimate the difference in the residual VOC of the product from the pellet shaker screen and at the point of product loading.

21. Emission Rate Calculations **(12/13)**

The holder of this permit shall provide a continuous demonstration of compliance with the emission limits listed in the attached table entitled "Emission Sources – Maximum Allowable Emission Rates" (MAERT) by calculating and recording aggregate air contaminant emission rates as follows: **(12/13)**

Within 90 days after the end of the month, the permittee shall calculate and record air contaminant emission rates for the calendar month in units of tons per month

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(tons/month) and for a rolling 12-month period in units of tons per year (TPY) for each of the emission points and caps listed on the MAERT the following air contaminants:  
**(11/15)**

- CO
- Nitrogen Oxides (NO<sub>x</sub>)
- PM<sub>10</sub>
- PM<sub>2.5</sub>
- VOC
- Hexene

The permittee shall also maintain sufficient records to be able to calculate and provide a demonstration of compliance with the lbs/hr emission rates for individual operating days for each emission points and caps upon request of TCEQ personnel or a local air pollution control program having jurisdiction. **(12/13)**

The following emission factors or methodologies shall be used in these calculations. (If the permittee measures the emissions of some of these vents, other than piping fugitives, using TCEQ-approved methods and frequencies, the measured results may be substituted for that emission point.)

Particulate emissions (PM<sub>10</sub> and PM<sub>2.5</sub>) emissions from bin vents (bag filters) shall be calculated using the maximum volumetric flow rate (cfm), applicable grain loading factor (gr/dscf), and speciation method (PM<sub>10</sub> versus PM<sub>2.5</sub>) as approved by the TCEQ. Flare emissions shall be calculated using equipment and measurement methodology that will comply with the provisions for HRVOC found in Chapter 115, Subchapter H, Division 1: Vent Gas Control. Hexene emissions may be estimated utilizing either the emission factors represented in obtaining the permit, emission factors determined through process knowledge and verified by quarterly measurements, or emission rates obtained through the use of on-line measuring and monitoring systems. **(11/15)**

Activator heater emission factors: **(12/02)**

- CO - 84 lbs per Million standard cubic feet (MMscf)
- NO<sub>x</sub> - 100 lbs per MMscf
- PM<sub>10</sub> - 7.6 lb per MMscf
- SO<sub>2</sub> - 0.6 lb per MMscf
- VOC - 5.5 lbs per MMscf

Cooling tower emissions shall be calculated using the results of the on-line monitoring system specified in Special Condition No. 11. **(2/07)**

Process fugitive emission factors:

The permittee shall use the emission factors and reduction credits used in the ~~flexible~~ permit application. If a process unit is not in operation, but process fluids are being

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maintained in the lines, process fugitives shall be calculated and included in the emission rate calculation. Total VOC and hexene shall be calculated. The permittee shall not use measured emission rates for these sources in calculating the emission rates.

The following factor shall be used to account for other carbon monoxide (CO) sources at the Polyethylene Catalyst Activation Facilities: CO - 0.081 lb per lb catalyst charged per year of the type represented in the permit application.

Polyethylene VI, VII, and VIII product degassing VOC emissions shall be obtained from records compiled in accordance with Special Condition No. 20C expressed in lbs/hr and tons/month. Each train shall be included.

This permit authorizes emissions from the Flares (EPNs 216, 308, and 408) for the maintenance, start-up, and shutdown activities shown in the revised Attachment B: Maintenance Emission Overview dated January 31, 2006. These emissions are subject to the emission limits that indicated on the MAERT. Any maintenance, start-up, and shutdown activities not in Attachment B are not authorized by this permit. Records shall be kept at the plant site on a rolling five-year basis demonstrating compliance with the Flare System Start-up, Shutdown, and Maintenance cap value shown on the MAERT. These records shall be made available to TCEQ personnel or any local air pollution control agency with jurisdiction. **(11/15)**

### Polyethylene (PE) Off-Gas Conditions

22. Description - The following PE off-gases shall be routed to the flare fuel gas system for use as flare fuel gas.

#### Polyethylene

- (1) PE-6 - Deethanizer column overhead gases
- (2) PE-7 - Deethanizer column overhead gases
- (3) PE-8 - Deethanizer column overhead gases

### Planned Maintenance, Startup, and Shutdown (MSS)

23. This permit authorizes the planned startup and shutdown emissions from the activities in this permit identified in Attachment C.

