



## Table of Contents

| <b>Section</b>   | <b>Page</b> |
|--|-------------|
| General Terms and Conditions .....   | 1           |
| Special Terms and Conditions .....   | 1           |
| Emission Limitations and Standards, Monitoring and Testing, and<br>Recordkeeping and Reporting ..... | 1           |
| Additional Monitoring Requirements .....   | 10          |
| New Source Review Authorization Requirements .....   | 10          |
| Compliance Requirements.....   | 11          |
| Risk Management Plan .....   | 12          |
| Protection of Stratospheric Ozone.....   | 12          |
| Temporary Fuel Shortages (30 TAC § 112.15) .....   | 13          |
| Alternative Requirements .....   | 14          |
| Permit Location.....   | 14          |
| Permit Shield (30 TAC § 122.148) .....   | 14          |
| Attachments .....  | 15          |
| Applicable Requirements Summary .....  | 16          |
| Additional Monitoring Requirements .....   | 51          |
| Permit Shield.....   | 55          |
| New Source Review Authorization References.....  | 60          |
| Schedules.....   | 91          |
| Alternative Requirement.....   | 93          |
| Appendix A .....   | 97          |
| Acronym List .....   | 98          |
| Appendix B .....   | 99          |

## **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 A as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.100 which incorporates the 40 CFR Part 63 Subpart by reference.
  - F. Emission units subject to 40 CFR Part 63, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.890 which incorporates the 40 CFR Part 63 Subpart by reference.
  - G. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
  - H. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)

- F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<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. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
  - (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<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 source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
  - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
  - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
  - (iii) Title 30 TAC § 111.209 (relating to Exception for Disposal Fires)
  - (iv) Title 30 TAC § 111.213 (relating to Exception for Hydrocarbon Burning)
  - (v) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
  - (vi) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: “Storage of Volatile Organic Compounds,” the permit holder shall comply with the requirements of 30 TAC § 115.112(c)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
    - (i) Title 30 TAC § 115.222(7) (relating to Control Requirements)
    - (ii) Title 30 TAC § 115.222(3), as it applies to liquid gasoline leaks
    - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)

- D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
7. 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.
8. For miscellaneous chemical process facilities subject to maintenance wastewater requirements as specified in 40 CFR § 63.2485, Table 7, the permit holder shall comply with the requirements of 40 CFR § 63.105 (relating to Maintenance Wastewater Requirements) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

#### **Additional Monitoring Requirements**

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

#### **New Source Review Authorization Requirements**

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

- A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, 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**

13. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
14. The permit holder shall adhere to the provisions in the Compliance Schedule attachment of this permit and submit certified progress reports consistent with the schedule established under 30 TAC § 122.132(e)(4)(C) and including the information specified in 30 TAC § 122.142(e)(2). Those emission units listed in the Compliance Schedule attachment shall adhere with the requirements in the Compliance Schedule attachment until operating fully in compliance with the applicable requirements.

15. 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**

16. 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**

17. 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 the following 40 CFR Part 82, Subpart E requirements for labeling products using ozone-depleting substances:
  - (i) Title 40 CFR § 82.100 (relating to Purpose)
  - (ii) Title 40 CFR § 82.102(a)(1) - (3), (b), (c) (relating to Applicability);
  - (iii) Title 40 CFR § 82.104 (relating to Definitions)
  - (iv) Title 40 CFR § 82.106 - 112 (relating to Warning Statements and Labels)
  - (v) Title 40 CFR § 82.114 (relating to Labeling Containers of Controlled [ozone - depleting] Substances)
  - (vi) Title 40 CFR § 82.116 (relating to Incorporation of Products Manufactured with Controlled [ozone-depleting] Substances)
  - (vii) Title 40 CFR § 82.120 (relating to Petitions)
  - (viii) Title 40 CFR § 82.122 (relating Certification, Recordkeeping, and Notice requirements)
  - (ix) Title 40 CFR § 82.124 (relating to Prohibitions)
  
- C. 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.

**Temporary Fuel Shortages (30 TAC § 112.15)**

- 18. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
  - A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)

- B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
- C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
- D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

