

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Chevron Phillips Chemical Company, LP

AUTHORIZING THE OPERATION OF

Polyethylene Unit (PEU 1792)

Industrial Organic Chemicals

LOCATED AT

Harris County, Texas

Latitude 29° 49' 51" Longitude 094° 54' 46"

Regulated Entity Number: RN103919817

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:   O2115   Issuance Date:   November 17, 2009  

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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 and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §§ 113.890 and 113.1090, respectively, which incorporates the 40 CFR Part 63 Subpart by reference.
- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
  - (v) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (vi) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
  - (i) Title 30 TAC § 101.352 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)

- (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.358 (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
- H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
  - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)
  - (v) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
  - (vi) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
- I. 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) 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) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For 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. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
  - A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
  - B. Title 30 TAC § 115.145 (relating to Approved Test Methods)
  - C. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
  - D. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less
  - E. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
6. 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)
7. 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.
8. 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).
9. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
  - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)

- C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
  - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
  - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
  - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
  - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
  - H. Title 40 CFR § 61.15 (relating to Modification)
  - I. Title 40 CFR § 61.19 (relating to Circumvention)
10. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.342(c)(1)(i) - (iii) (relating to Standards: General)
  - B. Title 40 CFR § 61.342(c)(2) (relating to Standards: General)
  - C. For exempting waste streams:
    - (i) Title 40 CFR § 61.342(c)(3)(ii)(A) - (C) (relating to Standards: General)
  - D. Title 40 CFR § 61.342(f)(1), and (2) (relating to Standards: General)
  - E. Title 40 CFR § 61.342(g) (relating to Standards: General)
  - F. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
  - G. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions)
  - H. Title 40 CFR § 61.355(j) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
  - I. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
  - J. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
  - K. Title 40 CFR § 61.356(b)(2)(i) - (ii) (relating to Recordkeeping Requirements)

- L. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
  - M. Title 40 CFR § 61.356(c) (relating to Recordkeeping Requirements)
  - N. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
  - O. Title 40 CFR § 61.357(d)(3) (relating to Reporting Requirements)
11. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.345(a)(1) - (3), (b), and (c) (relating to Standards: Containers)
  - B. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
  - C. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
  - D. Title 40 CFR § 61.356(h) (relating to Recordkeeping 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).

### **Additional Monitoring Requirements**

15. 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**

16. 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
17. 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.
18. 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, material safety data sheets (MSDS), 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.
  - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
  - B. 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

19. 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.
20. 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.
21. 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
- 22. 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

### **Risk Management Plan**

- 23. 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**

24. 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. 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.

## **Permit Location**

25. 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)**

26. 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**

## **Applicable Requirements Summary**

**Unit Summary ..... 18**

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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 (§ 122.144), Reporting Terms and Conditions (§ 122.145), and Compliance Certification Terms and Conditions (§ 122.146) continue to apply.

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units  | SOP Index No. | Regulation                               | Requirement Driver      |
|-------------------------------|---|---|---------------|--|-------------------------|
| Fo4                           | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A   | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP1792VNT-1                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-21, 1792-22,<br>1792-23, 25, F05,<br>V-310, V-311, V-<br>312, V-313, V-314,<br>V-315, V-316, V-<br>317, V-318, V-319,<br>V-320, V-321, V-<br>322, V-323, V-324,<br>V-325, V-326, V-<br>327, V-328, V-329,<br>V-330, V-331, V-<br>332, V-333, V-334,<br>V-335, V-336, V-<br>337, V-338, V-339,<br>V-340, V-341, V-<br>342, V-343, V-344,<br>V-345, V-346, V-<br>347, V-348, V-349 | R1111-01      | 30 TAC Chapter 111,<br>Visible Emissions | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units  | SOP Index No. | Regulation                               | Requirement Driver      |
|-------------------------------|---|---|---------------|--|-------------------------|
| GRP1792VNT-1                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-21, 1792-22,<br>1792-23, 25, F05,<br>V-310, V-311, V-<br>312, V-313, V-314,<br>V-315, V-316, V-<br>317, V-318, V-319,<br>V-320, V-321, V-<br>322, V-323, V-324,<br>V-325, V-326, V-<br>327, V-328, V-329,<br>V-330, V-331, V-<br>332, V-333, V-334,<br>V-335, V-336, V-<br>337, V-338, V-339,<br>V-340, V-341, V-<br>342, V-343, V-344,<br>V-345, V-346, V-<br>347, V-348, V-349 | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP1792VNT-2                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-15, 1792-16,<br>1792-17, 1792-18,<br>1792-4C, 1792-4F,<br>1792-4G, 1792-4H,<br>1792-4J, V-383, V-<br>384   | R1111-02      | 30 TAC Chapter 111,<br>Visible Emissions | No changing attributes. |
| GRP1792VNT-2                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-15, 1792-16,<br>1792-17, 1792-18,<br>1792-4C, 1792-4F,<br>1792-4G, 1792-4H,<br>1792-4J, V-383, V-<br>384   | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units  | SOP Index No. | Regulation                               | Requirement Driver      |
|-------------------------------|---|---|---------------|--|-------------------------|
| GRP1792VNT-3                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-4B, 45, B-<br>112, B-113, B-114,<br>B-1506, B-1606,<br>D-104B                        | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP1792VNT-4                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | 1792-4D, 1792-4K,<br>B-3006, S-302, S-<br>304, S-314, S-317,<br>V-3001, V-3002,<br>V-3013 | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| P-930                         | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A   | R1111-02      | 30 TAC Chapter 111,<br>Visible Emissions | No changing attributes. |
| U905                          | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A   | R1111-02      | 30 TAC Chapter 111,<br>Visible Emissions | No changing attributes. |
| X-901-VNT                     | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A   | R5722-01      | 30 TAC Chapter 115,<br>HRVOC Vent Gas    | No changing attributes. |
| X-901-VNT                     | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A   | R5121-01      | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units | SOP Index No. | Regulation                               | Requirement Driver   |
|-------------------------------|---|--------------------------|---------------|--|--|
| X-901-VNT                     | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS<br>VENTS | N/A                      | 63FFFF-01     | 40 CFR Part 63, Subpart<br>FFFF          | No changing attributes.  |
| X-901                         | FLARES  | N/A                      | R1111-01      | 30 TAC Chapter 111,<br>Visible Emissions | No changing attributes.  |
| X-901                         | FLARES  | N/A                      | R5722-01      | 30 TAC Chapter 115,<br>HRVOC Vent Gas    | No changing attributes.  |
| X-901                         | FLARES  | N/A                      | 63A-01        | 40 CFR Part 63, Subpart<br>A             | FLARE EXIT VELOCITY = Flare<br>exit velocity is less than 60 ft/s<br>(18.3 m/sec), HEATING VALUE<br>OF GAS = Heating value is less<br>than or equal to 1000 Btu/scf<br>(37.3 MJ/scm).  |
| X-901                         | FLARES  | N/A                      | 63A-02        | 40 CFR Part 63, Subpart<br>A             | FLARE EXIT VELOCITY = Flare<br>exit velocity is greater than or<br>equal to 60 ft/s (18.3 m/sec) but<br>less than 400 ft/s (122 m/sec).,<br>HEATING VALUE OF GAS =<br>Heating value is less than or<br>equal to 1000 Btu/scf (37.3<br>MJ/scm). |

## Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type                         | Group/Inclusive<br>Units           | SOP Index No. | Regulation   | Requirement Driver   |
|-------------------------------|-----------------------------------|------------------------------------|---------------|--|--|
| X-901                         | FLARES                            | N/A                                | 63A-03        | 40 CFR Part 63, Subpart A                          | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm). |
| F-75                          | FUGITIVE EMISSION UNITS           | N/A                                | R5781         | 30 TAC Chapter 115, HRVOC Fugitive Emissions       | No changing attributes.  |
| F-75                          | FUGITIVE EMISSION UNITS           | N/A                                | R5352-ALL     | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes.  |
| F-75                          | FUGITIVE EMISSION UNITS           | N/A                                | 63FFFF-01     | 40 CFR Part 63, Subpart FFFF                       | No changing attributes.  |
| E-501/502                     | INDUSTRIAL PROCESS COOLING TOWERS | N/A                                | R5760         | 30 TAC Chapter 115, HRVOC Cooling Towers           | No changing attributes.  |
| LL03                          | LOADING/UNLOADING OPERATIONS      | N/A                                | R5100-01      | 30 TAC Chapter 115, Loading and Unloading of VOC   | No changing attributes.  |
| H-602                         | PROCESS HEATERS/FURNACES          | N/A                                | R7310-02      | 30 TAC Chapter 117, Subchapter B                   | No changing attributes.  |
| GRPPEUDG1                     | SOLVENT DEGREASING MACHINES       | LAPROOMDG1, MECHSHOPDG, PEUSHOPDG1 | R5412-01      | 30 TAC Chapter 115, Degreasing Processes           | No changing attributes.  |

## Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type                         | Group/Inclusive<br>Units  | SOP Index No. | Regulation                                  | Requirement Driver      |
|-------------------------------|-----------------------------------|---------------------------|---------------|---|-------------------------|
| GRPPEUDG2                     | SOLVENT<br>DEGREASING<br>MACHINES | LAPROOMDG2,<br>PEUSHOPDG2 | R5412-01      | 30 TAC Chapter 115,<br>Degreasing Processes | No changing attributes. |
| P-930                         | SRIC ENGINES                      | N/A                       | R7303-01      | 30 TAC Chapter 117,<br>Subchapter B         | No changing attributes. |
| P-930                         | SRIC ENGINES                      | N/A                       | 63ZZZZ-1      | 40 CFR Part 63, Subpart<br>ZZZZ             | No changing attributes. |
| U905                          | SRIC ENGINES                      | N/A                       | R7303-01      | 30 TAC Chapter 117,<br>Subchapter B         | No changing attributes. |
| U905                          | SRIC ENGINES                      | N/A                       | 63ZZZZ-1      | 40 CFR Part 63, Subpart<br>ZZZZ             | No changing attributes. |
| TK-401                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5111         | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |
| TK-402                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5111         | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |
| TK-405                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5112-01      | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |
| TK-902                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5111         | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |
| TK-903                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5111         | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |
| TK-904                        | STORAGE<br>TANKS/VESSELS          | N/A                       | R5111         | 30 TAC Chapter 115,<br>Storage of VOCs      | No changing attributes. |

### Unit Summary

| <b>Unit/Group/<br/>Process ID No.</b> | <b>Unit Type</b>                                 | <b>Group/Inclusive<br/>Units</b> | <b>SOP Index No.</b> | <b>Regulation</b>                       | <b>Requirement Driver</b> |
|---------------------------------------|--|----------------------------------|----------------------|---|---------------------------|
| V-912                                 | STORAGE<br>TANKS/VESSELS                         | N/A                              | R5111                | 30 TAC Chapter 115,<br>Storage of VOCs  | No changing attributes.   |
| G-214                                 | VOLATILE ORGANIC<br>COMPOUND WATER<br>SEPARATORS | N/A                              | R5131-01             | 30 TAC Chapter 115,<br>Water Separation | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| Fo4                       | EP                      | R5121-01      | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(1)<br>[G]§ 115.122(a)(4)                             | A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams. | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(A)             | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(A) | None                                      |
| GRP1792VN T-1             | EP                      | R1111-01      | OPACITY   | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(A)<br>§ 111.111(a)(1)(E)                          | Visible emissions from any stationary vent shall not exceed an opacity of 30% averaged over a six minute period.  | [G]§ 111.111(a)(1)(F)<br>** See Periodic Monitoring Summary | None   | None                                      |
| GRP1792VN T-1             | EP                      | R5121-01      | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(1)<br>[G]§ 115.122(a)(4)                             | A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams. | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(A)             | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(A) | None                                      |
| GRP1792VN T-2             | EP                      | R1111-02      | OPACITY   | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 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)<br>** See Periodic Monitoring Summary | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| GRP1792VN T-2             | EP                      | R5121-01      | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(1)<br>[G]§ 115.122(a)(4)                             | A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams. | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(A)             | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(A) | None                                      |
| GRP1792VN T-3             | EP                      | R5121-01      | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(1)<br>[G]§ 115.122(a)(4)                             | A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams. | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(A)             | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(A) | None                                      |
| GRP1792VN T-4             | EP                      | R5121-01      | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(1)<br>[G]§ 115.122(a)(4)                             | A vent gas stream from a LDPE plant is exempt from §115.121(a)(1) if less than or equal to 1.1 pounds of ethylene per 1,000 pounds (1.1 kg/1000 kg) of product are emitted from all the specified vent gas streams. | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(A)             | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(A) | None                                      |
| P-930                     | EP                      | R1111-02      | OPACITY   | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 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)<br>** See Periodic Monitoring Summary | 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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|--|---|
| U905                      | EP                      | R1111-02      | OPACITY             | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B)<br>§ 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)<br>** See Periodic Monitoring Summary  | None   | None  |
| X-901-VNT                 | EP                      | R5722-01      | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas    | § 115.722(c)(1)<br>§ 115.722(c)(3)<br>§ 115.722(d)<br>§ 115.722(d)(1)<br>§ 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)<br>§ 115.726(d)(2)<br>§ 115.726(d)(3)<br>§ 115.726(d)(4)<br>[G]§ 115.726(g)<br>[G]§ 115.726(h)<br>§ 115.726(i)<br>§ 115.726(j)(1)<br>§ 115.726(j)(2) | § 115.725(n)  |
| X-901-VNT                 | EP                      | R5121-01      | VOC                 | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(1)<br>§ 115.122(a)(1)<br>§ 115.122(a)(1)(B)<br>§ 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<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)  | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)   | None  |
| X-901-VNT                 | EP                      | 63FFFF-01     | 112(B) HAPS         | 40 CFR Part 63, Subpart FFFF          | § 63.2455(a)<br>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 |