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

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

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

- A. the process unit at which emissions from the MSS activity occurred, including the emission point number and common name of the process unit;
- B. the type of planned MSS activity and the reason for the planned activity;
- C. the common name and the facility identification number, if applicable, of the facilities at which the MSS activity and emissions occurred;
- D. the date and time of the MSS activity and its duration;
- E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the permit application, consistent with good engineering practice.

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis. **(09/11)**

24. This permit authorizes emissions from the following temporary facilities used to support planned MSS activities at permanent site facilities: frac tanks, containers, vacuum trucks, facilities used for painting or abrasive blasting, and controlled recovery systems. Emissions from temporary facilities are authorized provided the temporary facility (a) does not remain on the plant site for more than 12 consecutive months, (b) is used solely to support planned MSS activities at the permanent site facilities listed in this Attachment, and (c) does not operate as a replacement for an existing authorized facility. **(03/12)**
25. Process units and facilities, with the exception of those identified in Special Condition No. 28 and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements.

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- A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the actual process temperature or 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.
- B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the actual process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.
- C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
- D. If the VOC partial pressure is greater than 0.50 psi at the normal process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through the control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization. The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application.
  - (1) For MSS activities identified in Attachment B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.
  - (2) The locations and/or identifiers where the purge gas or steam enters the process equipment or storage vessel and the exit points for the exhaust gases

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shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable-VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition No. 26. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above. **(03/12)**

- E. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:
- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
  - (2) There is not an available connection to a plant control system (flare).
  - (3) There is no more than 50 lb of air contaminant to be vented to atmosphere during shutdown or startup, as applicable.

All instances of venting directly to atmosphere per Special Condition No. 25E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified in Attachment B. **(03/12)**

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

- A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:
- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas. The calibration gas used and its concentration, and the vapor to be sampled and its approximate response factor (RF), shall be recorded. If the RF of the VOC (or mixture of VOCs) to be monitored is greater than 2.0, the VOC concentration shall be determined as follows:

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VOC Concentration = Concentration as read from the instrument\*RF

- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.
- B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.
- (1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in (3), the concentration measured is at least 20 percent of the maximum range of the tube.
  - (2) The tube is used in accordance with the manufacturer's guidelines.
  - (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:

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

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

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

- C. Lower explosive limit measured with a lower explosive limit detector.
- (1) The detector shall be calibrated within 30 days of use with a certified propane standard at 50% of the lower explosive limit (LEL) for propane. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
  - (2) A daily functionality test shall be performed on each detector within 24 hours of use using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

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- (3) A certified methane gas standard equivalent to 25% of the LEL for propane may be used for calibration and functionality tests provided that the LEL response is within 95% of that for propane. **(03/12)**
27. The following requirements apply to vacuum and air mover truck operations to support planned MSS at this site:
  - A. Vacuum pumps and blowers shall not be operated on trucks containing or vacuuming liquids with VOC partial pressure greater than 0.50 psi at 95°F unless the vacuum/blower exhaust is routed to a control device or a controlled recovery system.
  - B. Equip fill line intake with a “duckbill” or equivalent attachment if the hose end cannot be submerged in the liquid being collected.
  - C. A daily record containing the information identified below is required for each vacuum truck in operation at the site each day.
    - (1) Prior to initial use, identify any liquid in the truck. Record the liquid level and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system. After each liquid transfer, identify the liquid transferred and document that the VOC partial pressure is less than 0.50 psi if the vacuum exhaust is not routed to a control device or a controlled recovery system.
    - (2) For each liquid transfer made with the vacuum operating, record the duration of any periods when air may have been entrained with the liquid transfer. The reason for operating in this manner and whether a “duckbill” or equivalent was used shall be recorded. Short, incidental periods, such as those necessary to walk from the truck to the fill line intake, do not need to be documented.
    - (3) If the vacuum truck exhaust is controlled with a control device other than an engine, flare, or oxidizer, VOC exhaust concentration upon commencing each transfer, at the end of each transfer, and at least every hour during each transfer shall be recorded, measured using an instrument meeting the requirements of Special Condition No. 26.
    - (4) The volume in the vacuum truck at the end of the day, or the volume unloaded, as applicable.
  - D. The permit holder shall determine the vacuum truck emissions each month using the daily vacuum truck records and the calculation methods utilized in the permit application. If records of the volume of liquid transferred for each pick-up are not maintained, the emissions shall be determined using the physical properties of the liquid vacuumed with the greatest potential emissions. Rolling 12-month vacuum truck emissions shall also be determined on a monthly basis.