### **Alternative Requirements**

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

### **Permit Location**

- 20. 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)**

- 21. 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**

**Schedules**

**Alternative Requirement**

## **Applicable Requirements Summary**

**Unit Summary .....17**

**Applicable Requirements Summary ..... 29**

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

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type   | Group/Inclusive<br>Units   | SOP Index No. | Regulation                               | Requirement Driver      |
|-------------------------------|---|--|---------------|--|-------------------------|
| GRP-BOILER                    | Boilers/Steam<br>Generators/Steam<br>Generating Units | HH-731A, HH-731B   | REG2-1        | 30 TAC Chapter 112, Sulfur<br>Compounds  | No changing attributes. |
| GRP-BOILER                    | Boilers/Steam<br>Generators/Steam<br>Generating Units | HH-731A, HH-731B   | 63DDDDD-1     | 40 CFR Part 63, Subpart<br>DDDDD         | No changing attributes. |
| MAINT-BOILER                  | Boilers/Steam<br>Generators/Steam<br>Generating Units | N/A  | 63DDDDD-002   | 40 CFR Part 63, Subpart<br>DDDDD         | No changing attributes. |
| PRO-<br>MONVNTB2              | Chemical<br>Manufacturing Process                     | N/A  | 63FFFF-B1     | 40 CFR Part 63, Subpart<br>FFFF          | No changing attributes. |
| PRO-<br>MONVNTCB              | Chemical<br>Manufacturing Process                     | N/A  | 63FFFF-C2     | 40 CFR Part 63, Subpart<br>FFFF          | No changing attributes. |
| PRO-<br>MONVNTCF              | Chemical<br>Manufacturing Process                     | N/A  | 63FFFF-C1     | 40 CFR Part 63, Subpart<br>FFFF          | No changing attributes. |
| PRO-MONVNTE                   | Chemical<br>Manufacturing Process                     | N/A  | 63FFFF-E1     | 40 CFR Part 63, Subpart<br>FFFF          | No changing attributes. |
| GRP-115BLR                    | Emission<br>Points/Stationary<br>Vents/Process Vents  | 2B-490, F-486,<br>GCVENTS, PCV3033B,<br>PCV379, PCV388,<br>PCV4048, PCV4120,<br>PCV4128, V-735 | R5121-7       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-115FLR                    | Emission<br>Points/Stationary<br>Vents/Process Vents  | ANALYZER1,<br>ANALYZER2, CD2,<br>CD3, CD5, E-561,<br>HCV210, HCV220,                           | R5121-1       | 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      |
|-------------------------------|--|--|---------------|--|-------------------------|
|                               |  | HCV230, HCV240,<br>HV1, HV16, HV17,<br>HV9, PCV231,<br>PCV268A, PCV285A,<br>PCV3051, PCV3081,<br>PCV402B, PCV404,<br>PCV420B, PCV422,<br>PCV501B, PCV5288,<br>PCV544, PCV591B,<br>PCV606A, PCV6088,<br>PCV703, PCV726  |               |  |                         |
| GRP-3FPSV                     | Emission<br>Points/Stationary<br>Vents/Process Vents | HV11, HV12, HV13,<br>HV14, HV15, PSV191,<br>PSV200, PSV2006,<br>PSV202, PSV2026,<br>PSV2045, PSV2059,<br>PSV2066, PSV2078,<br>PSV2079, PSV226,<br>PSV2277, PSV2305,<br>PSV233, PSV2337,<br>PSV2342, PSV2344,<br>PSV2352, PSV2353,<br>PSV2377, PSV3034,<br>PSV3202, PSV7051 | R5121-1       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-3FVENT                    | Emission<br>Points/Stationary<br>Vents/Process Vents | ANALYZER3A,<br>ANALYZER3B, CD6,<br>PCV2336A, PCV330,<br>PCV7052  | R5121-1       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP3HBL431                    | Emission<br>Points/Stationary                        | 3BL-431A, 3BL-431B,<br>3BL-431C, 3BL-431D,   | R5121-5       | 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      |
|-------------------------------|--|--|---------------|--|-------------------------|
|                               | Vents/Process Vents                                  | 4BL-431A, 4BL-431B,<br>4BL-431C, 4BL-431E,<br>4BL-431F, XC4100,<br>XC415, XC417, XC421,<br>XC423, XC434, XC56  |               |  |                         |
| GRP3HF456                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 3F-456, 4F-456   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP3HTB451                    | Emission<br>Points/Stationary<br>Vents/Process Vents | 3S-455A, 3S-455B, 3S-<br>455C, LOADRC31,<br>LOADRC32,<br>LOADRC33, XC465   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-ATM2                      | Emission<br>Points/Stationary<br>Vents/Process Vents | PSV124, PSV178,<br>PSV2189, PSV2190,<br>PSV2201, PSV2204,<br>PSV2206A, PSV2214,<br>PSV2215, PSV2245,<br>PSV2247, PSV2256,<br>PSV2258, PSV2265,<br>PSV2271, PSV2278,<br>PSV2282, PSV2288,<br>PSV2295, PSV2311,<br>PSV2312, PSV24039,<br>PSV2556, PSV2557,<br>PSV306A, PSV309,<br>PSV309A, PSV30A,<br>PSV310, PSV3439,<br>PSV346, PSV372,<br>PSV390, PSV4001,<br>PSV4002, PSV4003, | R5121-5       | 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      |
|-------------------------------|--|---|---------------|--|-------------------------|
|                               |  | PSV4005, PSV4019,<br>PSV4020, PSV4158,<br>PSV44056, PSV44058,<br>PSV44070, PSV44076,<br>PSV44095, PSV44096,<br>PSV44106, PSV44109,<br>PSV4602, PSV4605,<br>PSV521, PSV5223,<br>PSV7261, PSV7262,<br>PSV7263, PSV7264,<br>RD240, RD306,<br>RD309, RD330,<br>RD331, RD340,<br>RD3401, RD341,<br>RD349, RD506,<br>RD800, XC4004,<br>XC4005, XC4006,<br>XC4007, XC4432,<br>XC4433, XC4434,<br>XC4435, XC4447,<br>XFC816A, XFC816B |               |  |                         |
| GRP-ATM3                      | Emission<br>Points/Stationary<br>Vents/Process Vents | PCV4417, PSV2220,<br>PSV4203, PSV4415,<br>PSV446, PSV460,<br>PSV466, RD300,<br>RD302, XC461   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-BVENT                     | Emission<br>Points/Stationary<br>Vents/Process Vents | PCV1091, V-197  | R5121-2       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-FVENT                     | Emission   | CD1, CD4, HCV202,   | R5121-1       | 30 TAC Chapter 115, Vent                 | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type                                | Group/Inclusive<br>Units   | SOP Index No. | Regulation   | Requirement Driver |
|-------------------------------|--|--|---------------|--------------|--------------------|
|                               | Points/Stationary<br>Vents/Process Vents | HV10, HV2, HV3, HV4,<br>HV5, HV6, HV7, HV8,<br>PSV1065, PSV1069,<br>PSV1071, PSV1073,<br>PSV1077, PSV110,<br>PSV113, PSV1182,<br>PSV1184, PSV133,<br>PSV142, PSV143,<br>PSV1435, PSV145,<br>PSV1462, PSV148,<br>PSV150, PSV152,<br>PSV154, PSV156,<br>PSV172, PSV2028,<br>PSV2029, PSV2033,<br>PSV2038, PSV2162,<br>PSV2168, PSV2173,<br>PSV2184, PSV2185,<br>PSV2186, PSV2187,<br>PSV2192, PSV2193,<br>PSV2195, PSV2197,<br>PSV2198, PSV2199,<br>PSV2213, PSV2222,<br>PSV2223, PSV2224,<br>PSV2225, PSV2226,<br>PSV2236, PSV2237,<br>PSV2239, PSV2240,<br>PSV2243, PSV2244,<br>PSV2246, PSV2248,<br>PSV2250, PSV2251,<br>PSV2254, PSV2255,<br>PSV2259, PSV2261, |               | Gas Controls |                    |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type  | Group/Inclusive<br>Units  | SOP Index No. | Regulation                               | Requirement Driver      |
|-------------------------------|--|---|---------------|--|-------------------------|
|                               |  | PSV2262, PSV2263,<br>PSV2269, PSV2272,<br>PSV2273, PSV2276,<br>PSV2279, PSV2286,<br>PSV2290, PSV2291,<br>PSV2294, PSV2296,<br>PSV2298, PSV2299,<br>PSV502, PSV508,<br>PSV510, PSV515,<br>PSV517, PSV5182,<br>PSV5190, PSV5191,<br>PSV520, PSV524,<br>PSV530, PSV5321,<br>PSV5322, PSV5323,<br>PSV550, PSV567,<br>PSV595, PSV605,<br>PSV6071A, PSV6071B,<br>PSV6072, PSV7206,<br>PSV7246, PSV7720, V-<br>193 |               |  |                         |
| GRP-HBL431                    | Emission<br>Points/Stationary<br>Vents/Process Vents | 1S-433A, 1S-433B, 1S-<br>433C, 2S-433A, 2S-<br>433B, 2S-433C,<br>XC4009, XC4010,<br>XC4011, XC4028,<br>XC4029, XC4030,<br>XC4049, XC4060C   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HF415                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 3B-415, B-415   | R5121-5       | 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      |
|-------------------------------|--|---|---------------|--|-------------------------|
| GRP-HF454                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 1S-454, 2S-454,<br>PSV4149A, PSV4149B,<br>PSV4149C, PSV4149D,<br>PSV4149E, PSV4161A,<br>PSV4161B, PSV4161C,<br>PSV4161D, PSV4161E   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HF456                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 1F-456, 2F-456  | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HQ460                     | Emission<br>Points/Stationary<br>Vents/Process Vents | PCV4659, PCV4660  | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HST101                    | Emission<br>Points/Stationary<br>Vents/Process Vents | HST-101, PSV102,<br>PSV104, PSV126,<br>PSV184, RD122,<br>RD161, RD175,<br>XCV1006   | R5121-3       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HT441                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 1S-443A, 1S-443B, 1S-<br>443C, 1S-443E, 1S-<br>443F, 1S-443G, 1S-<br>443H, 1S-443I, 1S-<br>443J, 1S-443K, 1S-<br>443L, 2S-443A, 2S-<br>443B, 2S-443C, 2S-<br>443D, 2S-443E, 2S-<br>443F, XC4061,<br>XC4062, XC4077,<br>XC4078, XC4079,<br>XC4081, XC4082, | R5121-5       | 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      |
|-------------------------------|--|--|---------------|--|-------------------------|
|                               |  | XC4083, XC4084,<br>XC4085, XC4086,<br>XC4087, XC4088,<br>XC4098, XC4099  |               |  |                         |
| GRP-HTB451                    | Emission<br>Points/Stationary<br>Vents/Process Vents | 1S-455A, 1S-455B, 2S-<br>455A, 2S-455B,<br>LOADRC1, LOADRC2,<br>LOADRC3, LOADRC4,<br>XC4093, XC4094,<br>XC4095, XC4096,<br>XC4097, XC472 | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HV124                     | Emission<br>Points/Stationary<br>Vents/Process Vents | PCV113, PCV1433,<br>PSV114, PSV115,<br>PSV116, PSV1174A,<br>PSV1174B, PSV120   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HV125                     | Emission<br>Points/Stationary<br>Vents/Process Vents | PCV1446, PSV1442   | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| GRP-HX411                     | Emission<br>Points/Stationary<br>Vents/Process Vents | 1V-411, 2V-411, 3V-411,<br>HX-411  | R5121-4       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| LOADPP                        | Emission<br>Points/Stationary<br>Vents/Process Vents | N/A  | R5121-5       | 30 TAC Chapter 115, Vent<br>Gas Controls | No changing attributes. |
| MSSLOADPP                     | Emission<br>Points/Stationary<br>Vents/Process Vents | N/A  | R5121-5       | 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  |
|-------------------------------|--|--------------------------|---------------|---------------------------------|---|
| PRO-<br>MONVNTCB              | Emission<br>Points/Stationary<br>Vents/Process Vents | N/A                      | 63FFFF-VNT02  | 40 CFR Part 63, Subpart<br>FFFF | Alt 63SS Mon Parameters =<br>Alternate monitoring<br>parameters or requirements<br>have not been approved by<br>the Administrator or have<br>not been requested., CEMS<br>= A CEMS is not used., SS<br>Device Type = Boiler or<br>process heater with a design<br>heat input capacity equal to<br>or greater than 44<br>megawatts (MW) or in<br>which all vent streams are<br>introduced with the primary<br>fuel or are used as the<br>primary fuel., Meets<br>63.988(b)(2) = The control<br>device meets criteria in §<br>63.985(b)(2). |
| PRO-<br>MONVNTCB              | Emission<br>Points/Stationary<br>Vents/Process Vents | N/A                      | 63FFFF-VNT03  | 40 CFR Part 63, Subpart<br>FFFF | Alt 63SS Mon Parameters =<br>Alternate monitoring<br>parameters or requirements<br>have been approved by the<br>Administrator., SS Device<br>Type = Boiler or process<br>heater with a design heat<br>input capacity of less than<br>44 MW and the vent stream<br>is not introduced as or with<br>the primary fuel., Meets<br>63.988(b)(2) = The control  |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type                                      | Group/Inclusive<br>Units   | SOP Index No. | Regulation                                       | Requirement Driver                                   |
|-------------------------------|--|----------------------------|---------------|--|--|
|                               |  |                            |               |  | device does not meet the criteria in § 63.985(b)(2). |
| PRO-MONVNTCC                  | Emission Points/Stationary Vents/Process Vents | N/A                        | 63FFFF-VNT04  | 40 CFR Part 63, Subpart FFFF                     | No changing attributes.                              |
| PRO-MONVNTCF                  | Emission Points/Stationary Vents/Process Vents | N/A                        | 63FFFF-VNT01  | 40 CFR Part 63, Subpart FFFF                     | No changing attributes.                              |
| GRP-FLARE                     | Flares   | FLAREPROC, FLARE-TIP       | R1111-1       | 30 TAC Chapter 111, Visible Emissions            | No changing attributes.                              |
| GRP-FLARE                     | Flares   | FLAREPROC, FLARE-TIP       | 60A-1         | 40 CFR Part 60, Subpart A                        | No changing attributes.                              |
| GRP-FLARE                     | Flares   | FLAREPROC, FLARE-TIP       | 63A-1         | 40 CFR Part 63, Subpart A                        | No changing attributes.                              |
| GRP-FUGDDD                    | Fugitive Emission Units                        | CB-1, CB-2, CB-3, FUGITIVE | 63FFFF-1      | 40 CFR Part 63, Subpart FFFF                     | No changing attributes.                              |
| GRP-CTOWER                    | Industrial Process Cooling Towers              | CT-711, CT-711A            | 63FFFF-3      | 40 CFR Part 63, Subpart FFFF                     | No changing attributes.                              |
| L-737                         | Loading/Unloading Operations                   | N/A                        | R5211-1       | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes.                              |
| L-737                         | Loading/Unloading Operations                   | N/A                        | 63FFFF-1      | 40 CFR Part 63, Subpart FFFF                     | No changing attributes.                              |
| L-740                         | Loading/Unloading Operations                   | N/A                        | R5211-1       | 30 TAC Chapter 115, Loading and Unloading of     | No changing attributes.                              |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type                       | Group/Inclusive<br>Units | SOP Index No. | Regulation                             | Requirement Driver      |
|-------------------------------|---------------------------------|--------------------------|---------------|--|-------------------------|
|                               |                                 |                          |               | VOC                                    |                         |
| L-740                         | Loading/Unloading<br>Operations | N/A                      | 63FFFF-1      | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| EG701                         | SRIC Engines                    | N/A                      | 63ZZZZ-2      | 40 CFR Part 63, Subpart<br>ZZZZ        | No changing attributes. |
| P741B                         | SRIC Engines                    | N/A                      | 63ZZZZ-2      | 40 CFR Part 63, Subpart<br>ZZZZ        | No changing attributes. |
| P741C                         | SRIC Engines                    | N/A                      | 63ZZZZ-2      | 40 CFR Part 63, Subpart<br>ZZZZ        | No changing attributes. |
| HT-171                        | Storage Tanks/Vessels           | N/A                      | 63FFFF-TK1    | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| HT-601                        | Storage Tanks/Vessels           | N/A                      | R5112-2       | 30 TAC Chapter 115,<br>Storage of VOCs | No changing attributes. |
| HT-601                        | Storage Tanks/Vessels           | N/A                      | 63FFFF-TK1    | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| HT-602                        | Storage Tanks/Vessels           | N/A                      | R5112-2       | 30 TAC Chapter 115,<br>Storage of VOCs | No changing attributes. |
| HT-602                        | Storage Tanks/Vessels           | N/A                      | 63FFFF-TK1    | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| HT-606                        | Storage Tanks/Vessels           | N/A                      | R5112-2       | 30 TAC Chapter 115,<br>Storage of VOCs | No changing attributes. |
| HT-606                        | Storage Tanks/Vessels           | N/A                      | 63FFFF-TK1    | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| HT-735                        | Storage Tanks/Vessels           | N/A                      | R5112-2       | 30 TAC Chapter 115,                    | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type             | Group/Inclusive<br>Units | SOP Index No. | Regulation                             | Requirement Driver      |
|-------------------------------|-----------------------|--------------------------|---------------|--|-------------------------|
|                               |                       |                          |               | Storage of VOCs                        |                         |
| HT-735                        | Storage Tanks/Vessels | N/A                      | 63FFFF-TK1    | 40 CFR Part 63, Subpart<br>FFFF        | No changing attributes. |
| HT-801                        | Storage Tanks/Vessels | N/A                      | R5112-4       | 30 TAC Chapter 115,<br>Storage of VOCs | No changing attributes. |
| V-795                         | Storage Tanks/Vessels | N/A                      | R5112-5       | 30 TAC Chapter 115,<br>Storage of VOCs | No changing attributes. |
| V-795                         | Storage Tanks/Vessels | N/A                      | 63FFFF-TK2    | 40 CFR Part 63, Subpart<br>FFFF        | 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)   |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|---|
| GRP-BOILER                | EU                      | REG2-1        | SO2         | 30 TAC Chapter 112, Sulfur Compounds  | § 112.9(a)  | No person may cause, suffer, allow, or permit emissions of SO2 from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours. | § 112.2(a)<br>** See Periodic Monitoring Summary  | § 112.2(c)   | § 112.2(b)  |
| GRP-BOILER                | EU                      | 63DDDD D-1    | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD         | § 63.7505<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD   | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD  |
| MAINT-BOILER              | EU                      | 63DDDD D-002  | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD         | § 63.7505<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD   | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD  |
| PRO-MONVNTB2              | PRO                     | 63FFFF-B1     | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2440(a)<br>§ 63.2450(a)<br>§ 63.2450(l)<br>§ 63.2460(c)(1)   | This subpart applies to each miscellaneous organic chemical manufacturing affected source.   | § 63.2445(d)<br>§ 63.2460(c)(2)(v)  | § 63.2525<br>§ 63.2525(a)<br>[G]§ 63.2525(b)<br>§ 63.2525(c)<br>§ 63.2525(f)<br>§ 63.2525(j)                   | § 63.2435(d)<br>§ 63.2445(c)<br>§ 63.2450(g)(5)<br>§ 63.2450(m)<br>§ 63.2450(m)(1)<br>§ 63.2450(m)(2)<br>§ 63.2460(c)(1)<br>§ 63.2515(a)<br>§ 63.2515(b)(1)<br>§ 63.2515(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><br>(30 TAC § 122.144)   | Reporting Requirements<br><br>(30 TAC § 122.145)   |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|-------------------------------------|--|--|
|                           |                         |               |             |                                       |   |  |                                     |  | § 63.2520(a)<br>[G]§ 63.2520(b)<br>[G]§ 63.2520(c)<br>[G]§ 63.2520(d)<br>§ 63.2520(e)<br>§ 63.2520(e)(1)<br>[G]§ 63.2520(e)(10)<br>§ 63.2520(e)(2)<br>§ 63.2520(e)(3)<br>§ 63.2520(e)(4)<br>§ 63.2520(e)(5)<br>§ 63.2520(e)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9)   |
| PRO-MONVNTCB              | PRO                     | 63FFFF-C2     | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2440(a)<br>§ 63.2450(a)<br>§ 63.2450(l)                      | This subpart applies to each miscellaneous organic chemical manufacturing affected source. | § 63.2445(d)                        | § 63.2525<br>§ 63.2525(a)<br>[G]§ 63.2525(b)<br>§ 63.2525(c)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 63.2435(d)<br>§ 63.2445(c)<br>§ 63.2450(g)(5)<br>§ 63.2450(m)<br>§ 63.2450(m)(1)<br>§ 63.2450(m)(2)<br>§ 63.2515(a)<br>§ 63.2515(b)(1)<br>§ 63.2515(c)<br>§ 63.2520(a)<br>[G]§ 63.2520(b)<br>[G]§ 63.2520(c)<br>[G]§ 63.2520(d)<br>§ 63.2520(e)<br>§ 63.2520(e)(1)<br>[G]§ 63.2520(e)(10)<br>§ 63.2520(e)(2)<br>§ 63.2520(e)(3)<br>§ 63.2520(e)(4)<br>§ 63.2520(e)(5)<br>§ 63.2520(e)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>§ 63.2520(e)(6) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)                                  | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|-------------------------------------|--|--|
|                           |                         |               |             |                                       |   |  |                                     |  | § 63.2520(e)(7)<br>§ 63.2520(e)(9)   |
| PRO-MONVNTCF              | PRO                     | 63FFFF-C1     | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2440(a)<br>§ 63.2450(a)<br>§ 63.2450(l)                      | This subpart applies to each miscellaneous organic chemical manufacturing affected source. | § 63.2445(d)                        | § 63.2525<br>§ 63.2525(a)<br>[G]§ 63.2525(b)<br>§ 63.2525(c)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 63.2435(d)<br>§ 63.2445(c)<br>§ 63.2450(g)(5)<br>§ 63.2450(m)<br>§ 63.2450(m)(1)<br>§ 63.2450(m)(2)<br>§ 63.2515(a)<br>§ 63.2515(b)(1)<br>§ 63.2515(c)<br>§ 63.2520(a)<br>[G]§ 63.2520(b)<br>[G]§ 63.2520(c)<br>[G]§ 63.2520(d)<br>§ 63.2520(e)<br>§ 63.2520(e)(1)<br>[G]§ 63.2520(e)(10)<br>§ 63.2520(e)(2)<br>§ 63.2520(e)(3)<br>§ 63.2520(e)(4)<br>§ 63.2520(e)(5)<br>§ 63.2520(e)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9) |
| PRO-MONVNTE               | PRO                     | 63FFFF-E1     | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2440(a)<br>§ 63.2450(a)<br>§ 63.2450(l)<br>§ 63.2460(c)(1)   | This subpart applies to each miscellaneous organic chemical manufacturing affected source. | § 63.2445(d)<br>§ 63.2460(c)(2)(v)  | § 63.2525<br>§ 63.2525(a)<br>[G]§ 63.2525(b)<br>§ 63.2525(c)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 63.2435(d)<br>§ 63.2445(c)<br>§ 63.2450(g)(5)<br>§ 63.2450(m)<br>§ 63.2450(m)(1)<br>§ 63.2450(m)(2)<br>§ 63.2460(c)(1)<br>§ 63.2515(a)<br>§ 63.2515(b)(1)<br>§ 63.2515(c)<br>§ 63.2520(a)  |