## 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)                |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|--|
| X-901                     | EU                      | R1111-01      | OPACITY             | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A)  | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).                  | § 111.111(a)(4)(A)(i)<br>§ 111.111(a)(4)(A)(ii)  | § 111.111(a)(4)(A)(ii)  | None   |
| X-901                     | EP                      | R5722-01      | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas    | § 115.722(d)<br>§ 115.722(d)(1)<br>§ 115.722(d)(2)<br>[G]§ 115.725(d)(1)<br>§ 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)<br>§ 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)<br>§ 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)<br>§ 115.725(d)(2)(B)(iv)<br>[G]§ 115.725(l)<br>§ 115.725(m)(2)(A)<br>§ 115.725(m)(2)(B)<br>[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)<br>§ 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)<br>§ 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)<br>§ 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)<br>§ 115.725(d)(2)(B)(iv)<br>§ 115.725(d)(3)<br>§ 115.725(d)(4)<br>§ 115.725(d)(5)<br>§ 115.725(d)(6)<br>§ 115.725(d)(7)<br>§ 115.725(k)(1)<br>[G]§ 115.725(l)<br>§ 115.725(m)(1)<br>§ 115.725(m)(2)(A)<br>§ 115.725(m)(2)(B)<br>§ 115.725(n) | § 115.726(a)(1)<br>§ 115.726(a)(1)(A)<br>§ 115.726(d)(1)<br>§ 115.726(d)(10)<br>§ 115.726(d)(2)<br>§ 115.726(d)(3)<br>§ 115.726(d)(4)<br>§ 115.726(i)<br>§ 115.726(j)(1)<br>§ 115.726(j)(2) | § 115.725(n)<br>§ 115.726(a)(1)(B)<br>[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<br>(30 TAC § 122.144) | Reporting Requirements<br>(30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|--|--|--|
| X-901                     | CD                      | 63A-01        | OPACITY   | 40 CFR Part 63, Subpart A             | § 63.11(b)(4)<br>§ 63.11(b)(1)<br>§ 63.11(b)(2)<br>§ 63.11(b)(3)<br>§ 63.11(b)(5)<br>§ 63.11(b)(6)(ii)<br>§ 63.11(b)(7)(i)   | 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)<br>§ 63.11(b)(5)<br>§ 63.11(b)(7)(i) | None   | None   |
| X-901                     | CD                      | 63A-02        | OPACITY   | 40 CFR Part 63, Subpart A             | § 63.11(b)(4)<br>§ 63.11(b)(1)<br>§ 63.11(b)(2)<br>§ 63.11(b)(3)<br>§ 63.11(b)(5)<br>§ 63.11(b)(6)(ii)<br>§ 63.11(b)(7)(iii) | 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)<br>§ 63.11(b)(5)<br>§ 63.11(b)(7)(i) | None   | None   |
| X-901                     | CD                      | 63A-03        | OPACITY   | 40 CFR Part 63, Subpart A             | § 63.11(b)(4)<br>§ 63.11(b)(1)<br>§ 63.11(b)(2)<br>§ 63.11(b)(3)<br>§ 63.11(b)(5)<br>§ 63.11(b)(6)(ii)<br>§ 63.11(b)(7)(ii)  | 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)<br>§ 63.11(b)(5)<br>§ 63.11(b)(7)(i) | 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) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|---|
| F-75                      | EU                      | R5781         | 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)<br>§ 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)   |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|---|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.725(c)(1)<br>§ 115.725(c)(2)<br>[G]§ 115.725(c)(3)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv)<br>§ 115.787(e)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[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)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>[G]§ 115.725(c)(1)<br>§ 115.725(c)(2)<br>[G]§ 115.725(c)(3)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(b)(8)<br>§ 115.781(e)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f)<br>[G]§ 115.788(g) | § 115.725(c)(4)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[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<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)   |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|---|--|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(2)<br>§ 115.782(c)(2)(A)<br>§ 115.782(c)(2)(A)(i)<br>§ 115.782(c)(2)(A)(ii)<br>§ 115.782(c)(2)(B)<br>§ 115.783(5)<br>§ 115.787(f)<br>§ 115.787(f)(2)<br>§ 115.787(f)(3)<br>§ 115.787(f)(4)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(3)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(f)<br>§ 115.781(f)(1)<br>§ 115.781(f)(2)<br>§ 115.781(f)(3)<br>§ 115.781(f)(4)<br>§ 115.781(f)(5)<br>§ 115.781(f)(6)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.789(1)(B) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f)<br>[G]§ 115.788(g) | § 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[G]§ 115.788(g)<br>§ 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<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|---|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>[G]§ 115.781(d)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(2)<br>§ 115.782(c)(2)(A)<br>§<br>115.782(c)(2)(A)(i)<br>§<br>115.782(c)(2)(A)(ii)<br>§ 115.782(c)(2)(B)<br>§ 115.783(1)<br>§ 115.783(1)(A)<br>§ 115.783(1)(B)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§<br>115.788(a)(2)(C)(i)<br>§<br>115.788(a)(2)(C)(ii)<br>§<br>115.788(a)(2)(C)(iii)<br>)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[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)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>[G]§ 115.781(d)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.786(a)(1) | § 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.786(a)(1)<br>§ 115.786(a)(2)<br>§ 115.786(a)(2)(A)<br>§ 115.786(a)(2)(B)<br>§ 115.786(b)(1)<br>§ 115.786(b)(2)<br>§ 115.786(b)(2)(A)<br>§ 115.786(b)(2)(B)<br>§ 115.786(b)(2)(C)<br>§ 115.786(b)(3)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f)<br>[G]§ 115.788(g) | § 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[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<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|---|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(2)<br>§ 115.782(c)(2)(A)<br>§ 115.782(c)(2)(A)(i)<br>§ 115.782(c)(2)(A)(ii)<br>§ 115.782(c)(2)(B)<br>§ 115.783(5)<br>§ 115.787(f)<br>§ 115.787(f)(4)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f)<br>[G]§ 115.788(g) | § 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)                |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>§ 115.782(c)(1)(B)(iii)<br>§ 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)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(f)<br>§ 115.781(f)(1)<br>§ 115.781(f)(2)<br>§ 115.781(f)(3)<br>§ 115.781(f)(4)<br>§ 115.781(f)(5)<br>§ 115.781(f)(6)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.789(1)(B) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f) | § 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)                |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|--|--|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§<br>115.782(c)(1)(B)(i)<br>§<br>115.782(c)(1)(B)(ii)<br>§<br>115.782(c)(1)(B)(iii)<br>§<br>115.782(c)(1)(B)(iv)<br>§<br>115.782(c)(1)(C)(i)<br>§<br>115.782(c)(1)(C)(i)(I)<br>§<br>115.782(c)(1)(C)(i)(II)<br>§<br>115.782(c)(1)(C)(i)(III)<br>§<br>115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(B)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(c)(1)<br>§ 115.781(c)(2)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f) | § 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)                |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|--|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§<br>115.782(c)(1)(B)(i)<br>§<br>115.782(c)(1)(B)(ii)<br>§<br>115.782(c)(1)(B)(iii)<br>§<br>115.782(c)(1)(B)(iv)<br>§<br>115.782(c)(1)(C)(i)<br>§<br>115.782(c)(1)(C)(i)(I)<br>§<br>115.782(c)(1)(C)(i)(II)<br>§<br>115.782(c)(1)(C)(i)(III)<br>§<br>115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(B)<br>§ 115.787(b)<br>§ 115.787(b)(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(c)(1)<br>§ 115.781(c)(2)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2) | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f) | § 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[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<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)                |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|---|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§<br>115.782(c)(1)(B)(i)<br>§<br>115.782(c)(1)(B)(ii)<br>§<br>115.782(c)(1)(B)(iii)<br>§<br>115.782(c)(1)(B)(iv)<br>§<br>115.782(c)(1)(C)(i)<br>§<br>115.782(c)(1)(C)(i)(I)<br>§<br>115.782(c)(1)(C)(i)(II)<br>§<br>115.782(c)(1)(C)(i)(III)<br>§<br>115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(B)<br>§ 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)<br>§ 115.781(b)(3)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(c)(1)<br>§ 115.781(c)(2)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2) | § 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f) | § 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[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)                   |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|---|---|
| F-75                      | EU                      | R5781         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions       | § 115.780(a)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>§ 115.782(c)(1)(B)(iii)<br>§ 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)<br>§ 115.781(b)(3)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(f)<br>§ 115.781(f)(1)<br>§ 115.781(f)(2)<br>§ 115.781(f)(3)<br>§ 115.781(f)(4)<br>§ 115.781(f)(5)<br>§ 115.781(f)(6)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.789(1)(B) | § 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(f) | § 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.789(1)(B) |
| F-75                      | EU                      | R5352-ALL     | VOC                 | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(7)<br>§ 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)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)   | None  |
| F-75                      | EU                      | R5352-ALL     | VOC                 | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355  | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.352(9)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.352(9)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4) | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4) | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | [G]§ 115.354(7)                           |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|--|--|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | [G]§ 115.354(7)                              |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(8)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4) | [G]§ 115.354(7)                              |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)   | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4) | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)                   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 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)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355                  | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 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)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 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)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(4)                  | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>[G]§ 115.352(2)(C)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 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)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|---|---|
| F-75                      | 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<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |
| F-75                      | 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<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |
| F-75                      | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2)<br>§ 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<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |
| F-75                      | 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<br>§ 115.356(3)<br>[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)   |
|---------------------------|-------------------------|---------------|-------------|--|---|--|--|---|---|
| F-75                      | 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<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None  |
| F-75                      | 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<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None  |
| F-75                      | EU                      | 63FFFF-01     | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF                       | § 63.2480(a)<br>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 |