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- E. If the VOC partial pressure of all the liquids vacuumed into the truck is less than 0.10 psi, this shall be recorded when the truck is unloaded or leaves the plant site and the emissions may be estimated as the maximum potential to emit for a truck in that service as documented in the permit application. The recordkeeping requirements in Special Condition No. 27A through 27D do not apply.

If the liquid vacuumed into the truck is a mixture of water and polymer pellets with a VOC vapor pressure less than 0.0002 psia, then the requirements of Special Condition No. 27 do not apply. **(03/12)**

- 28. The following requirements apply to frac, or temporary, tanks and vessels used in support of MSS activities.
  - A. The exterior surfaces of these tanks/vessels that are exposed to the sun shall be white or aluminum effective May 1, 2013. This requirement does not apply to tanks/vessels that only vent to atmosphere when being filled.
  - B. These tanks/vessels must be covered and equipped with fill pipes that discharge within 6 inches of the tank/vessel bottom.
  - C. These requirements do not apply to vessels storing less than 100 gallons of liquid that are closed such that the vessel does not vent to atmosphere.
  - D. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all frac tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, dates put into and removed from service, control method used, tank capacity and volume of liquid stored in gallons, name of the material stored, VOC molecular weight, and VOC partial pressure at the estimated monthly average material temperature in psia. Filling emissions for tanks shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations" and standing emissions determined using: the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Storage Tanks."
  - E. If the tank/vessel is used to store liquid with VOC partial pressure less than 0.10 psi at 95°F, records may be limited to the days the tank is in service and the liquid stored. Emissions may be estimated based upon the potential to emit as identified in the permit application.
- 29. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit.

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30. All permanent facilities must comply with all operating requirements, limits, and representations in the permits identified in Attachment C during planned startup and shutdown unless alternate requirements and limits are identified in this permit.
31. If spray guns are used to apply paint, they shall be airless, high volume low pressure (HVLP), or have the same or higher transfer efficiency as airless or HVLP spray guns.
32. Emissions from all painting activities, except for minor painting identified in Attachment A to this permit, at this site must satisfy the criteria below. New compounds may also be added through the use of the procedure below.
  - A. Short-term (pounds per hour [lb/hr]) and annual (TPY) emissions shall be determined for each chemical in the paint as documented in the permit application. The calculated emission rate shall not exceed the maximum allowable emissions rate at any emission point.
  - B. The Effect Screening Level (ESL) for the material shall be obtained from the current TCEQ ESL list or by written request to the TCEQ Toxicology Section.
  - C. The total painting emissions of any compound must satisfy one of the following conditions:
    - (1) The total emission rate is less than 0.1 lb/hr and the ESL greater than or equal to 2 µg/m<sup>3</sup>; or
    - (2) The emission rate of the compound in pounds per hour is less than the ESL for the compound divided by 1000 ( $ER < ESL/1000$ ).
  - D. The permit holder shall maintain records of the information below and the demonstrations in steps A through C above. The following documentation is required for each compound:
    - (1) Chemical name(s), composition, and chemical abstract registry number if available.
    - (2) Material Safety Data Sheet.
    - (3) Maximum concentration of the chemical in weight percent
    - (4) Paint usage and the associated emissions shall be recorded each month and the rolling 12 month total emissions updated.
33. No visible emissions shall leave the property due to painting or abrasive blasting.