## 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)  |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|---|--|
|                           |                         |               |           |                                       |   |  |                                     |   | [G]§ 63.2520(b)<br>[G]§ 63.2520(c)<br>[G]§ 63.2520(d)<br>§ 63.2520(e)<br>§ 63.2520(e)(1)<br>[G]§ 63.2520(e)(10)<br>§ 63.2520(e)(2)<br>§ 63.2520(e)(3)<br>§ 63.2520(e)(4)<br>§ 63.2520(e)(5)<br>§ 63.2520(e)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9) |
| GRP-115BLR                | EP                      | R5121-7       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(C)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1). | [G]§ 115.125<br>§ 115.126(2)        | § 115.126<br>§ 115.126(2)                     | None   |
| GRP-115FLR                | EP                      | R5121-1       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(B)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1). | [G]§ 115.125<br>§ 115.126(2)        | § 115.126<br>§ 115.126(2)                     | None   |
| GRP-3FPSV                 | EP                      | R5121-1       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(B)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1). | [G]§ 115.125<br>§ 115.126(2)        | § 115.126<br>§ 115.126(2)                     | None   |
| GRP-3FVENT                | EP                      | R5121-1       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(B)          | Any process vent containing one or more VOC or classes of VOC specified in   | [G]§ 115.125<br>§ 115.126(2)        | § 115.126<br>§ 115.126(2)                     | None   |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements                             | Recordkeeping Requirements (30 TAC § 122.144)                                | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |           |                                       |   | §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1).   |   |  |   |
| GRP3HBL431                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)<br>§ 115.126(4) | None                                      |
| GRP3HBL431                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)<br>§ 115.126(4) | None                                      |
| GRP3HF456                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)                 | None                                      |
| GRP3HF456                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)                 | None                                      |
| GRP3HTB451                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-  | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)                 | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |           |                                       |   | (C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1).   |   |  |   |
| GRP3HTB451                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-ATM2                  | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-ATM2                  | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-ATM3                  | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-ATM3                  | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)                    | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |           |                                       |   | and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   |   | § 115.126(3)(C)  |   |
| GRP-BVENT                 | EP                      | R5121-2       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(C)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1).  | [G]§ 115.125<br>§ 115.126(2)                    | § 115.126<br>§ 115.126(2)                                    | None                                      |
| GRP-FVENT                 | EP                      | R5121-1       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(B)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1).  | [G]§ 115.125<br>§ 115.126(2)                    | § 115.126<br>§ 115.126(2)                                    | None                                      |
| GRP-HBL431                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-HBL431                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-HF415                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour  | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |           |                                       |   | period is exempt from § 115.121(c)(1).  |   |  |   |
| GRP-HF415                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-HF454                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-HF454                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-HF456                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-HF456                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements                             | Recordkeeping Requirements (30 TAC § 122.144)                                | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |           |                                       |   | 115.121(c)(1).  |   |  |   |
| GRP-HQ460                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)                 | None                                      |
| GRP-HQ460                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)                 | None                                      |
| GRP-HST101                | EP                      | R5121-3       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(C)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1).  | [G]§ 115.125<br>§ 115.126(2)                                    | § 115.126<br>§ 115.126(2)  | None                                      |
| GRP-HT441                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)<br>§ 115.126(4) | None                                      |
| GRP-HT441                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)<br>§ 115.126(4) | None                                      |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements             | Recordkeeping Requirements (30 TAC § 122.144)                | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| GRP-HTB451                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-HTB451                | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-HV124                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | None                                      |
| GRP-HV124                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C) | None                                      |
| GRP-HV125                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B) | 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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| GRP-HV125                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)                 | None                                      |
| GRP-HX411                 | EP                      | R5121-4       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(c)(1)<br>§ 115.122(c)(1)<br>§ 115.122(c)(1)(C)          | Any process vent containing one or more VOC or classes of VOC specified in §115.121(c)(1)(A)-(C), shall be controlled as per §115.122(c)(1).  | [G]§ 115.125<br>§ 115.126(2)                                    | § 115.126<br>§ 115.126(2)  | None                                      |
| LOADPP                    | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)<br>§ 115.126(4) | None                                      |
| LOADPP                    | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(C)<br>§ 115.127(c)(1)                             | A vent gas stream having a concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).   | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(C)<br>§ 115.126(4) | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)<br>§ 115.126(4) | None                                      |
| MSSLOADPP                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(c)(1)(B)<br>§ 115.127(c)(1)                             | A vent gas stream with a combined weight of the VOC or classes of compounds specified in § 115.121(c)(1)(B)-(C) of 100 lbs (45.4 kg), or less, in a continuous 24-hour period is exempt from § 115.121(c)(1). | [G]§ 115.125<br>§ 115.126(2)<br>§ 115.126(3)(B)                 | § 115.126<br>§ 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(B)                 | None                                      |
| MSSLOADPP                 | EP                      | R5121-5       | VOC       | 30 TAC Chapter                        | § 115.127(c)(1)(C)  | A vent gas stream having a  | [G]§ 115.125  | § 115.126  | None                                      |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|--|---|--|
|                           |                         |               |             | 115, Vent Gas Controls                | § 115.127(c)(1)   | concentration of the VOC specified in § 115.121(c)(1)(B) and (C) less than 30,000 ppmv is exempt from § 115.121(c)(1).  | § 115.126(2)<br>§ 115.126(3)(C)  | § 115.126(2)<br>§ 115.126(3)<br>§ 115.126(3)(C)   |  |
| PRO-MONVNTCB              | EP                      | 63FFFF-VNT02  | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2455(a)-Table 1.1.a.i<br>§ 63.2455(a)<br>§ 63.2455(b)<br>§ 63.2455(b)(1)<br>§ 63.982(c)<br>§ 63.982(c)(2)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.988(a)(1)<br>§ 63.988(a)(2)<br>§ 63.988(a)(3)<br>§ 63.988(b)(2)<br>§ 63.996(c)(1)<br>§ 63.996(c)(2)<br>§ 63.996(c)(2)(i)<br>§ 63.996(c)(3)<br>§ 63.996(c)(4)<br>§ 63.996(c)(5)<br>§ 63.996(c)(6)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by >98 percent by weight by venting emissions through a closed-vent system to any combination of control devices (except flare). | § 63.2450(g)<br>§ 63.2450(g)(1)<br>§ 63.2450(g)(2)<br>[G]§ 63.2450(g)(3)<br>§ 63.2450(g)(4)<br>§ 63.2450(k)(6)<br>§ 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.996(b)(1)<br>§ 63.996(b)(1)(i)<br>§ 63.996(b)(2)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(iii) | § 63.2450(k)(6)<br>§ 63.2525(g)<br>§ 63.2525(h)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.996(c)(2)(ii)<br>§ 63.998(a)(2)(ii)(B)(5)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(c)(1)<br>§ 63.998(c)(2)(iii)<br>§ 63.998(c)(3)(iii)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5) | § 63.2450(q)<br>§ 63.996(b)(2)<br>§ 63.996(c)(6)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>[G]§ 63.999(b)(3)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv) |
| PRO-MONVNTCB              | EP                      | 63FFFF-VNT03  | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2455(a)-Table 1.1.a.i<br>§ 63.2455(a)<br>§ 63.2455(b)<br>§ 63.2455(b)(1)<br>§ 63.982(c)<br>§ 63.982(c)(2)  | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by >98 percent by weight by venting emissions through a closed-vent system   | § 63.2450(g)<br>§ 63.2450(g)(1)<br>§ 63.2450(g)(2)<br>[G]§ 63.2450(g)(3)<br>§ 63.2450(g)(4)<br>§ 63.2450(k)(6)<br>§ 63.983(b)  | § 63.2450(k)(6)<br>§ 63.2525(g)<br>§ 63.2525(h)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.988(b)(1)<br>§ 63.988(c)  | § 63.2450(q)<br>§ 63.988(b)(1)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>§ 63.999(b)(5)   |