## 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<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)                             |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|---|--|
| E-501/502                 | EU                      | R5760         | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Cooling Towers         | § 115.761(c)(1)<br>§ 115.761(c)(3)<br>§ 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(a)(3)<br>[G]§ 115.764(a)(6)<br>§ 115.764(c)   | § 115.766(a)(1)<br>§ 115.766(a)(2)<br>§ 115.766(a)(3)<br>§ 115.766(a)(5)<br>§ 115.766(a)(6)<br>§ 115.766(c)<br>[G]§ 115.766(e)<br>[G]§ 115.766(g)<br>[G]§ 115.766(h)<br>§ 115.766(i)(1) | § 115.766(i)(2)  |
| LLO3                      | EU                      | R5100-01      | VOC                 | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.213(b)<br>§ 115.212(a)(3)(B)<br>§ 115.212(a)(3)(E)<br>§ 115.213(b)(1)<br>§ 115.213(b)(4)<br>[G]§ 115.213(b)(6)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(D)<br>§ 115.214(a)(1)(D)(ii) | General loading - 90% overall control option in the covered non-attainment counties. As an alternative operations may elect to achieve a 90% overall control of emissions at the account.  | § 115.212(a)(3)(B)<br>§ 115.213(b)<br>§ 115.213(b)(1)<br>§ 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.215<br>§ 115.215(1)<br>§ 115.215(10)<br>[G]§ 115.215(2)<br>§ 115.215(4)<br>§ 115.215(9) | § 115.213(b)(1)<br>§ 115.216<br>§ 115.216(2)<br>§ 115.216(3)(A)<br>§ 115.216(3)(A)(i)<br>§ 115.216(3)(A)(ii)<br>§ 115.216(3)(A)(iii)<br>§ 115.216(3)(B)                                 | § 115.213(b)(1)<br>§ 115.213(b)(2)<br>§ 115.213(b)(3)<br>§ 115.213(b)(4) |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant       | State Rule or Federal Regulation Name    | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)                      | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-----------------|--|--|---|--|--|--|
| H-602                     | EU                      | R7310-02      | NO <sub>x</sub> | 30 TAC Chapter 117, Subchapter B         | § 117.310(d)(3)<br>§ 117.310(a)<br>§ 117.310(a)(8)(A)(ii)<br>§ 117.310(b)<br>[G]§ 117.310(e)(1)<br>§ 117.310(e)(2)<br>[G]§ 117.310(e)(3)<br>§ 117.310(e)(4)<br>§ 117.340(l)(2)<br>§ 117.340(p)(1)<br>§ 117.340(p)(2)(C)<br>§ 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)<br>§ 117.335(a)(4)<br>§ 117.335(b)<br>§ 117.335(d)<br>§ 117.335(e)<br>§ 117.335(g)<br>§ 117.340(a)<br>§ 117.340(l)(2)<br>§ 117.340(o)(1)<br>§ 117.340(p)(1)<br>§ 117.340(p)(2)(A)<br>§ 117.340(p)(2)(B)<br>§ 117.340(p)(2)(C) | § 117.345(a)<br>§ 117.345(f)<br>§ 117.345(f)(1)<br>§ 117.345(f)(9) | § 117.335(b)<br>§ 117.335(g)<br>§ 117.340(p)(2)(D)<br>[G]§ 117.345(b)<br>[G]§ 117.345(c) |
| H-602                     | EU                      | R7310-02      | CO              | 30 TAC Chapter 117, Subchapter B         | § 117.310(c)(1)<br>§ 117.310(c)(1)(B)<br>§ 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)<br>§ 117.335(a)(4)<br>§ 117.335(b)<br>§ 117.335(d)<br>§ 117.335(e)<br>§ 117.335(g)  | § 117.345(a)<br>§ 117.345(f)<br>§ 117.345(f)(9)                    | § 117.335(b)<br>§ 117.335(g)<br>[G]§ 117.345(b)<br>[G]§ 117.345(c)                       |
| GRPPEUDG<br>1             | EU                      | R5412-01      | VOC             | 30 TAC Chapter 115, Degreasing Processes | § 115.412(1)<br>[G]§ 115.412(1)(A)<br>§ 115.412(1)(C)<br>§ 115.412(1)(D)<br>[G]§ 115.412(1)(F)<br>§ 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)<br>§ 115.415(3)<br>** See Periodic Monitoring Summary  | 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)    |
|---------------------------|-------------------------|---------------|-------------|--|--|--|---|--|--|
| GRPPEUDG 2                | EU                      | R5412-01      | VOC         | 30 TAC Chapter 115, Degreasing Processes | § 115.412(1)<br>[G]§ 115.412(1)(A)<br>§ 115.412(1)(C)<br>§ 115.412(1)(E)<br>[G]§ 115.412(1)(F)<br>§ 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)<br>§ 115.415(3)<br>** See Periodic Monitoring Summary   | None   | None   |
| P-930                     | EU                      | R7303-01      | EXEMPT      | 30 TAC Chapter 117, Subchapter B         | [G]§ 117.303(a)(10)<br>[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 any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None  | § 117.340(j)<br>[G]§ 117.345(f)(10)<br>[G]§ 117.345(f)(6)  | None   |
| P-930                     | EU                      | 63ZZZZ-1      | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ             | § 63.6602-Table2c.1<br>§ 63.6595(a)(1)<br>§ 63.6605(a)<br>§ 63.6605(b)<br>§ 63.6625(e)<br>§ 63.6625(h)<br>§ 63.6625(i)<br>§ 63.6640(b)<br>[G]§ 63.6640(f)(1) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.  | § 63.6625(f)<br>§ 63.6625(i)<br>§ 63.6640(a)<br>§ 63.6640(a)-Table6.9.a.i<br>§ 63.6640(a)-Table6.9.a.ii<br>§ 63.6640(b) | § 63.6625(i)<br>§ 63.6655(a)<br>§ 63.6655(a)(1)<br>§ 63.6655(a)(2)<br>§ 63.6655(a)(4)<br>§ 63.6655(a)(5)<br>§ 63.6655(d)<br>§ 63.6655(e)<br>§ 63.6655(f)<br>§ 63.6660(a)<br>§ 63.6660(b)<br>§ 63.6660(c) | § 63.6640(b)<br>§ 63.6640(e)<br>§ 63.6650(f) |

## 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<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|--|---|--|--|
| U905                      | EU                      | R7303-01      | EXEMPT         | 30 TAC Chapter 117, Subchapter B      | [G]§ 117.303(a)(10)<br>[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 any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None  | § 117.340(j)<br>[G]§ 117.345(f)(10)<br>[G]§ 117.345(f)(6)  | None   |
| U905                      | EU                      | 63ZZZZ-1      | 112(B)<br>HAPS | 40 CFR Part 63, Subpart ZZZZ          | § 63.6602-Table2c.1<br>§ 63.6595(a)(1)<br>§ 63.6605(a)<br>§ 63.6605(b)<br>§ 63.6625(e)<br>§ 63.6625(h)<br>§ 63.6625(i)<br>§ 63.6640(b)<br>[G]§ 63.6640(f)(1) | For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.  | § 63.6625(f)<br>§ 63.6625(i)<br>§ 63.6640(a)<br>§ 63.6640(a)-Table6.9.a.i<br>§ 63.6640(a)-Table6.9.a.ii<br>§ 63.6640(b) | § 63.6625(i)<br>§ 63.6655(a)<br>§ 63.6655(a)(1)<br>§ 63.6655(a)(2)<br>§ 63.6655(a)(4)<br>§ 63.6655(a)(5)<br>§ 63.6655(d)<br>§ 63.6655(e)<br>§ 63.6655(f)<br>§ 63.6660(a)<br>§ 63.6660(b)<br>§ 63.6660(c) | § 63.6640(b)<br>§ 63.6640(e)<br>§ 63.6650(f) |

## 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|---|
| TK-401                    | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None  | § 115.118                                     | None                                      |
| TK-402                    | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None  | § 115.118                                     | None                                      |
| TK-405                    | EU                      | R5112-01      | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(a)(1)   | 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)<br>§ 115.116(a)(4)<br>§ 115.116(a)(5)<br>** See Periodic Monitoring Summary | § 115.116(a)(4)<br>§ 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|---|---|
| TK-902                    | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None                                | None  | None                                      |
| TK-903                    | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None                                | § 115.118                                     | None                                      |
| TK-904                    | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None                                | § 115.118                                     | 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<br>(30 TAC § 122.144)      | Reporting Requirements<br>(30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|--|
| V-912                     | EU                      | R5111         | EXEMPT    | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None   | § 115.118   | None   |
| G-214                     | EU                      | R5131-01      | VOC       | 30 TAC Chapter 115, Water Separation  | § 115.137(a)(2)<br>[G]§ 115.132(a)(4)                             | Any single or multiple compartment VOC water separator which separates materials having a true vapor pressure of VOC < .5 psia obtained from any equipment is exempt from §115.132(a).   | [G]§ 115.135(a)<br>§ 115.136(a)(1)<br>§ 115.136(a)(3)<br>§ 115.136(a)(4) | § 115.136(a)(1)<br>§ 115.136(a)(3)<br>§ 115.136(a)(4) | None   |