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- 34. With the exception of the MAERT emission limits, MSS permit conditions become effective 180 days after this permit has been issued. During this period, monitoring and recordkeeping shall satisfy the requirements of Special Condition No. 23A through 23D. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. The basis used for determining the quantity of air contaminants to be emitted shall be recorded. The permit holder may maintain abbreviated records of emissions from Attachment A and B activities as allowed in Special Condition No. 23. **(09/11)**

Volatile Organic Compound Emission Offsets

- 35. The permit holder shall utilize allowances within the Highly Reactive Volatile Organic Compound (HRVOC) Emission Cap and Trade (HECT) program in Harris County to satisfy all of the VOC offset requirement for facilities required to participate in the HECT Program. By the date of issuance of the amended permit, the permit holder shall obtain approval from the TCEQ Emission Banking and Trading (EBT) Program for the HECT allowances being used. The permit holder shall comply with the following:

- A. To satisfy the 1:1 portion of the 1.3:1 offset requirement for the project's increase of VOC emissions from facilities subject to the HECT program, the permit holder shall hold during, and surrender at the end of each HECT compliance period, 24.5 tpy of HECT allowances, regardless of whether the actual VOC emissions from the following facilities are less than this amount.

Applicable Facilities:	Flares	
	EPN 216	8.2 tpy
	EPN 308	8.2 tpy
	EPN 408	<u>8.1 tpy</u>
	Total	24.5 tpy

Note: The above listed HECT allowance allocations do not limit allowable emissions. Please refer to the flare emission cap included in the MAERT.

- B. To satisfy the 0.3 portion of the 1.3:1 offset requirement for the project's increase of VOC emissions from facilities subject to the HECT program, the permit holder shall permanently retire 7.4 tpy of HECT allowances by the date of issuance of the amended permit for the following facilities. If the HECT allowances are permanently retired before January 1, 2017, the permit holder must retire an amount of HECT allowances equivalent to 7.4 tpy in 2017 to account for any devaluation associated with the HECT reallocation required in 30 TAC §101.394(a)(1)(B). The TCEQ EBT Program shall verify that the amount of allowances retired for the 0.3 portion of the offset requirement is equivalent to 7.4 tpy in 2017.

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Applicable Facilities: Flares	
EPN 216	2.5 tpy
EPN 308	2.5 tpy
EPN 408	<u>2.4 tpy</u>
Total	7.4 tpy

Note: The above listed HECT allowance allocations do not limit allowable emissions. Please refer to the flare emission cap included in the MAERT.

- C. The permit holder shall notify the TCEQ EBT Program of the use of HECT allowances for the 1:1 portion of the VOC offset requirement for each HECT compliance period. The TCEQ EBT Program shall verify the use of these allowances.
- D. If HECT allowances devalue due to future regulatory changes, the permit holder shall acquire additional HECT allowances to hold during, and surrender at the end of, each HECT compliance period that are equivalent to the allowance devaluation (to make up for the devaluation change). However, allowances used to satisfy the 0.3:1 portion of the offset requirement do not devalue except as specified in Special Condition 35B. The TCEQ EBT Program shall verify the use of these allowances.

Representation of Particulate Emissions from Cooling Towers

- 36. The permit holder shall provide a representation of PM, PM10, and PM2.5 emissions from the cooling towers (EPNs 260, 307, 407) with the next application to amend or renew NSR Permit No. 4437A, whichever is earlier. PM, PM10, and PM2.5 emissions from the cooling towers and the associated special conditions shall be incorporated into NSR Permit No. 4437A at the next amendment or renewal, whichever is earlier.

Consent Decree Requirements

- 37. The permit holder shall comply with all requirements in the United States Environmental Protection Agency Consent Decree and Final Order, Docket No. CAA-06-2012-3321. An excerpt of the decree is incorporated in Attachment D of these special conditions.

Dated: November 20, 2015

ATTACHMENT A

Permit Numbers 4437A, PSDTX808, and No14M2

Inherently Low Emitting Activities

Activity	Emissions				
	VOC	NOx	CO	PM	H <sub>2</sub> S/SO <sub>2</sub>
Management of sludge from pits, ponds, sumps, and water conveyances	X				
Aerosol Cans	X				
Calibration of analytical equipment	X	X	X		X
Carbon can replacement	X				
Catalyst charging/handling				X	
Instrumentation/analyzer maintenance	X				
Meter proving	X				
Replacement of analyzer filters and screens	X				
Maintenance on water treatment systems (cooling, boiler, potable)	X				
Soap and other aqueous based cleaners	X				
Cleaning sight glasses	X				
Draining of Low Vapor Pressure Materials to the Process Sewer	X				
Sampling and Sample System Purging	X				
Pigging	X				
Water washing empty drums or totes	X				
PE6CATFLT Catalyst filter				X	
PE7CATFLT Catalyst filter				X	
PE8CATFLT Catalyst filter				X	
FLTCOMSS Filter element changeout				X	