## 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><br>(30 TAC § 122.144)  | Reporting Requirements<br><br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|---|
|                           |                         |               |             |                                       | § 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.988(a)(1)<br>§ 63.988(a)(2)<br>§ 63.988(a)(3)<br>§ 63.988(c)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)   | to any combination of control devices (except flare).   | [G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.988(b)(1)<br>§ 63.996(b)(1)<br>§ 63.996(b)(1)(ii)<br>§ 63.996(d)(1)<br>§ 63.996(d)(2)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(iii)<br>*See Alternate Requirements | § 63.998(a)(2)(ii)(B)(5)<br>§ 63.998(a)(2)(ii)(B)(6)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>§ 63.998(c)(2)(iii)<br>§ 63.998(c)(3)(iii)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5)  | § 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv)<br>[G]§ 63.999(d)(1)<br>[G]§ 63.999(d)(2)   |
| PRO-MONVNTCC              | EP                      | 63FFFF-VNT04  | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2455(a)-Table 1.1.a.i<br>§ 63.2455(a)<br>§ 63.2455(b)<br>§ 63.2455(b)(1)<br>§ 63.982(c)<br>§ 63.982(c)(2)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.990(a)(1)<br>§ 63.990(a)(2)<br>§ 63.996(c)(1)<br>§ 63.996(c)(2)<br>§ 63.996(c)(2)(i)<br>§ 63.996(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions to an outlet process concentration <20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices (except flare). | § 63.2450(g)<br>§ 63.2450(g)(1)<br>§ 63.2450(g)(2)<br>[G]§ 63.2450(g)(3)<br>§ 63.2450(g)(4)<br>§ 63.2450(k)(6)<br>§ 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.990(c)<br>§ 63.990(c)(3)<br>§ 63.996(b)(1)                                      | § 63.2450(k)(6)<br>§ 63.2525(g)<br>§ 63.2525(h)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.990(c)<br>§ 63.996(c)(2)(ii)<br>§ 63.998(a)(2)(ii)(C)(3)<br>§ 63.998(a)(2)(ii)(C)(4)<br>§ 63.998(a)(2)(ii)(C)(5)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(c)(3)(i)<br>[G]§ 63.998(c)(3)(ii)<br>§ 63.998(c)(3)(iii) | § 63.2450(q)<br>§ 63.996(b)(2)<br>§ 63.996(c)(6)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(b)(3)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(ii)<br>§ 63.999(c)(6)(iv) |

## 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)   |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|--|---|--|
|                           |                         |               |             |                                       | § 63.996(c)(4)<br>§ 63.996(c)(5)<br>§ 63.996(c)(6)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)   |  | § 63.996(b)(1)(i)<br>§ 63.996(b)(2)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(iv)<br>§ 63.997(c)(3)(v)  | [G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5)  |  |
| PRO-MONVNTCF              | EP                      | 63FFFF-VNT01  | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2455(a)-Table 1.1.a.ii<br>§ 63.11(b)<br>§ 63.2455(a)<br>§ 63.2455(b)<br>§ 63.2455(b)(1)<br>§ 63.982(b)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.987(a)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.             | § 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.987(c)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(i)<br>§ 63.997(c)(3)(ii) | § 63.2450(f)(2)<br>§ 63.2450(f)(2)(i)<br>§ 63.2450(f)(2)(ii)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.987(c)<br>§ 63.998(a)(1)(ii)<br>§ 63.998(a)(1)(iii)(A)<br>§ 63.998(a)(1)(iii)(B)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5) | § 63.2450(f)(2)(ii)<br>§ 63.2450(q)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>§ 63.998(a)(1)(iii)(A)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(3)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv)<br>[G]§ 63.999(d)(1)<br>[G]§ 63.999(d)(2) |
| GRP-FLARE                 | EU                      | R1111-1       | 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   |
| GRP-FLARE                 | CD                      | 60A-1         | OPACITY     | 40 CFR Part 60, Subpart A             | § 60.18(b)<br>§ 60.18(c)(1)<br>§ 60.18(c)(2)<br>§ 60.18(c)(3)(ii)  | Flares shall comply with paragraphs (c)-(f) of § 60.18.  | § 60.18(d)<br>§ 60.18(f)(1)<br>§ 60.18(f)(2)<br>§ 60.18(f)(3)  | 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)  |
|---------------------------|-------------------------|---------------|-------------|--|---|--|--|---|---|
|                           |                         |               |             |  | § 60.18(c)(4)(i)<br>§ 60.18(c)(6)<br>§ 60.18(e)   |  | § 60.18(f)(4)  |   |   |
| GRP-FLARE                 | CD                      | 63A-1         | 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  |
| GRP-FUGDDD                | EU                      | 63FFFF-1      | 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 |
| GRP-CTOWER                | EU                      | 63FFFF-3      | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF                     | § 63.2490(a)-Table10<br>§ 63.104(a)<br>[G]§ 63.104(d)<br>§ 63.104(e)<br>§ 63.104(e)(1)<br>[G]§ 63.104(e)(2)<br>§ 63.2490(a)<br>§ 63.2490(b)<br>§ 63.2490(c)         | For each heat exchange system, as defined in §63.101, comply with the requirements of §63.104 and the requirements referenced therein except as specified in §63.2490.   | [G]§ 63.104(b)   | [G]§ 63.104(e)(2)<br>[G]§ 63.104(f)(1)  | [G]§ 63.104(f)(2)   |
| L-737                     | EU                      | R5211-1       | VOC         | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(3)(A)<br>§ 115.214(b)(1)(B)<br>§ 115.214(b)(1)(D)<br>§ 115.214(b)(1)(D)(i)   | Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt  | § 115.214(b)(1)(A)<br>§ 115.214(b)(1)(A)(i)<br>§ 115.215<br>§ 115.215(4)   | § 115.216<br>§ 115.216(2)<br>§ 115.216(3)(B)<br>§ 115.216(3)(D)   | None  |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name            | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-------------|--|--|--|--|--|--|
|                           |                         |               |             |  |  | from this division, except for the specified requirements.   |  |  |  |
| L-737                     | EU                      | 63FFFF-1      | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF                     | § 63.2475(a)-Table 5.1.b<br>§ 63.11(b)<br>§ 63.2475(a)<br>§ 63.982(b)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.987(a)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3) | For each Group ttransfer rack you must reduce emissions of total organic HAP by venting emissions through a closed-vent system to a flare.   | § 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.987(c)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(i) | § 63.2450(f)(2)<br>§ 63.2450(f)(2)(i)<br>§ 63.2450(f)(2)(ii)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.987(c)<br>§ 63.998(a)(1)(ii)<br>§ 63.998(a)(1)(iii)(A)<br>§ 63.998(a)(1)(iii)(B)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5) | § 63.2450(f)(2)(ii)<br>§ 63.2450(q)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>§ 63.998(a)(1)(iii)(A)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(3)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv)<br>§ 63.999(c)(7)<br>[G]§ 63.999(d)(1)<br>[G]§ 63.999(d)(2) |
| L-740                     | EU                      | R5211-1       | VOC         | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(b)(3)(A)<br>§ 115.214(b)(1)(B)<br>§ 115.214(b)(1)(D)<br>§ 115.214(b)(1)(D)(i)  | Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt from this division, except for the specified requirements. | § 115.214(b)(1)(A)<br>§ 115.214(b)(1)(A)(i)<br>§ 115.215<br>§ 115.215(4)   | § 115.216<br>§ 115.216(2)<br>§ 115.216(3)(B)<br>§ 115.216(3)(D)  | None   |
| L-740                     | EU                      | 63FFFF-1      | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF                     | § 63.2475(a)-Table 5.1.b<br>§ 63.11(b)<br>§ 63.2475(a)<br>§ 63.982(b)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)   | For each Group ttransfer rack you must reduce emissions of total organic HAP by venting emissions through a closed-vent system to a flare.   | § 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)  | § 63.2450(f)(2)<br>§ 63.2450(f)(2)(i)<br>§ 63.2450(f)(2)(ii)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.987(c)<br>§ 63.998(a)(1)(ii)<br>§ 63.998(a)(1)(iii)(A)<br>§ 63.998(a)(1)(iii)(B)  | § 63.2450(f)(2)(ii)<br>§ 63.2450(q)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>§ 63.998(a)(1)(iii)(A)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)  |