**Additional Monitoring Requirements**

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## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                   |
|--|-----------------------------------|
| ID No.: GRP1792VNT-1   |                                   |
| Control Device ID No.: N/A   | Control Device Type: N/A          |
| <b>Applicable Regulatory Requirement</b>   |                                   |
| Name: 30 TAC Chapter 111, Visible Emissions  | SOP Index No.: R1111-01           |
| Pollutant: OPACITY   | Main Standard: § 111.111(a)(1)(A) |
| <b>Monitoring Information</b>  |                                   |
| Indicator: Visible Emissions   |                                   |
| Minimum Frequency: once per quarter  |                                   |
| Averaging Period: n/a  |                                   |
| Deviation Limit: Visible emissions are observed. Opacity shall not exceed 30% averaged over a six-minute period  |                                   |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. 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. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. 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.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> |                                   |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                   |
|--|-----------------------------------|
| ID No.: GRP1792VNT-2   |                                   |
| Control Device ID No.: N/A   | Control Device Type: N/A          |
| <b>Applicable Regulatory Requirement</b>   |                                   |
| Name: 30 TAC Chapter 111, Visible Emissions  | SOP Index No.: R1111-02           |
| Pollutant: OPACITY   | Main Standard: § 111.111(a)(1)(B) |
| <b>Monitoring Information</b>  |                                   |
| Indicator: Visible Emissions   |                                   |
| Minimum Frequency: once per quarter  |                                   |
| Averaging Period: n/a  |                                   |
| Deviation Limit: Visible emissions are observed. Opacity shall not exceed 20% averaged over a six-minute period.   |                                   |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. 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. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. 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.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> |                                   |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>   |                             |
|---|-----------------------------|
| ID No.: GRPPEUDG1   |                             |
| 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.: R5412-01     |
| Pollutant: VOC  | Main Standard: § 115.412(1) |
| <b>Monitoring Information</b>   |                             |
| Indicator: Visual Inspection  |                             |
| Minimum Frequency: monthly  |                             |
| Averaging Period: n/a   |                             |
| Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of 115.412(1)(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.: GRPPEUDG2   |                             |
| 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.: R5412-01     |
| Pollutant: VOC  | Main Standard: § 115.412(1) |
| <b>Monitoring Information</b>   |                             |
| Indicator: Visual Inspection  |                             |
| Minimum Frequency: monthly  |                             |
| Averaging Period: n/a   |                             |
| Deviation Limit: Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of 115.412(1)(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.: P-930  |                                   |
| Control Device ID No.: N/A   | Control Device Type: N/A          |
| <b>Applicable Regulatory Requirement</b>   |                                   |
| Name: 30 TAC Chapter 111, Visible Emissions  | SOP Index No.: R1111-02           |
| Pollutant: OPACITY   | Main Standard: § 111.111(a)(1)(B) |
| <b>Monitoring Information</b>  |                                   |
| Indicator: Visible Emissions   |                                   |
| Minimum Frequency: once per quarter  |                                   |
| Averaging Period: n/a  |                                   |
| Deviation Limit: Visible emissions are observed. Opacity shall not exceed 20% averaged over a six-minute period  |                                   |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. 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. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. 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.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p> |                                   |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                |
|--|--------------------------------|
| ID No.: TK-405   |                                |
| 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.: R5112-01        |
| Pollutant: VOC   | Main Standard: § 115.112(a)(1) |
| <b>Monitoring Information</b>  |                                |
| Indicator: Record of Tank Construction Specifications  |                                |
| Minimum Frequency: n/a   |                                |
| Averaging Period: n/a  |                                |
| Deviation Limit: Not keeping record of tank construction specifications  |                                |
| <p>Periodic Monitoring Text: Keep a record of tank construction specifications (e.g. engineering drawings) that show a fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 centimeters) from the bottom or, when the tank is loaded from the side, a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.</p> |                                |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                |
|--|--------------------------------|
| ID No.: TK-405   |                                |
| 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.: R5112-01        |
| Pollutant: VOC   | Main Standard: § 115.112(a)(1) |
| <b>Monitoring Information</b>  |                                |
| Indicator: Structural Integrity of the Pipe  |                                |
| Minimum Frequency: Emptied and degassed  |                                |
| Averaging Period: n/a  |                                |
| Deviation Limit: Repairs not completed to fill pipe if structural integrity of the fill pipe is in question during inspection when the tank has been emptied and degassed.   |                                |
| Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed to ensure that it continues to meet the specifications in the above requirement. If the structural integrity of the fill pipe is in question, repairs shall be made before the storage vessel is refilled. It shall be considered and reported as a deviation if the repairs are not completed prior to refilling the storage vessel. |                                |

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                   |
|--|-----------------------------------|
| ID No.: U905   |                                   |
| Control Device ID No.: N/A   | Control Device Type: N/A          |
| <b>Applicable Regulatory Requirement</b>   |                                   |
| Name: 30 TAC Chapter 111, Visible Emissions  | SOP Index No.: R1111-02           |
| Pollutant: OPACITY   | Main Standard: § 111.111(a)(1)(B) |
| <b>Monitoring Information</b>  |                                   |
| Indicator: Visible Emissions   |                                   |
| Minimum Frequency: once per quarter  |                                   |
| Averaging Period: n/a  |                                   |
| Deviation Limit: Visible emissions are observed. Opacity shall not exceed 20% averaged over a six-minute period  |                                   |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. 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. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. 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.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</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      |                             |   |
| X-901              | N/A                        | 40 CFR Part 60, Subpart A   | Flare not used as a control device to comply with NSPS or NESHAP  |
| F-75               | N/A                        | 40 CFR Part 60, Subpart DDD | Date of construction is prior to 09/30/1987   |
| E-501/502          | N/A                        | 40 CFR Part 63, Subpart Q   | Cooling tower does not use any chromium based water treatment.  |
| G-218              | N/A                        | 40 CFR Part 63, Subpart QQ  | Not referenced by another subpart of 40 CFR 60, 61 or 63.   |
| G-219              | N/A                        | 40 CFR Part 63, Subpart QQ  | Not referenced by another subpart of 40 CFR 60, 61 or 63.   |
| G-221              | N/A                        | 40 CFR Part 63, Subpart QQ  | Not referenced by another subpart of 40 CFR 60, 61, or 63   |
| GRP1792R14         | R-101, R-102, R-103, R-104 | 40 CFR Part 60, Subpart III | Does not produce any of the chemicals listed in 60.617 as a product, co-product, by-product, or intermediate. |
| GRP1792R14         | R-101, R-102, R-103, R-104 | 40 CFR Part 60, Subpart RRR | Does not product any of the chemicals listed in 60.707 as a product, co-product, by-product, or intermediate  |
| GRP1792R56         | R-1502, R-1601             | 40 CFR Part 60, Subpart III | Does not produce any of the chemicals listed in 60.617 as a product, co-product, by-product, or intermediate  |

## 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 |                             |  |
| GRP1792R56         | R-1502, R-1601        | 40 CFR Part 60, Subpart RRR | Does not product any of the chemicals listed in 60.707 as a product, co-product, by-product, or intermediate |
| P-1792             | N/A                   | 40 CFR Part 60, Subpart DDD | Date of construction is prior to 09/30/87.   |
| TK-401             | N/A                   | 40 CFR Part 60, Subpart K   | Not constructed or modified between 06/11/1973 and 05/19/1978  |
| TK-401             | N/A                   | 40 CFR Part 60, Subpart Ka  | Capacity < 40,000 gallons  |
| TK-401             | N/A                   | 40 CFR Part 60, Subpart Kb  | Capacity < 19,800 gallons  |
| TK-401             | N/A                   | 40 CFR Part 61, Subpart Y   | Does not store benzene   |
| TK-401             | N/A                   | 40 CFR Part 63, Subpart OO  | Not referenced by another subpart of 40 CFR 60, 61, or 63  |
| TK-402             | N/A                   | 40 CFR Part 60, Subpart K   | Not constructed or modified between 06/11/1973 and 05/19/1978  |
| TK-402             | N/A                   | 40 CFR Part 60, Subpart Ka  | Capacity < 40,000 gallons  |
| TK-402             | N/A                   | 40 CFR Part 60, Subpart Kb  | Capacity < 19,800 gallons  |
| TK-402             | N/A                   | 40 CFR Part 60, Subpart Y   | Does not store benzene   |
| TK-402             | N/A                   | 40 CFR Part 63, Subpart OO  | Not referenced by another subpart of 40 CFR 60, 61, or 63  |
| TK-405             | N/A                   | 40 CFR Part 60, Subpart K   | Capacity < 40,000 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 |                            |   |
| TK-405             | N/A                   | 40 CFR Part 60, Subpart Ka | Capacity < 40,000 gallons                                     |
| TK-405             | N/A                   | 40 CFR Part 60, Subpart Kb | Capacity < 19,800 gallons                                     |
| TK-405             | N/A                   | 40 CFR Part 60, Subpart Y  | Does not store benzene  |
| TK-405             | N/A                   | 40 CFR Part 63, Subpart OO | Not referenced by another subpart in 40 CFR 60, 61, or 63     |
| TK-801             | N/A                   | 40 CFR Part 60, Subpart Kb | Does not have a design capacity > 19,800 gallons              |
| TK-902             | N/A                   | 40 CFR Part 60, Subpart K  | Not constructed or modified between 06/11/1973 and 05/19/1978 |
| TK-902             | N/A                   | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984 |
| TK-902             | N/A                   | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 07/23/1984                  |
| TK-902             | N/A                   | 40 CFR Part 61, Subpart Y  | Does not store benzene  |
| TK-902             | N/A                   | 40 CFR Part 63, Subpart OO | Not referenced by another subpart of 40 CFR 60, 61 or 63      |
| TK-903             | N/A                   | 40 CFR Part 60, Subpart K  | Not constructed or modified between 06/11/1973 and 05/19/1978 |
| TK-903             | N/A                   | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984 |