Dated December 19, 2013

ATTACHMENT B

Permit Numbers 4437A, PSDTX808, and N014M2

Routine Maintenance Activities

Pump repair/replacement  
Fugitive component (valve, pipe, flange) repair/replacement  
Compressor repair/replacement  
Heat exchanger repair/replacement  
Vessel repair/replacement

Dated December 19, 2013

ATTACHMENT C

Permit Numbers 4437A, PSDTX808, and No14M2

MSS Activity Summary

Facility ID	Facility Description	Emission activity	EPN
PE6/7 MSS Flaring	Miscellaneous MSS streams from polyethylene process areas. Includes reactors, compressors, pumps, filters, pipelines, columns, flash tanks, and PSVs.	flaring	216, 308, 408
PE8 MSS Flaring	Miscellaneous MSS streams from polyethylene process areas. Includes reactors, compressors, pumps, filters, pipelines, columns, flash tanks, and PSVs.	flaring	216, 308, 408
Equipment openings	Opening of equipment to atmosphere following purging to flare down to acceptable concentration. Includes reactors, compressors, pumps, flash tanks, vessels, columns, filters, pipelines, and PSVs.	Purged to flare and opened to atmosphere	PEPPMSSATM
Truck loading fugitives	loading and disposing of wastes associated with maintenance activities	to atmosphere	PEPPMSSLD

Dated April 14, 2014

ATTACHMENT D

Permit Number Permit Numbers 4437A, PSDTX808, and N014M2

Excerpt from  
Consent Agreement and Final Order  
Docket No. CAA 06-2012-3321



## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 4437A, PSDTX808, and N014M2

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)
1000	Catalytic Activator 1 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
83	Catalytic Activator 2 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
86	Catalytic Activator 3 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
146	Catalytic Activator 4 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---
170	Catalytic Activator 5 Main Burner	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
		SO2	<0.01	---
		NOx	0.67	---
		CO	0.56	---
		VOC	0.04	---

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1000, 83, 86, 146, and 170	Catalytic Activator Burners 1-5	PM	---	0.94
		PM10	---	0.94
		PM2.5	---	0.94
		SO2	---	0.07
		NOx	---	12.34
		CO	---	10.37
		VOC	---	0.68
1001	Catalytic Activator 1 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1002	Catalytic Activator 2 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1003	Catalytic Activator 5 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
1003A	Catalytic Activator 3 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		CO	5.17	---
		VOC	1.43	---
1003B	Catalytic Activator 4 HEPA Filter Vent	PM	<0.01	---
		PM10	<0.01	---
		PM2.5	<0.01	---
		SO2	0.28	---
		CO	5.17	---
		VOC	1.43	---
1001, 1002, 1003, 1003A, & 1003B	Catalytic Activators 1, 2, 3, 4, 5 HEPA Filter Vent	PM	---	<0.01
		PM10	---	<0.01
		PM2.5	---	<0.01
		SO2	---	0.19
		CO	---	4.73
		VOC	---	5.47
1004	Catalytic Activator Quench Station Vent (6)	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	<0.01
1005	Catalytic Activator Raw Catalyst Charging Bldg Vent	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<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)
1006	Catalytic Activator Drum Loading Enclosure Vent	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	0.01
1007	Catalytic Activator Fugitive Emissions	PM	<0.01	<0.01
		PM10	<0.01	<0.01
		PM2.5	<0.01	<0.01
123, 124, 125, & 126	Ponds No. 1, 2, 3, & 4	VOC	0.79	2.03
20	Administrative Complex Emergency Generator	PM	0.78	0.04
		PM10	0.78	0.04
		PM2.5	0.78	0.04
		SO2	0.80	0.04
		NOx	12.09	0.61
		CO	2.60	0.13
		VOC	0.96	0.05
201	Flash Tank Cleanout	VOC	1.15	---
250	Flash Tank Cleanout	VOC	1.15	---
201 & 250	Flash Tank Cleanout	VOC	---	0.15
206	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
252	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
206 & 252	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08
		PM2.5	---	0.08
		VOC	---	0.03
207	Pellet Dryer	VOC	0.61	2.68
208	Blend Tanks	PM	0.05	0.20
		PM10	0.05	0.20
		PM2.5	0.05	0.20
209	Off-Spec Tank	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
255	Off-Spec Tank	PM	0.05	---
		PM10	0.05	---
		PM2.5	0.05	---
209 & 255	Off-Spec Tanks	PM	---	0.20
		PM10	---	0.20
		PM2.5	---	0.20