## 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)  |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|---|--|---|---|
|                           |                         |               |                |                                       | [G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.987(a)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)   |   | § 63.987(c)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(i)                  | [G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5) | [G]§ 63.999(c)(2)<br>§ 63.999(c)(3)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv)<br>§ 63.999(c)(7)<br>[G]§ 63.999(d)(1)<br>[G]§ 63.999(d)(2) |
| EG701                     | EU                      | 63ZZZZ-2      | 112(B)<br>HAPS | 40 CFR Part 63,<br>Subpart ZZZZ       | § 63.6602<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ   | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ   |
| P741B                     | EU                      | 63ZZZZ-2      | 112(B)<br>HAPS | 40 CFR Part 63,<br>Subpart ZZZZ       | § 63.6602<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ   | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ   |
| P741C                     | EU                      | 63ZZZZ-2      | 112(B)<br>HAPS | 40 CFR Part 63,<br>Subpart ZZZZ       | § 63.6602<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40                           | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ   | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ   |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                             |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|--|---|
|                           |                         |               |             |                                       | CFR Part 63, Subpart ZZZZ  |   |   |  |   |
| HT-171                    | EU                      | 63FFFF-TK1    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-Table4.1.b.i<br>§ 63.1062(a)<br>§ 63.1062(a)(1)<br>§ 63.1063(a)(1)(i)<br>§ 63.1063(a)(1)(i)(D)<br>§ 63.1063(a)(2)(i)<br>§ 63.1063(a)(2)(ii)<br>§ 63.1063(a)(2)(iii)<br>§ 63.1063(a)(2)(iv)<br>§ 63.1063(a)(2)(ix)<br>§ 63.1063(a)(2)(v)<br>§ 63.1063(a)(2)(vi)<br>§ 63.1063(a)(2)(viii)<br>§ 63.1063(a)(2)(viii)(B)<br>§ 63.1063(b)(1)<br>§ 63.1063(b)(2)<br>§ 63.1063(b)(3)<br>§ 63.1063(b)(4)<br>§ 63.1063(e)(1)<br>§ 63.1063(e)(2)<br>§ 63.2470(a) | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must comply with the requirements of Subpart WW of this part, except as specified in §63.2470. | § 63.1063(c)(1)<br>[G]§ 63.1063(c)(1)(i)<br>[G]§ 63.1063(d)(1)<br>§ 63.1063(d)(2) | § 63.1063(e)(2)<br>§ 63.1065<br>§ 63.1065(a)<br>[G]§ 63.1065(b)(1)<br>§ 63.1065(c)<br>§ 63.1065(d) | § 63.1066(b)(1)<br>§ 63.1066(b)(2)<br>§ 63.1066(b)(4)<br>§ 63.2450(q) |
| HT-601                    | EU                      | R5112-2       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)<br>§ 115.111(c)(2)<br>§ 115.112(c)(2)<br>§ 115.112(c)(2)(A)<br>§ 115.114(c)(1)(A)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).  | § 115.114(c)(1)(A)  | None   | § 115.114(c)(1)(B)  |
| HT-601                    | EU                      | 63FFFF-TK1    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-Table4.1.b.i<br>§ 63.1062(a)<br>§ 63.1062(a)(1)<br>§ 63.1063(a)(1)(i)   | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must   | § 63.1063(c)(1)<br>[G]§ 63.1063(c)(1)(i)<br>[G]§ 63.1063(d)(1)<br>§ 63.1063(d)(2) | § 63.1063(e)(2)<br>§ 63.1065<br>§ 63.1065(a)<br>[G]§ 63.1065(b)(1)<br>§ 63.1065(c)                 | § 63.1066(b)(1)<br>§ 63.1066(b)(2)<br>§ 63.1066(b)(4)<br>§ 63.2450(q) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                             |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|--|---|
|                           |                         |               |             |                                       | § 63.1063(a)(1)(i)(D)<br>§ 63.1063(a)(2)(i)<br>§ 63.1063(a)(2)(ii)<br>§ 63.1063(a)(2)(iii)<br>§ 63.1063(a)(2)(iv)<br>§ 63.1063(a)(2)(ix)<br>§ 63.1063(a)(2)(v)<br>§ 63.1063(a)(2)(vi)<br>§ 63.1063(a)(2)(viii)<br>§ 63.1063(a)(2)(viii)(B)<br>§ 63.1063(b)(1)<br>§ 63.1063(b)(2)<br>§ 63.1063(b)(3)<br>§ 63.1063(b)(4)<br>§ 63.1063(e)(1)<br>§ 63.1063(e)(2)<br>§ 63.2470(a) | comply with the requirements of Subpart WW of this part, except as specified in §63.2470.   |   | § 63.1065(d)   |   |
| HT-602                    | EU                      | R5112-2       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)<br>§ 115.111(c)(2)<br>§ 115.112(c)(2)<br>§ 115.112(c)(2)(A)<br>§ 115.114(c)(1)(A)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).  | § 115.114(c)(1)(A)  | None   | § 115.114(c)(1)(B)  |
| HT-602                    | EU                      | 63FFFF-TK1    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-<br>Table4.1.b.i<br>§ 63.1062(a)<br>§ 63.1062(a)(1)<br>§ 63.1063(a)(1)(i)<br>§ 63.1063(a)(1)(i)(D)<br>§ 63.1063(a)(2)(i)<br>§ 63.1063(a)(2)(ii)<br>§ 63.1063(a)(2)(iii)<br>§ 63.1063(a)(2)(iv)<br>§ 63.1063(a)(2)(ix)<br>§ 63.1063(a)(2)(v)<br>§ 63.1063(a)(2)(vi)  | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must comply with the requirements of Subpart WW of this part, except as specified in §63.2470. | § 63.1063(c)(1)<br>[G]§ 63.1063(c)(1)(i)<br>[G]§ 63.1063(d)(1)<br>§ 63.1063(d)(2) | § 63.1063(e)(2)<br>§ 63.1065<br>§ 63.1065(a)<br>[G]§ 63.1065(b)(1)<br>§ 63.1065(c)<br>§ 63.1065(d) | § 63.1066(b)(1)<br>§ 63.1066(b)(2)<br>§ 63.1066(b)(4)<br>§ 63.2450(q) |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                             |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|--|---|
|                           |                         |               |             |                                       | § 63.1063(a)(2)(viii)<br>§ 63.1063(a)(2)(viii)(B)<br>§ 63.1063(b)(1)<br>§ 63.1063(b)(2)<br>§ 63.1063(b)(3)<br>§ 63.1063(b)(4)<br>§ 63.1063(e)(1)<br>§ 63.1063(e)(2)<br>§ 63.2470(a)  |   |   |  |   |
| HT-606                    | EU                      | R5112-2       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)<br>§ 115.111(c)(2)<br>§ 115.112(c)(2)<br>§ 115.112(c)(2)(A)<br>§ 115.114(c)(1)(A)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).  | § 115.114(c)(1)(A)  | None   | § 115.114(c)(1)(B)  |
| HT-606                    | EU                      | 63FFFF-TK1    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-Table4.1.b.i<br>§ 63.1062(a)<br>§ 63.1062(a)(1)<br>§ 63.1063(a)(1)(i)<br>§ 63.1063(a)(1)(i)(D)<br>§ 63.1063(a)(2)(i)<br>§ 63.1063(a)(2)(ii)<br>§ 63.1063(a)(2)(iii)<br>§ 63.1063(a)(2)(iv)<br>§ 63.1063(a)(2)(ix)<br>§ 63.1063(a)(2)(v)<br>§ 63.1063(a)(2)(vi)<br>§ 63.1063(a)(2)(viii)<br>§ 63.1063(a)(2)(viii)(B)<br>§ 63.1063(b)(1)<br>§ 63.1063(b)(2)<br>§ 63.1063(b)(3)<br>§ 63.1063(b)(4)<br>§ 63.1063(e)(1)<br>§ 63.1063(e)(2) | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must comply with the requirements of Subpart WW of this part, except as specified in §63.2470. | § 63.1063(c)(1)<br>[G]§ 63.1063(c)(1)(i)<br>[G]§ 63.1063(d)(1)<br>§ 63.1063(d)(2) | § 63.1063(e)(2)<br>§ 63.1065<br>§ 63.1065(a)<br>[G]§ 63.1065(b)(1)<br>§ 63.1065(c)<br>§ 63.1065(d) | § 63.1066(b)(1)<br>§ 63.1066(b)(2)<br>§ 63.1066(b)(4)<br>§ 63.2450(q) |

## Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant   | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                             |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|---|--|---|
|                           |                         |               |             |                                       | § 63.2470(a)   |   |   |  |   |
| HT-735                    | EU                      | R5112-2       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)<br>§ 115.111(c)(2)<br>§ 115.112(c)(2)<br>§ 115.112(c)(2)(A)<br>§ 115.114(c)(1)(A)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).  | § 115.114(c)(1)(A)  | None   | § 115.114(c)(1)(B)  |
| HT-735                    | EU                      | 63FFFF-TK1    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-Table4.1.b.i<br>§ 63.1062(a)<br>§ 63.1062(a)(1)<br>§ 63.1063(a)(1)(i)<br>§ 63.1063(a)(1)(i)(D)<br>§ 63.1063(a)(2)(i)<br>§ 63.1063(a)(2)(ii)<br>§ 63.1063(a)(2)(iii)<br>§ 63.1063(a)(2)(iv)<br>§ 63.1063(a)(2)(ix)<br>§ 63.1063(a)(2)(v)<br>§ 63.1063(a)(2)(vi)<br>§ 63.1063(a)(2)(viii)<br>§ 63.1063(a)(2)(viii)(B)<br>§ 63.1063(b)(1)<br>§ 63.1063(b)(2)<br>§ 63.1063(b)(3)<br>§ 63.1063(b)(4)<br>§ 63.1063(e)(1)<br>§ 63.1063(e)(2)<br>§ 63.2470(a) | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you must comply with the requirements of Subpart WW of this part, except as specified in §63.2470. | § 63.1063(c)(1)<br>[G]§ 63.1063(c)(1)(i)<br>[G]§ 63.1063(d)(1)<br>§ 63.1063(d)(2) | § 63.1063(e)(2)<br>§ 63.1065<br>§ 63.1065(a)<br>[G]§ 63.1065(b)(1)<br>§ 63.1065(c)<br>§ 63.1065(d) | § 63.1066(b)(1)<br>§ 63.1066(b)(2)<br>§ 63.1066(b)(4)<br>§ 63.2450(q) |
| HT-801                    | EU                      | R5112-4       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the  | ** 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)  |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|--|--|--|
|                           |                         |               |             |                                       |  | appropriate control device specified in Table I(b).   |  |  |  |
| V-795                     | EU                      | R5112-5       | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(c)(1)  | Tanks shall not store VOC, other than crude oil or condensate, unless the required pressure is maintained, or they are equipped with the appropriate control device specified in Table I(b).  | None   | None   | None   |
| V-795                     | EU                      | 63FFFF-TK2    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2470(a)-Table 4.1.b.iii<br>§ 63.11(b)<br>§ 63.2450(b)<br>§ 63.2470(a)<br>§ 63.2470(d)<br>§ 63.982(b)<br>§ 63.983(a)(1)<br>§ 63.983(a)(2)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(i)<br>[G]§ 63.983(d)(2)<br>§ 63.983(d)(3)<br>§ 63.987(a)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3) | For each Group 1 storage tank for which the maximum true vapor pressure of total HAP at the storage temperature is < 76.6 kilopascals, you may reduce total organic HAP emissions by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v)<br>§ 63.115(d)(3)(iii)<br>§ 63.2470(c)(1)<br>§ 63.983(b)<br>[G]§ 63.983(b)(1)<br>[G]§ 63.983(b)(2)<br>[G]§ 63.983(b)(3)<br>[G]§ 63.983(c)(1)<br>§ 63.983(c)(2)<br>§ 63.983(c)(3)<br>§ 63.983(d)(1)<br>§ 63.983(d)(1)(ii)<br>§ 63.987(c)<br>§ 63.997(b)<br>§ 63.997(b)(1)<br>§ 63.997(c)(2)<br>§ 63.997(c)(3)<br>§ 63.997(c)(3)(i)<br>§ 63.997(c)(3)(ii) | § 63.2450(f)(2)<br>§ 63.2450(f)(2)(i)<br>§ 63.2450(f)(2)(ii)<br>§ 63.2470(c)(1)<br>§ 63.983(b)<br>§ 63.983(b)<br>[G]§ 63.983(d)(2)<br>§ 63.987(c)<br>§ 63.998(a)(1)(ii)<br>§ 63.998(a)(1)(iii)(A)<br>§ 63.998(a)(1)(iii)(B)<br>[G]§ 63.998(b)(1)<br>[G]§ 63.998(b)(2)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.998(b)(5)<br>[G]§ 63.998(c)(1)<br>[G]§ 63.998(d)(1)<br>§ 63.998(d)(3)(i)<br>§ 63.998(d)(3)(ii)<br>§ 63.998(d)(5) | § 63.2450(f)(2)(ii)<br>§ 63.2450(g)<br>§ 63.2470(d)<br>§ 63.997(b)(1)<br>§ 63.997(c)(3)<br>§ 63.998(a)(1)(iii)(A)<br>[G]§ 63.998(b)(3)<br>[G]§ 63.999(a)(1)<br>§ 63.999(b)(5)<br>§ 63.999(c)(1)<br>[G]§ 63.999(c)(2)<br>§ 63.999(c)(3)<br>§ 63.999(c)(6)<br>[G]§ 63.999(c)(6)(i)<br>§ 63.999(c)(6)(iv)<br>[G]§ 63.999(d)(1)<br>[G]§ 63.999(d)(2) |

**Additional Monitoring Requirements**

**Periodic Monitoring Summary..... 52**

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>   |                           |
|---|---------------------------|
| ID No.: GRP-BOILER  |                           |
| Control Device ID No.: N/A  | Control Device Type: N/A  |
| <b>Applicable Regulatory Requirement</b>  |                           |
| Name: 30 TAC Chapter 112, Sulfur Compounds  | SOP Index No.: REG2-1     |
| Pollutant: SO <sub>2</sub>  | Main Standard: § 112.9(a) |
| <b>Monitoring Information</b>   |                           |
| Indicator: Sulfur Content of Fuel   |                           |
| Minimum Frequency: Quarterly and within 24 hours of any fuel change   |                           |
| Averaging Period: n/a*  |                           |
| Deviation Limit: Deviation occurs when Fuel Sulfur Content > 0.8% Sulfur  |                           |
| Periodic Monitoring Text: Measure and record the sulfur content of the fuel. Any monitoring data above the deviation limit shall be considered and reported as a deviation. |                           |

\*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

## Periodic Monitoring Summary

| <b>Unit/Group/Process Information</b>  |                                |
|--|--------------------------------|
| ID No.: HT-801   |                                |
| 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.: R5112-4         |
| Pollutant: VOC   | Main Standard: § 115.112(c)(1) |
| <b>Monitoring Information</b>  |                                |
| Indicator: Structural Integrity of the Pipe  |                                |
| Minimum Frequency: Emptied and degassed  |                                |
| Averaging Period: n/a  |                                |
| Deviation Limit: Deviation occurs if repairs to the fill pipe are not completed prior to refilling the storage vessel.   |                                |
| Periodic Monitoring Text: Inspect to determine the structural integrity of the fill pipe and record each time the storage vessel is emptied and degassed. 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.: HT-801   |                                |
| 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.: R5112-4         |
| Pollutant: VOC   | Main Standard: § 115.112(c)(1) |
| <b>Monitoring Information</b>  |                                |
| Indicator: Liquid Level  |                                |
| Minimum Frequency: Once per day  |                                |
| Averaging Period: n/a  |                                |
| Deviation Limit: Deviation occurs when the liquid level falls below the bottom of the open end of the fill pipe.   |                                |
| Periodic Monitoring Text: Regardless of the location of the fill pipe, the fill pipe must be submerged at all times. Monitor and record the depth of the liquid using an automated/remote sounding device or liquid level sensing alarm/monitor. It shall be considered and reported as a deviation any time the liquid level falls below the fill pipe level. |                                |

**Permit Shield**

**Permit Shield .....56**

## 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 |                                       |  |
| GRP-BOILER         | HH-731A, HH-731B      | 40 CFR Part 60, Subpart Dc            | Boiler was constructed before June 9,1989.   |
| MAINT-BOILER       | N/A                   | 40 CFR Part 60, Subpart D             | Maximum heat input is <250 MM Btu/hr   |
| MAINT-BOILER       | N/A                   | 40 CFR Part 60, Subpart Db            | Constructed before June 19, 1984 and had not been modified or reconstructed                  |
| MAINT-BOILER       | N/A                   | 40 CFR Part 60, Subpart Dc            | Constructed before June 9, 1989 and had not been modified or reconstructed                   |
| GRP-CTOWER         | CT-711, CT-711A       | 40 CFR Part 63, Subpart Q             | No chromium-based water treatment chemicals used in operation on or after September 8, 1994. |
| PCV1178            | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs emitted from this source.                       |
| PCV139             | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs emitted from this source.                       |
| PCV143             | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs emitted from this source.                       |
| PCV151             | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs emitted from this source.                       |
| PCV173             | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs emitted from this source.                       |
| PCV191             | N/A                   | 30 TAC Chapter 115, Vent Gas Controls | There are no specific VOC or classes of VOCs   |

## 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 |                                     |  |
|                    |                       |                                     | emitted from this source.  |
| PRO-NOTDDD         | N/A                   | 40 CFR Part 60, Subpart DDD         | Process was constructed before September 30, 1987.   |
| HYDROENG           | N/A                   | 40 CFR Part 60, Subpart JJJJ        | Constructed before July 1, 2007.   |
| HYDROENG           | N/A                   | 40 CFR Part 63, Subpart ZZZZ        | A non-road engine. This engine is portable or transportable and the engine will be on site for less than 12 months per year. |
| HT-171             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Content of tank has a True Vapor Pressure of less than 1.5 psia.   |
| HT-171             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-601             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-602             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-606             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-608             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Content of tank has a True Vapor Pressure of less than 1.5 psia.   |
| HT-608             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-735             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.   |
| HT-793             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Tank capacity is less than 1000 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 |                                     |  |
| HT-793             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank capacity is less than 40,000 gallons.                       |
| HT-794             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Tank capacity is less than 1000 gallons.                         |
| HT-794             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank capacity is less than 40,000 gallons.                       |
| HT-797             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Tank capacity less than 1,000 gallons.                           |
| HT-797             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank has a capacity of less than 40,000 gallons.                 |
| HT-798             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Tank capacity less than 1,000 gallons.                           |
| HT-798             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank has a capacity of less than 40,000 gallons.                 |
| HT-799             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Tank capacity less than 1,000 gallons.                           |
| HT-799             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank has a capacity of less than 40,000 gallons.                 |
| HT-801             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank has a capacity of less than 40,000 gallons                  |
| HV-305             | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Content of tank has a True Vapor Pressure of less than 1.5 psia. |
| HV-305             | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.                           |
| V-795              | N/A                   | 40 CFR Part 60, Subpart Ka          | Tank does not store petroleum liquids.                           |

### 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            |                                      |   |
| GRP-WATER          | PW-1, SP-1, SSP-A, SSP-B, WWTP-2 | 30 TAC Chapter 115, Water Separation | Separates less than 200 gallons a day of materials containing VOCs. |