## 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 |                            |   |
| TK-903             | N/A                   | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 07/23/1984                                  |
| TK-903             | N/A                   | 40 CFR Part 61, Subpart Y  | Does not store benzene  |
| TK-903             | N/A                   | 40 CFR Part 63, Subpart OO | Not referenced by another subpart of 40 CFR 60, 61, or 63                     |
| TK-904             | N/A                   | 40 CFR Part 60, Subpart K  | Not constructed or modified between 06/11/1973 and 05/19/1978                 |
| TK-904             | N/A                   | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984                 |
| TK-904             | N/A                   | 40 CFR Part 60, Subpart Kb | Maximum true vapor pressure < 3.5 kPa and storage capacity > 151 cubic meters |
| TK-904             | N/A                   | 40 CFR Part 61, Subpart Y  | Does not store benzene  |
| TK-904             | N/A                   | 40 CFR Part 63, Subpart OO | Not referenced by another subpart of 40 CFR 60, 61, or 63                     |
| V-912              | N/A                   | 40 CFR Part 60, Subpart K  | Not constructed or modified between 06/11/1973 and 05/19/1978                 |
| V-912              | N/A                   | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984                 |
| V-912              | N/A                   | 40 CFR Part 60, Subpart Kb | Capacity < 75 cubic meters and true vapor pressure < 0.5 psia                 |

### 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 |                            |  |
| G-214              | N/A                   | 40 CFR Part 63, Subpart VV | Facility does not control air emissions from oil-water and organic-water separator for which another subpart of 40 CFR Part 60, 61 or 63 references. |

**New Source Review Authorization References**

**New Source Review Authorization References ..... 72**

**New Source Review Authorization References by Emission Unit..... 74**

## 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>Nonattainment (NA) Permits</b>   |                              |
|---|------------------------------|
| NA Permit No.: N224   | Issuance Date: 05/13/2016    |
| <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.: 135086   | Issuance Date: 05/13/2016    |
| Authorization No.: 2462C  | Issuance Date: 07/17/2013    |
| Authorization No.: 83791  | Issuance Date: 03/09/2016    |
| <b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>  |                              |
| Number: 106.122   | Version No./Date: 09/04/2000 |
| Number: 106.261   | Version No./Date: 03/14/1997 |
| Number: 106.261   | Version No./Date: 12/24/1998 |
| Number: 106.261   | Version No./Date: 11/01/2003 |
| Number: 106.262   | Version No./Date: 03/14/1997 |
| Number: 106.262   | Version No./Date: 12/24/1998 |
| Number: 106.262   | Version No./Date: 11/01/2003 |
| Number: 106.263   | Version No./Date: 11/01/2001 |
| Number: 106.393   | Version No./Date: 03/14/1997 |
| Number: 106.393   | Version No./Date: 09/04/2000 |
| Number: 106.452   | Version No./Date: 09/04/2000 |
| Number: 106.454   | Version No./Date: 07/08/1998 |
| Number: 106.454   | Version No./Date: 11/01/2001 |
| Number: 106.472   | Version No./Date: 03/14/1997 |
| Number: 106.472   | Version No./Date: 09/04/2000 |
| Number: 106.473   | Version No./Date: 03/14/1997 |
| Number: 106.476   | Version No./Date: 03/14/1997 |
| Number: 106.476   | Version No./Date: 09/04/2000 |
| Number: 106.478   | Version No./Date: 03/14/1997 |
| Number: 106.478   | Version No./Date: 09/04/2000 |

### **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.

|                 |                              |
|-----------------|------------------------------|
| Number: 106.511 | Version No./Date: 09/04/2000 |
| Number: 106.512 | Version No./Date: 09/04/2000 |
| Number: 106.532 | Version No./Date: 03/14/1997 |
| Number: 106.532 | Version No./Date: 09/04/2000 |

## New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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 |
|---------------------------|--|---------------------------------|
| 1792-15                   | F-394 FILTER VENT                        | 106.393/03/14/1997              |
| 1792-16                   | F-395 FILTER VENT                        | 106.393/03/14/1997              |
| 1792-17                   | F-396 FILTER VENT                        | 106.393/03/14/1997              |
| 1792-18                   | F-397 FILTER VENT                        | 106.393/03/14/1997              |
| 1792-21                   | F-312 FILTER VENT                        | 2462C                           |
| 1792-22                   | F-315 FILTER VENT                        | 2462C                           |
| 1792-23                   | F-320 FILTER VENT                        | 106.393/03/14/1997              |
| 1792-4B                   | H-3030 CATALYTIC INCINERATOR VENT HEADER | 2462C                           |
| 1792-4C                   | F-376 FILTER VENT                        | 2462C                           |
| 1792-4D                   | F-3010 FILTER VENT                       | 2462C                           |
| 1792-4F                   | F-365 FILTER VENT                        | 2462C, 106.393/09/04/2000       |
| 1792-4G                   | F-366 FILTER VENT                        | 2462C                           |
| 1792-4H                   | F-367 FILTER VENT                        | 2462C                           |
| 1792-4J                   | F-356 FILTER VENT                        | 2462C                           |
| 1792-4K                   | F-399 FILTER VENT                        | 2462C                           |
| 25                        | F-355 FILTER VENT                        | 106.393/09/04/2000              |
| 45                        | X-901 FLARE VENT HEADER                  | 2462C                           |
| B-112                     | R-101 PELLETT DRYER BLOWER               | 2462C                           |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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 |
|---------------------------|---|---------------------------------|
| B-113                     | R-102 PELLET DRYER BLOWER                 | 2462C                           |
| B-114                     | R-103 PELLET DRYER BLOWER                 | 2462C                           |
| B-1506                    | R-1502 PELLET DRYER BLOWER                | 2462C                           |
| B-1606                    | R-1601 PELLET DRYER BLOWER                | 2462C                           |
| B-3006                    | COMPOUNDER PELLET DRYER BLOWER            | 2462C                           |
| D-104B                    | R-104 PELLET DRYER BLOWER                 | 2462C                           |
| E-501/502                 | COOLING TOWER E501/502                    | 2462C                           |
| F04                       | PELLET FUGITIVES                          | 2462C                           |
| F05                       | PROCESS VESSEL VENT                       | 106.261/03/14/1997              |
| F-75                      | PROCESS FUGITIVES                         | 2462C, 106.261/11/01/2003       |
| G-214                     | API OIL/WATER SEPARATOR                   | 106.532/03/14/1997              |
| G-218                     | RINSE/STROM WATER IMPOUNDMENT             | 106.532/03/14/1997              |
| G-219                     | RINSE/STROM WATER IMPOUNDMENT             | 106.532/03/14/1997              |
| G-221                     | PROCESS WASTEWATER/STROMWATER IMPOUNDMENT | 106.472/03/14/1997              |
| H-602                     | HOT OIL HEATER                            | 2462C                           |
| LAPROOMDG1                | PARTS WASHER                              | 106.454/07/08/1998              |
| LAPROOMDG2                | PARTS WASHER                              | 106.454/07/08/1998              |
| LL03                      | SLOP OIL LOADING                          | 106.472/03/14/1997              |