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
210	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30
		PM10	0.07	0.30
		PM2.5	0.07	0.30
217 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08
		PM10	0.02	0.08
		PM2.5	0.02	0.08
		VOC	2.85	12.5
219	Pellet Loadout Filter	PM	0.02	0.10
		PM10	0.02	0.10
		PM2.5	0.02	0.10
PE6-Pellet	P6 Pellet Loss	VOC	10.45	45.76
253	Pellet Dryer	VOC	0.61	2.68
254	Blend Tanks	PM	0.05	0.20
		PM10	0.05	0.20
		PM2.5	0.05	0.20
256	PE 6 Analyzer Vents	VOC	0.03	0.11
		NOx	<0.01	0.01
		CO	<0.01	0.01
257	Pellet Storage Tanks/Cyclone Vents	PM	0.07	0.30
		PM10	0.07	0.30
		PM2.5	0.07	0.30
259	PE6 Piping Fugitives (5)	VOC	11.07	48.47
260	Plant 6 Cooling Tower	VOC	1.18	3.86

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
261 A,B	Extruder Feed Tank & Cont Bleeder Vent	PM	0.02	0.08
		PM10	0.02	0.08
		PM2.5	0.02	0.08
		VOC	2.85	12.50
27	Water Well Number 5 Engine	PM	0.03	0.01
		PM10	0.03	0.01
		PM2.5	0.03	0.01
		SO2	<0.01	<0.01
		NOx	0.27	0.12
		CO	0.40	0.18
		VOC	0.05	0.02
300	Flash Tank Cleanout	VOC	1.15	---
350	Flash Tank Cleanout	VOC	1.15	---
300 & 350	Flash Tanks Cleanout	VOC	---	0.15
302	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
352	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
302 & 352	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08
		PM2.5	---	0.08
		VOC	---	0.03
303	Pellet Dryer	VOC	0.51	2.21
304	Pellet Blending & Storage	PM	0.20	0.33
		PM10	0.20	0.33
		PM2.5	0.20	0.33
305	Pellet Loadout Bag Filter	PM	0.02	0.10
		PM10	0.02	0.10
		PM2.5	0.02	0.10
305A	Pelletron Deduster	PM	0.09	0.38
		PM10	0.09	0.38
		PM2.5	0.09	0.38
306	PE7 Piping Fugitives (5)	VOC	18.52	80.95
307	Plant 7 Cooling Tower	VOC	1.74	4.58
311	Fluff Hopper Car Dust Bag Filter	PM	0.04	0.10
		PM10	0.04	0.10
		PM2.5	0.04	0.10
		VOC	0.29	1.28
312	Pellet Hopper Car Loading Filter	PM	0.03	0.12
		PM10	0.03	0.12
		PM2.5	0.03	0.12

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
313	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05
		PM10	0.01	0.05
		PM2.5	0.01	0.05
		VOC	2.85	12.50
PE7-PELLET	P7 Pellet Loss	VOC	10.45	45.76
353	Pellet Dryer	VOC	0.51	2.21
354	Blend Tanks	PM	0.20	0.33
		PM10	0.20	0.33
		PM2.5	0.20	0.33
355	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.01	0.05
		PM10	0.01	0.05
		PM2.5	0.01	0.05
		VOC	2.85	12.50
356	PE 7 Analyzer Vents	VOC	0.03	0.10
		NOx	<0.01	<0.01
		CO	<0.01	0.01
400	Flash Tank Cleanout	VOC	1.15	---
450	Flash Tank Cleanout	VOC	1.15	---
400 & 450	Flash Tanks Cleanout	VOC	---	0.15
402	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
402	Powder Additive Tank	VOC	0.04	---