**New Source Review Authorization References**

**New Source Review Authorization References ..... 61**

**New Source Review Authorization References by Emission Unit..... 62**

## New Source Review Authorization References

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

| <b>Prevention of Significant Deterioration (PSD) Permits</b>  |                              |
|---|------------------------------|
| PSD Permit No.: PSDTX1206   | Issuance Date: 08/02/2012    |
| <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.: 18836  | Issuance Date: 08/02/2012    |
| <b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>  |                              |
| Number: 106.183   | Version No./Date: 09/04/2000 |
| Number: 106.261   | Version No./Date: 11/01/2003 |
| Number: 106.262   | Version No./Date: 11/01/2003 |
| Number: 106.263   | Version No./Date: 11/01/2001 |
| Number: 106.265   | Version No./Date: 09/04/2000 |
| Number: 106.393   | Version No./Date: 09/04/2000 |
| Number: 106.433   | Version No./Date: 03/14/1997 |
| Number: 106.451   | Version No./Date: 03/14/1997 |
| Number: 106.452   | Version No./Date: 03/14/1997 |
| Number: 106.454   | Version No./Date: 11/01/2001 |
| Number: 106.511   | Version No./Date: 03/14/1997 |
| Number: 118   | Version No./Date: 08/30/1988 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| 1F-456                    | 1F-456 FILTER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-433A                   | 1BL-431A PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-433B                   | 1BL-431B PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-433C                   | 1BL-431C PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-443A                   | 1T-441A PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443B                   | 1T-441B PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443C                   | 1T-441C PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443E                   | 1T-441E PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443F                   | 1T-441F PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443G                   | 1T-441G PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443H                   | 1T-441H PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443I                   | 1T-441I PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443J                   | 1T-441J PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443K                   | 1T-441K PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 1S-443L                   | 1T-441L PRODUCT SILO FILTER    | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| 1S-454                    | 1B-452 BLOWER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-455A                   | 1T-451A SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1S-455B                   | 1T-451B SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 1V-411                    | 1V-411 CARBON ADSORBER         | 18836, PSDTX1206   |
| 2B-490                    | POWDER TRANSFER - LINE 2       | 18836, PSDTX1206   |
| 2F-456                    | 2F-456 FILTER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-433A                   | 2BL-431A PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-433B                   | 2BL-431B PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-433C                   | 2BL-431C PELLET BLENDER FILTER | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-443A                   | 2T-441A PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 2S-443B                   | 2T-441B PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 2S-443C                   | 2T-441C PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 2S-443D                   | 2T-441D PRODUCT SILO FILTER    | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| 2S-443E                   | 2T-441E PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 2S-443F                   | 2T-441F PRODUCT SILO FILTER    | 18836, PSDTX1206   |
| 2S-454                    | 2B-452 BLOWER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-455A                   | 2T-451A SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2S-455B                   | 2T-451B SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 2V-411                    | 2V-411 CARBON ADSORBER         | 18836, PSDTX1206   |
| 3B-415                    | 3B-415 ADDITIVE EXTRACTOR FAN  | 18836, PSDTX1206   |
| 3BL-431A                  | 3BL-431A PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3BL-431B                  | 3BL-431B PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3BL-431C                  | 3BL-431C PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3BL-431D                  | 3BL-431D PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3F-456                    | 3F-456 FILTER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| 3S-455A                   | 3T-451A SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3S-455B                   | 3T-451B SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3S-455C                   | 3T-451C SILO FILTER VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 3V-411                    | 3V-411 CARBON ADSORBER         | 18836, PSDTX1206   |
| 4BL-431A                  | 4BL-431A PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 4BL-431B                  | 4BL-431B PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 4BL-431C                  | 4BL-431C PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 4BL-431E                  | 4BL-431E PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 4BL-431F                  | 4BL-431F PELLET BLENDER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| 4F-456                    | 4F-456 FILTER VENT             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| ANALYZER1                 | POWDER SYSTEM 1 ANALYZER VENT  | 18836, PSDTX1206   |
| ANALYZER2                 | POWDER SYSTEM 2 ANALYZER VENT  | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| ANALYZER3A                | POWD. SYST.3A ANALYZER VENT    | 18836, PSDTX1206   |
| ANALYZER3B                | POWD. SYST. 3B ANALYZER VENT   | 18836, PSDTX1206   |
| B-415                     | B-415 ADDITIVE EXTRACTOR FAN   | 18836, PSDTX1206   |
| CB-1                      | COMPOUNDING BUILDING 1         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| CB-2                      | COMPOUNDING BUILDING 2         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| CB-3                      | COMPOUNDING BUILDING 3         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| CD1                       | TOLUENE DRY. CLOSED DRAIN VENT | 18836, PSDTX1206   |
| CD2                       | B1 DRYERS CLOSED DRAIN VENT    | 18836, PSDTX1206   |
| CD3                       | B2 DRYERS CLOSED DRAIN VENT    | 18836, PSDTX1206   |
| CD4                       | HEX. ADSORB. CLOSED DRAIN VENT | 18836, PSDTX1206   |
| CD5                       | REG GAS DRUM CLOSED DRAIN VENT | 18836, PSDTX1206   |
| CD6                       | COMP. DRAIN CLOSED DRAIN VENT  | 18836, PSDTX1206   |
| CT-711A                   | COOLING TOWER NO. 2            | 18836, PSDTX1206   |
| CT-711                    | COOLING TOWER NO. 1            | 18836, PSDTX1206   |
| E-561                     | ETHYLENE RELIEF HEATER         | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| EG701                     | EMERGENCY GENERATOR            | 18836, PSDTX1206, 106.511/03/14/1997                     |
| F-486                     | DUST FILTER                    | 18836, PSDTX1206   |
| FLAREPROC                 | FACILITY FLARE-PROCESS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| FLARE-TIP                 | FACILITY FLARE-PILOT           | 18836, PSDTX1206   |
| FUGITIVE                  | PROCESS FUGITIVES              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| GCVENTS                   | GAS CHROMATOGRAPH VENTS        | 18836, PSDTX1206   |
| HCV202                    | T-202 BUTENE TANK              | 18836, PSDTX1206   |
| HCV210                    | 1R-231A REACTOR                | 18836, PSDTX1206   |
| HCV220                    | 1R-231B REACTOR                | 18836, PSDTX1206   |
| HCV230                    | 2R-231A REACTOR                | 18836, PSDTX1206   |
| HCV240                    | 2R-231B REACTOR                | 18836, PSDTX1206   |
| HH-731A                   | BOILER A                       | 18836, PSDTX1206   |
| HH-731B                   | BOILER B                       | 18836, PSDTX1206   |
| HST-101                   | CAT. PREP. BACKUP CONDENSER    | 18836, PSDTX1206   |
| HT-171                    | TOLUENE TANK                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| HT-601                    | SOLVENT TANK                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| HT-602                    | SOLVENT TANK                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| HT-606                    | SOLVENT TANK                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| HT-608                    | SEAL OIL TANK                  | 18836, PSDTX1206   |
| HT-735                    | SOLVENT TANK                   | 18836, PSDTX1206   |
| HT-793                    | DIESEL FUEL TANK               | 18836, PSDTX1206   |
| HT-794                    | DIESEL FUEL TANK               | 18836, PSDTX1206   |
| HT-797                    | DIESEL FUEL TANK               | 18836, PSDTX1206   |
| HT-798                    | DIESEL FUEL TANK               | 18836, PSDTX1206   |
| HT-799                    | GASOLINE TANK                  | 18836, PSDTX1206   |
| HT-801                    | SLOP OIL TANK                  | 18836, PSDTX1206   |
| HV10                      | COMON. UNLOAD. COMPRESSOR      | 18836, PSDTX1206   |
| HV11                      | COMON. DRYER 5 HAND VALVE      | 18836, PSDTX1206   |
| HV12                      | COMON. DRYER 6 HAND VALVE      | 18836, PSDTX1206   |
| HV13                      | COMON. PUMP 3 HAND VALVE       | 18836, PSDTX1206   |
| HV14                      | COMON. PUMP 4 HAND VALVE       | 18836, PSDTX1206   |
| HV15                      | COMON. PUMP 5 HAND VALVE       | 18836, PSDTX1206   |
| HV16                      | ETHYLENE FILTER 2 HAND VALVE   | 18836, PSDTX1206   |
| HV17                      | ETHYLENE FILTER 3 HAND VALVE   | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| HV1                       | ETHYLENE FILTER 1 HAND VALVE   | 18836, PSDTX1206   |
| HV2                       | COMON. DRYER 1 HAND VALVE      | 18836, PSDTX1206   |
| HV-305                    | ALCOHOL FEED TANK              | 18836, PSDTX1206   |
| HV3                       | COMON. DRYER 2 HAND VALVE      | 18836, PSDTX1206   |
| HV4                       | COMON. DRYER 3 HAND VALVE      | 18836, PSDTX1206   |
| HV5                       | COMON. DRYER 4 HAND VALVE      | 18836, PSDTX1206   |
| HV6                       | COMON. PUMP 1 HAND VALVE       | 18836, PSDTX1206   |
| HV7                       | COMON. PUMP 2 HAND VALVE       | 18836, PSDTX1206   |
| HV8                       | BUTENE SURGE TANK HAND VALVE   | 18836, PSDTX1206   |
| HV9                       | C2 METERING STATION            | 18836, PSDTX1206   |
| HX-411                    | EXTRUDER BACKUP CARB. ADSORB.  | 18836, PSDTX1206   |
| HYDROENG                  | ENGINE FOR HYDROBLASTING       | 106.451/03/14/1997, 106.511/03/14/1997                                       |
| L-737                     | WAX LOADING                    | 18836, PSDTX1206   |
| L-740                     | PROCESS OIL LOADING            | 18836, PSDTX1206   |
| LOADPP                    | LOADING POLYETHYLENE POWDER    | 18836, PSDTX1206   |
| LOADRC1                   | RAILCAR LOAD 1                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| LOADRC2                   | RAILCAR LOAD 2                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| LOADRC31                  | RAILCAR LOAD 1 - LINE 3        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| LOADRC32                  | RAILCAR LOAD 2 - LINE 3        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| LOADRC33                  | RAILCAR LOAD 3 - LINE 3        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| LOADRC3                   | RAILCAR LOAD 3                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| LOADRC4                   | RAILCAR LOAD 4                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| MAINT-BOILER              | MAINTENANCE BOILER             | 106.183/09/04/2000   |
| MSSLOADPP                 | LOADING POLYETHYLENE POWDER    | 18836, PSDTX1206   |
| P741B                     | FIREWATER PUMP                 | 18836, PSDTX1206, 106.511/03/14/1997   |
| P741C                     | FIREWATER PUMP                 | 18836, PSDTX1206, 106.511/03/14/1997   |
| PCV1091                   | CATALYST PREP. CONDENSER       | 18836, PSDTX1206   |
| PCV113                    | ATE SYSTEM PCV                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| PCV1178                   | MIXED ALCOHOL TANK             | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PCV139                    | WASH HEXANE REFLUX DRUM        | 18836, PSDTX1206   |
| PCV1433                   | V-123A BEM-DRUM PCV            | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PCV143                    | HEAT TRANS. FLUID SURGE DRUM   | 18836, PSDTX1206   |
| PCV1446                   | DEAC TRUCK UNLOADING           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PCV151                    | MIXED ALCOHOL MEASURING POT    | 18836, PSDTX1206   |
| PCV173                    | V-130 ALKYL DRUM EADC          | 18836, PSDTX1206   |
| PCV191                    | MIXED ALCOHOL DRUM             | 18836, PSDTX1206   |
| PCV231                    | METHANOL SURGE DRUM            | 18836, PSDTX1206   |
| PCV2336A                  | REACTOR 1 - LINE 3             | 18836, PSDTX1206   |
| PCV268A                   | FIRST VENT CONDENSER           | 18836, PSDTX1206   |
| PCV285A                   | SECOND VENT CONDENSER          | 18836, PSDTX1206   |
| PCV3033B                  | DRYER CARRIER GAS-LINE 3       | 18836, PSDTX1206   |
| PCV3051                   | CENTRIFUGE VENT DRUM 1         | 18836, PSDTX1206   |
| PCV3081                   | CENTRIFUGE VENT DRUM 2         | 18836, PSDTX1206   |
| PCV330                    | CENTRIFUGE DRUM 3              | 18836, PSDTX1206   |
| PCV379                    | DRYER CARRIER GAS - LINE 1     | 18836, PSDTX1206   |
| PCV388                    | DRYER CARRIER GAS - LINE 2     | 18836, PSDTX1206   |