## New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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                  |
|---------------------------|--|--|
| MECHSHOPDG                | PARTS WASHER                                     | 106.454/07/08/1998                               |
| P-1792                    | POLYETHYLENE UNIT PEU 1792 MANUFACTURING PROCESS | 2462C  |
| P-930                     | STORM WATER PUMP ENGINE                          | 2462C  |
| PEUSHOPDG1                | PARTS WASHER                                     | 106.454/07/08/1998                               |
| PEUSHOPDG2                | PARTS WASHER                                     | 106.454/07/08/1998                               |
| PORTTANK                  | SEPARATOR SLOP OIL TANK                          | 106.478/03/14/1997                               |
| R-101                     | REACTOR  | 2462C  |
| R-102                     | REACTOR  | 2462C  |
| R-103                     | REACTOR  | 2462C  |
| R-104                     | REACTOR  | 2462C  |
| R-1502                    | REACTOR  | 2462C  |
| R-1601                    | REACTOR  | 2462C  |
| S-302                     | M-301 BLENDER CYCLONE VENT                       | 2462C  |
| S-304                     | V-355 SILO CYCLONE VENT                          | 2462C  |
| S-314                     | V-375 SILO CYCLONE VENT                          | 2462C  |
| S-317                     | M-304 BLENDER CYCLONE VENT                       | 2462C  |
| TK-401                    | SOLVENT TANK                                     | 2462C, 106.472/03/14/1997,<br>106.472/09/04/2000 |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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                  |
|---------------------------|--------------------------------|--|
| TK-402                    | SOLVENT TANK                   | 2462C, 106.472/03/14/1997,<br>106.472/09/04/2000 |
| TK-405                    | METHANOL TANK                  | 2462C, 106.472/03/14/1997,<br>106.472/09/04/2000 |
| TK-801                    | UNDERGROUND GASOLINE TANK      | 106.472/03/14/1997                               |
| TK-902                    | TK-902                         | 2462C  |
| TK-903                    | API SKIM TANK                  | 2462C  |
| TK-904                    | STORMWATER TANK                | 106.476/03/14/1997                               |
| U905                      | GENERATOR ENGINE               | 2462C  |
| V-3001                    | STORAGE SILO VENT              | 2462C  |
| V-3002                    | STORAGE SILO VENT              | 2462C  |
| V-3013                    | STORAGE SILO VENT              | 2462C  |
| V-310                     | STORAGE SILO VENT              | 2462C  |
| V-311                     | STORAGE SILO VENT              | 2462C  |
| V-312                     | STORAGE SILO VENT              | 2462C  |
| V-313                     | STORAGE SILO VENT              | 2462C  |
| V-314                     | STORAGE SILO VENT              | 2462C  |
| V-315                     | STORAGE SILO VENT              | 2462C  |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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 |
|---------------------------|--------------------------------|---------------------------------|
| V-316                     | STORAGE SILO VENT              | 2462C                           |
| V-317                     | STORAGE SILO VENT              | 2462C                           |
| V-318                     | STORAGE SILO VENT              | 2462C                           |
| V-319                     | STORAGE SILO VENT              | 2462C                           |
| V-320                     | STORAGE SILO VENT              | 2462C                           |
| V-321                     | STORAGE SILO VENT              | 2462C                           |
| V-322                     | STORAGE SILO VENT              | 2462C                           |
| V-323                     | STORAGE SILO VENT              | 2462C                           |
| V-324                     | STORAGE SILO VENT              | 2462C                           |
| V-325                     | STORAGE SILO VENT              | 2462C                           |
| V-326                     | STORAGE SILO VENT              | 2462C                           |
| V-327                     | STORAGE SILO VENT              | 2462C                           |
| V-328                     | STORAGE SILO VENT              | 2462C                           |
| V-329                     | STORAGE SILO VENT              | 2462C                           |
| V-330                     | STORAGE SILO VENT              | 2462C                           |
| V-331                     | STORAGE SILO VENT              | 2462C                           |
| V-332                     | STORAGE SILO VENT              | 2462C                           |
| V-333                     | STORAGE SILO VENT              | 2462C                           |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units. 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 |
|---------------------------|--------------------------------|---------------------------------|
| V-334                     | STORAGE SILO VENT              | 2462C                           |
| V-335                     | STORAGE SILO VENT              | 2462C                           |
| V-336                     | STORAGE SILO VENT              | 2462C                           |
| V-337                     | STORAGE SILO VENT              | 2462C                           |
| V-338                     | STORAGE SILO VENT              | 2462C                           |
| V-339                     | STORAGE SILO VENT              | 2462C                           |
| V-340                     | STORAGE SILO VENT              | 2462C                           |
| V-341                     | STORAGE SILO VENT              | 2462C                           |
| V-342                     | STORAGE SILO VENT              | 2462C                           |
| V-343                     | STORAGE SILO VENT              | 2462C                           |
| V-344                     | STORAGE SILO VENT              | 2462C                           |
| V-345                     | STORAGE SILO VENT              | 2462C                           |
| V-346                     | STORAGE SILO VENT              | 2462C                           |
| V-347                     | STORAGE SILO VENT              | 2462C                           |
| V-348                     | STORAGE SILO VENT              | 2462C                           |
| V-349                     | STORAGE SILO VENT              | 2462C                           |
| V-383                     | STORAGE SILO VENT              | 2462C                           |
| V-384                     | STORAGE SILO VENT              | 2462C                           |

### **New Source Review Authorization References by Emissions Unit**

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

| <b>Unit/Group/Process ID No.</b> | <b>Emission Unit Name/Description</b> | <b>New Source Review Authorization</b> |
|----------------------------------|---------------------------------------|--|
| V-406                            | PRESSURIZED VESSEL V-406              | 2462C                                  |
| V-407                            | PRESSURIZED VESSEL V-407              | 2462C                                  |
| V-901                            | PRESSURIZED VESSEL V-901              | 2462C                                  |
| V-912                            | SOLTROL STORAGE TANK                  | 2462C                                  |
| X-901                            | FLARE                                 | 135086, 2462C, N224                    |
| X-901-VNT                        | VENTS TO FLARE X-901 FROM PEU-1792    | 2462C                                  |

**Appendix A**

**Acronym List ..... 82**

## 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..... 84**

## Major NSR Summary Table

| Permit Number: 135086 and N224                     |   |                          | Issuance Date: 05/13/2016 |         |                                     |                            |                        |
|--|---|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)                             | Source Name (2)   | Air Contaminant Name (3) | Emission Rates            |         | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|  |   |                          | lb/hr (4)                 | TPY (5) | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| 1796-10A<br>1798-22<br>1799-20<br>45<br>110<br>129 | Flare Group (6)<br>FS-541<br>Z-1101<br>FS-9004<br>X-901<br>Z-101<br>Z-251 | VOC                      | 135.62                    | 34.33   | 2, 3, 5, 6                          | 2, 3, 5, 6, 7              | 3                      |
|  |   | NOx                      | 16.04                     | 4.06    | 2, 3, 5, 6                          | 2, 3, 5, 6, 7              | 3                      |
|  |   | CO                       | 103.91                    | 26.3    | 2, 3, 5, 6                          | 2, 3, 5, 6, 7              | 3                      |

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide
- (4) Compliance with hourly emission limits (pounds per hour) is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period and is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs
- (6) Purge gas may be vented to a combination of one or more flares in the designated group as described in Special Conditions Attachment B and permit application representations.



## 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*  
**Authorize Purge Gas Stream Flaring**  
*Located at Baytown, Harris County, Texas*  
Latitude 29° 49' 35" Longitude -94° 55' 10"

Permits: 135086 and N224

Issuance Date: May 13, 2016

Expiration Date: May 13, 2026

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 No. 135086 and N224

**EMISSION STANDARDS**

1. This permit authorizes emissions from those points listed in the attached table entitled “Emission Sources - Maximum Allowable Emission Rates” (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on the MAERT and other requirements specified in the special conditions. The annual rates are based on any consecutive 12-month period unless otherwise noted.

Planned startup and shutdown emissions due to the activities identified in Special Condition 2 are authorized from facilities and emission points identified in Attachment A in other construction permits at the site, provided the facilities, activities, and emissions are compliant with the respective MAERT and special conditions.

2. This permit authorizes the emissions from the facilities identified in Attachment A for the planned maintenance, startup, and shutdown (MSS) activities for venting and control of purge gas streams summarized in the MSS Activity Summary (Attachment B) attached to this permit.