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
452	Powder Additive Tank	PM	0.07	---
		PM10	0.07	---
		PM2.5	0.07	---
		VOC	0.04	---
402 & 452	Powder Additive Tanks	PM	---	0.08
		PM10	---	0.08
		PM2.5	---	0.08
		VOC	---	0.03
403	Pellet Dryer	VOC	1.82	7.97
404	Pellet Blending & Storage/Cyclone	PM	0.03	0.09
		PM10	0.03	0.09
		PM2.5	0.03	0.09
405	Pellet Loadout Bag Filter	PM	0.01	0.02
		PM10	0.01	0.02
		PM2.5	0.01	0.02
406	PE8 Piping Fugitives (5)	VOC	15.02	66.01
407	Plant 8 Cooling Tower	VOC	1.58	4.14
413	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32
		PM10	0.07	0.32
		PM2.5	0.07	0.32
		VOC	2.85	12.49

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
414	Pellet Transfer Hopper	PM	0.01	0.03
		PM10	0.01	0.03
		PM2.5	0.01	0.03
PE8-PELLET	PE 8 Pellet Loss	VOC	16.05	70.28
453	Pellet Dryer	VOC	1.82	7.97
454	Blend Tanks	PM	0.03	0.09
		PM10	0.03	0.09
		PM2.5	0.03	0.09
455	Extruder Feed Tank & Cont. Bleeder Vent	PM	0.07	0.32
		PM10	0.07	0.32
		PM2.5	0.07	0.32
		VOC	2.85	12.49
456	PE 8 Analyzer Vents	VOC	0.34	0.47
		NOx	<0.01	<0.01
		CO	0.01	<0.01
65	Underground Gas Tank	VOC	8.33	0.04
65.2	Diesel Tank	VOC	0.26	0.01
900	HC Storage Fugitives (5)	VOC	0.31	1.33
901	HC Storage Fugitives (5)	VOC	1.89	8.27

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
308 (7)	PE 6/7 Flare	NO <sub>x</sub>	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO <sub>2</sub>	0.22	---
408 (7)	PE 8 Flare	NO <sub>x</sub>	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO <sub>2</sub>	0.22	---
216 (7)	PE Flare	NO <sub>x</sub>	46.99	---
		CO	402.90	---
		VOC	172.05	---
		SO <sub>2</sub>	0.22	---
308, 408, and 216 (7), (8)	All Flares Routine Emissions (CO, SO <sub>2</sub> , and NO <sub>x</sub> limits include both routine and MSS)	NO <sub>x</sub>	46.99	53.00
		CO	402.90	460.00
		VOC	172.05	184.80
		SO <sub>2</sub>	0.22	0.34
308, 408, and 216 (7), (8)	All Flares MSS Emissions	VOC	172.58	11.40
201, 206, 216 (7), 217A, 217B, 250, 252, 259, 261A, 261B, 300, 302, 306, 308 (7), 311, 313, 350, 352, 355, 400, 402, 406, 408 (7), 413, 450, 452, 455, 901, PE6-PELLET, PE7-PELLET, PE8-PELLET	Hexene Cap	Hexene	21.95	64.29

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
MSSCAP	MSS Cap (EPNs 8, 10, 902, 903, DEG-1, 2, 3, 4, 6, PEPPMSSATM, PEPPMSSLD), AEROSOL, MISC MSS, FLT COMSS, PE6CFMSS, PE7CFMSS, PE8CFMSS	VOC	67.96	12.14
		PM	9.54	2.26
		PM <sub>10</sub>	8.03	1.35
		PM <sub>2.5</sub>	8.03	1.35

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emergency use only.
- (7) Emission limits for the PE Flare (EPN 216), the PE 6/7 Flare (EPN 308), and the PE 8 Flare (EPN 408) include routine and off-gas operation. Flare emissions are based on total flow rate and composition of all process vents.
- (8) Combined emission limits designated as "All Flares" shall not be exceeded no matter how many flares are in operation.

Date: November 20, 2015