Transfer of materials through existing piping/fugitive components and additional planned MSS activities not identified in Attachments A or B, and the associated emissions, shall comply with the construction permits at the site for the identified units as follows:

| Unit Name | Flare   | Associated Permit or Registration | Permit Version Date* | Fugitives Special Condition Nos. * | Planned MSS Special Condition Nos.* |
|-----------|---------|-----------------------------------|----------------------|------------------------------------|-------------------------------------|
| PEU-1792  | X-901   | 2462C                             | 7/17/2013            | 14-15, 20                          | 16-17                               |
| PEU-1796  | FS-541  | 19027                             | 10/30/2015           | 20-22, 27                          | 24-26, 28-29                        |
| PEU-1799  | FS-9004 | 46305                             | 7/18/2014            | 3-4                                | (PBR §106.263)                      |
| NAO-1797  | Z-101   | 37063, N178                       | 1/30/2015            | 11-13                              | 21-26                               |
| NAO-1798  | Z-1101  |                                   |                      |                                    |                                     |
| HU-1891   | Z-251   |                                   |                      |                                    |                                     |

*\*Special Condition references are included only for convenience and are unique to the permit version listed. If any permit in the above table is altered, revised, amended, or renewed, the substantive technical and administrative requirements for fugitive components and planned MSS must continue to be met.*

**FEDERAL APPLICABILITY**

3. The facilities and activities authorized under this permit shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations as follows:
  - A. Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):

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- (1) Subpart A, General Provisions.
  - (2) 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.
  - (3) Subpart DDD, Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry.
  - (4) Subpart NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations.
  - (5) Subpart RRR, Standards of Performance for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes.
- B. National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
- (1) Subpart A, General Provisions.
  - (2) Subpart SS, National Emission Standards for Hazardous Air Pollutants: Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.
  - (3) Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

## **OPERATIONAL SPECIFICATIONS**

4. For the purge gas stream routing scenarios identified in Attachment B, all streams shall be vented to flare as listed.
5. Flares 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, waste stream, and purge gas streams 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.

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- 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 steam assist to flares X-901, FS-541, Z-101, Z-1101, and Z-251 and air assist to flare FS-9004.
- D. The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow and composition (total VOC) to each flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour.
- (1) The flow 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.
  - (2) Calibration of the composition analyzers 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).
  - (3) The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12 month period consistent with applicable requirements contained in 30 TAC 115 Subchapter H. The percent measurement data availability shall be calculated as the total flare specific operating hours while quality assured data was recorded divided by the total flare specific operating hours. Time required for normal calibration checks is not considered downtime for purposes of this calculation. The average block hourly 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 based on 15 minute samples.
  - (4) Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit application.

## COMPLIANCE ASSURANCE MONITORING

6. The following requirements apply to capture systems for all flares and planned MSS authorized by this permit:

A. The following requirements apply to the closed vent capture system which includes all equipment that contains, collects, and transports air pollutants from a source to the flares listed in Attachment A. To control pollutants other than particulate:

- (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
- (2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 parts per million by volume (ppmv) above background; or,
- (3) Maintain the capture system under negative pressure at all times, verified and recorded weekly with a pressure measurement device.

For unsafe-to-inspect parts of a closed vent systems the applicant shall maintain a written plan, available at the site and upon request, for inspecting the equipment as frequently as practicable during safe-to-inspect conditions. The plan shall identify and explain the inherent dangers associated with of all parts of the closed vent system that are designated as unsafe. Inspection is not required more than once in any 12-month period.

B. If there is a bypass for the flares listed in Attachment A, comply with either of the following requirements:

All bypasses for the flares listed in Attachment A shall:

- (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
- (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A bypass does not include authorized analyzer vents, highpoint bleeder vents, low point drains, or rupture discs upstream of pressure relief valves if the pressure between the disc and relief valve is monitored and recorded at least weekly.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when it is required to be in service per this permit.

C. Records of the required inspections shall be maintained. If the result of any of the inspections is not satisfactory, the permit holder shall promptly take necessary corrective action.

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### RECORDKEEPING

7. Records shall be maintained indicating that the start and end times of each of the activities identified in Attachment B and documentation that the requirements of these special conditions and emission limitations have been satisfied. Total emissions should be summed for each activity using the flow and VOC analyzer data collected under Special Condition No. 5. Records shall be retained for no less than five (5) years.

### OFFSETS

8. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H, including time frames.
9. The permit holder shall use 44.7 tons per year (tpy) of VOC credits (Emission Reduction credits and/or Discrete Emission Reduction Credits) to offset the 34.4 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0. The total amount of offsets are required during any calendar year when the permitted activities occur. No offsets are required for any calendar year when the permitted activities do not occur. Credits need to be provided and approved in advance of the activities.
10. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.
11. In addition to, or in place of, using credits as described in Special Condition Number 8, the permit holder may use up to 44.7 tpy of Highly Reactive Volatile Organic Compounds Emission Cap and Trade (HECT) allowances to offset the 34.4 tpy VOC project emission increase for the following HECT facilities authorized by this permit at a ratio of 1.3 to 1.0:
  - A. FIN X-901 EPN 45
  - B. FIN FS-541, EPN 1796-10A
  - C. FIN FS-9004, EPN 1799-20
  - D. FIN Z-101, EPN 110
  - E. FIN Z-1101, EPN 1798-22
  - F. FIN Z-251, EPN 129

DATE: May 13, 2016

Permit 135086, N224  
Attachment A  
MSS FACILITIES SUMMARY

This permit authorizes planned MSS emissions from purge gases from the permanent site facilities identified below.

| <b>Unit Name * /<br/>Facility<br/>Identification No.<br/>(FIN)</b> | <b>Associated<br/>Permit No.</b> | <b>Flare<br/>Identification</b> | <b>Flare FIN / Emission Point<br/>No. (EPN)</b> |
|--|----------------------------------|---------------------------------|---|
| PEU-1792/P-1792  | 2462C                            | X-901                           | X-901/45  |
| PEU-1796/P-1796  | 19027                            | FS-541                          | FS-541/1796-10A                                 |
| PEU-1799/P-1799  | 46305                            | FS-9004                         | FS-9004/1799-20                                 |
| NAO-1797/P-1797  | 37063, N178                      | Z-101                           | Z-101/110                                       |
| NAO-1798/P-1798  | 37063, N178                      | Z-1101                          | Z-1101/1798-22                                  |
| HU-1891/P-1891   | 37063, N178                      | Z-251                           | Z-251/129                                       |

\* Abbreviations:

PEU - Polyethylene Units  
NAO - Normal Alpha Olefins Units  
HU - 1-Hexene Unit

DATE: May 13, 2016

Permit 135086, N224  
Attachment B  
MSS ACTIVITIES SUMMARY

| <b>Scenario No.</b> | <b>Description</b>  | <b>Facilities</b>                               | <b>Vented/Control</b>   |
|---------------------|---|---|-------------------------|
| 1                   | All unit purge gas streams vent to their specific unit flares | <i>See Attachment A</i>                         | <i>See Attachment A</i> |
| 2                   | PEU all vent to designated flare                              | PEU-1792, PEU-1796, PEU-1799                    | FS-541                  |
|                     | NAO and HU vent to specific unit flares                       | <i>See Attachment A</i>                         | <i>See Attachment A</i> |
| 3                   | PEU all vent to designated flare                              | PEU-1792, PEU-1796, PEU-1799                    | X-901                   |
|                     | NAO and HU vent to specific unit flares                       | <i>See Attachment A</i>                         | <i>See Attachment A</i> |
| 4                   | One NAO vent to specific unit flare                           | NAO-1798  | Z-1101                  |
|                     | All other units vent to designated flare                      | PEU-1792, PEU-1796, PEU-1799, NAO-1797, HU-1891 | Z-101                   |

NOTE: The production units with purge gas streams will continue to operate normally and during the periods when purge gas streams are being flared as authorized by this permit.

DATE: May 13, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Number 135086 & N224

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.<br>(1)                          | Source Name (2)   | Air Contaminant Name<br>(3) | Emission Rates |         |
|--|---|-----------------------------|----------------|---------|
|  |   |                             | lbs/hour (4)   | TPY (5) |
| 1796-10A<br>1798-22<br>1799-20<br>45<br>110<br>129 | Flare Group (6)<br>FS-541<br>Z-1101<br>FS-9004<br>X-901<br>Z-101<br>Z-251 | VOC                         | 135.62         | 34.33   |
|  |   | NO <sub>x</sub>             | 16.04          | 4.06    |
|  |   | CO                          | 103.91         | 26.30   |

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide
- (4) Compliance with hourly emission limits (pounds per hour) is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period and is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs
- (6) Purge gas may be vented to a combination of one or more flares in the designated group as described in Special Conditions Attachment B and permit application representations.

Date: May 13, 2016