## New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| PCV402B                   | POWDER TRANSFER 1              | 18836, PSDTX1206                |
| PCV4048                   | POWDER TRANSFER - LINE 1       | 18836, PSDTX1206                |
| PCV404                    | POWDER TRANSFER 1              | 18836, PSDTX1206                |
| PCV4120                   | POWDER TRANSFER B - LINE 3     | 18836, PSDTX1206                |
| PCV4128                   | POWDER TRANSFER A-LINE 3       | 18836, PSDTX1206                |
| PCV420B                   | POWDER TRANSFER 2              | 18836, PSDTX1206                |
| PCV422                    | POWDER TRANSFER 2              | 18836, PSDTX1206                |
| PCV4417                   | 3V-415 PELLETIZER HO TANK      | 18836, PSDTX1206                |
| PCV4659                   | B-463A BAGGER BLOWER PCV       | 18836, PSDTX1206                |
| PCV4660                   | B-463B BAGGER BLOWER PCV       | 18836, PSDTX1206                |
| PCV501B                   | CRUDE HEXANE STORE/UNLOAD      | 18836, PSDTX1206                |
| PCV5288                   | B1 COLUMN ACCUMULATOR          | 18836, PSDTX1206                |
| PCV544                    | REGEN. GAS KO DRUM             | 18836, PSDTX1206                |
| PCV591B                   | REGENERATION GAS SYSTEM        | 18836, PSDTX1206                |
| PCV606A                   | PURE B2 TANK                   | 18836, PSDTX1206                |
| PCV6088                   | WAX TANK STORE/LOAD            | 18836, PSDTX1206                |
| PCV703                    | FUEL GAS KO DRUM               | 18836, PSDTX1206                |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description                  | New Source Review Authorization |
|---------------------------|---|---------------------------------|
| PCV7052                   | SEAL OIL DRUM                                   | 18836, PSDTX1206                |
| PCV726                    | SEAL OIL DRUM                                   | 18836, PSDTX1206                |
| PRO-MONVNTB2              | MON PROCESS GRP 2 BATCH VENTS                   | 18836, PSDTX1206                |
| PRO-MONVNTCB              | MON PROCESS VENTS CONTINUOUS - GRP 1 TO BLR     | 18836, PSDTX1206                |
| PRO-MONVNTCC              | MON PROCESS VENTS CONTINUOUS - GRP 1 TO CARB/AB | 18836, PSDTX1206                |
| PRO-MONVNTCF              | MON PROCESS VENTS CONTINUOUS - GRP 1 TO FLARE   | 18836, PSDTX1206                |
| PRO-MONVNTE               | MON PROCESS EMERGENCY VENTS                     | 18836, PSDTX1206                |
| PRO-NOTDDD                | FAC. NOT SUBJECT TO NSPS DDD                    | 18836, PSDTX1206                |
| PSV102                    | V-141 G COMPONENT TANK                          | 18836, PSDTX1206                |
| PSV104                    | V-151 H COMPONENT TANK                          | 18836, PSDTX1206                |
| PSV1065                   | WASH HEXANE PREHEATER                           | 18836, PSDTX1206                |
| PSV1069                   | V-107F CATALYST DRUM                            | 18836, PSDTX1206                |
| PSV1071                   | V-108C CATALYST MEASURING POT                   | 18836, PSDTX1206                |
| PSV1073                   | V-109E CATALYST DRUM                            | 18836, PSDTX1206                |
| PSV1077                   | V-109F CATALYST DRUM                            | 18836, PSDTX1206                |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV110                    | TOLUENE DRYER                  | 18836, PSDTX1206   |
| PSV113                    | HEXANE FILTER                  | 18836, PSDTX1206   |
| PSV114                    | V-123A BEM DRUM                | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV115                    | V-121 ATE DRUM                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV116                    | V-122 ATE MEASURING POT        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV1174A                  | V-123C DILUTE ATE DRUM         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV1174B                  | V-123C DILUTE ATE DRUM         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV1182                   | WASH HEXANE REFLUX DRUM        | 18836, PSDTX1206   |
| PSV1184                   | RESIDUE TANK                   | 18836, PSDTX1206   |
| PSV120                    | V-123B DILUTE ATE DRUM         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV124                    | E-101 PRIM. CAT. REAC. COND.   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV126                    | V-101 H COMPONENT MEAS. POT    | 18836, PSDTX1206   |
| PSV133                    | WASH HEXANE ADSORBER           | 18836, PSDTX1206   |
| PSV142                    | SECONDARY CATALYTIC REACTOR    | 18836, PSDTX1206   |
| PSV1435                   | TPT TANK                       | 18836, PSDTX1206   |
| PSV143                    | SECONDARY CATALYTIC REACTOR    | 18836, PSDTX1206   |
| PSV1442                   | V-196 DEAC TANK                | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV145                    | MIXED ALCOHOL TANK             | 18836, PSDTX1206   |
| PSV1462                   | RESIDUE TANK                   | 18836, PSDTX1206   |
| PSV148                    | V-107A CATALYST DRUM           | 18836, PSDTX1206   |
| PSV150                    | V-107B CATALYST DRUM           | 18836, PSDTX1206   |
| PSV152                    | V-109A CATALYST DRUM           | 18836, PSDTX1206   |
| PSV154                    | V-109B CATALYST DRUM           | 18836, PSDTX1206   |
| PSV156                    | V-108A CATALYST MEASURING POT  | 18836, PSDTX1206   |
| PSV172                    | V-107E CATALYST DRUM           | 18836, PSDTX1206   |
| PSV178                    | E-191 CAT. PREP. VENT COND.    | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV184                    | V-191 CATALYST PREP. DRUM      | 18836, PSDTX1206   |
| PSV191                    | WASH HEXANE ADSORBER           | 18836, PSDTX1206   |
| PSV2006                   | REACTOR 2 - LINE 3             | 18836, PSDTX1206   |
| PSV200                    | COMPRESSOR 3 AFTER CHILLER     | 18836, PSDTX1206   |
| PSV2026                   | 3V-235B KILLING AGENT DRUM     | 18836, PSDTX1206   |
| PSV2028                   | A-201C ETHYLENE DRYER          | 18836, PSDTX1206   |
| PSV2029                   | A-201D ETHYLENE DRYER          | 18836, PSDTX1206   |
| PSV202                    | REACTOR 1 - LINE 3 FLASH DRUM  | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description  | New Source Review Authorization                          |
|---------------------------|---------------------------------|--|
| PSV2033                   | A-521C B1 DRYER                 | 18836, PSDTX1206   |
| PSV2038                   | A-521D B1 DRYER                 | 18836, PSDTX1206   |
| PSV2045                   | 3A-212A COMONOMER DRYER         | 18836, PSDTX1206   |
| PSV2059                   | 3A-212B COMONOMER DRYER         | 18836, PSDTX1206   |
| PSV2066                   | REACTOR 2 - LINE 3 FLASH DRUM   | 18836, PSDTX1206   |
| PSV2078                   | REACTOR 2 - LINE 3 PURGE COOLER | 18836, PSDTX1206   |
| PSV2079                   | REACTOR 2-LINE 3 PURGE DRUM     | 18836, PSDTX1206   |
| PSV2162                   | HEAT TRANSFER FLUID DRUM        | 18836, PSDTX1206   |
| PSV2168                   | SECONDARY CATALYST REACTOR      | 18836, PSDTX1206   |
| PSV2173                   | V-109D CATALYST DRUM            | 18836, PSDTX1206   |
| PSV2184                   | V-107D CATALYST DRUM            | 18836, PSDTX1206   |
| PSV2185                   | V-107C CATALYST DRUM            | 18836, PSDTX1206   |
| PSV2186                   | V-109C CATALYST DRUM            | 18836, PSDTX1206   |
| PSV2187                   | HEAT TRANSFER FLUID DRUM        | 18836, PSDTX1206   |
| PSV2189                   | E-173 HEAT TRANS. FLUID HEATER  | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2190                   | E-172 HEAT TRANS. FLUID HEATER  | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2192                   | V-108B CATALYST MEASURING POT   | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV2193                   | V-130ALKYL DRUM EADC           | 18836, PSDTX1206   |
| PSV2195                   | MIXES ALCOHOL DRUM             | 18836, PSDTX1206   |
| PSV2197                   | MIXED ALCOHOL DRYER            | 18836, PSDTX1206   |
| PSV2198                   | MIXED ALCOHOL DRYER            | 18836, PSDTX1206   |
| PSV2199                   | MIXED ALCOHOL MEASURING POT    | 18836, PSDTX1206   |
| PSV2201                   | COMONOMER TANKS T-201/202      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2204                   | COMONOMER TANKS T-201/202      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2206A                  | K-202 COMONOMER COMPRESSOR     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2213                   | METHANOL SURGE DRUM            | 18836, PSDTX1206   |
| PSV2214                   | COMONOMER TANK T-201/202       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2215                   | COMONOMER TANKS T-201/202      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2220                   | 3E-204 COMPRESSOR AFTER CHILL  | 18836, PSDTX1206   |
| PSV2222                   | 1A-212A COMONOMER DRYER        | 18836, PSDTX1206   |
| PSV2223                   | 1A-212B COMONOMER DRYER        | 18836, PSDTX1206   |
| PSV2224                   | 2A-212A COMONOMER DRYER        | 18836, PSDTX1206   |
| PSV2225                   | 2A-212B COMONOMER DRYER        | 18836, PSDTX1206   |
| PSV2226                   | 1K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV2236                   | A-521A B1 DRYER                | 18836, PSDTX1206   |
| PSV2237                   | A-521B B1 DRYER                | 18836, PSDTX1206   |
| PSV2239                   | A-523A B1 DRYER                | 18836, PSDTX1206   |
| PSV2240                   | A-523B B1 DRYER                | 18836, PSDTX1206   |
| PSV2243                   | REACTOR 1-LINE 1               | 18836, PSDTX1206   |
| PSV2244                   | REACTOR1-LINE 1                | 18836, PSDTX1206   |
| PSV2245                   | 1V-235A KILLING AGENT DRUM     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2246                   | REACTOR 2 - LINE 1             | 18836, PSDTX1206   |
| PSV2247                   | 1V-235B KILLING AGENT DRUM     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2248                   | REACTOR 1-LINE1 FLASH DRUM     | 18836, PSDTX1206   |
| PSV2250                   | REACTOR 2 -LINE 1              | 18836, PSDTX1206   |
| PSV2251                   | 2K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |
| PSV2254                   | REACTOR 1 - LINE 2             | 18836, PSDTX1206   |
| PSV2255                   | REACTOR 1-LINE2                | 18836, PSDTX1206   |
| PSV2256                   | 2V-235A KILLING AGENT DRUM     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2258                   | 2V-235B KILLING AGENT DRUM     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2259                   | REACTOR 1- LINE 2 FLASH DRUM   | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV2261                   | REACTOR 2 - LINE 2             | 18836, PSDTX1206   |
| PSV2262                   | REACTOR 2-LINE 1 FLASH DRUM    | 18836, PSDTX1206   |
| PSV2263                   | REACTOR 2-LINE 2 FLASH DRUM    | 18836, PSDTX1206   |
| PSV2265                   | 1E-231A 1ST VENT CONDENSER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2269                   | COMPRESSOR 1 SUCTION DRUM      | 18836, PSDTX1206   |
| PSV226                    | REACTOR 1-LINE 3 CONDENSER     | 18836, PSDTX1206   |
| PSV2271                   | 1E-204A/B COMPR. AFTER CHILL   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2272                   | COMPRESSOR 1 DISCHARGE DRUM    | 18836, PSDTX1206   |
| PSV2273                   | COMPRESSOR 1 BEFORE COOLER     | 18836, PSDTX1206   |
| PSV2276                   | IV-202 DISCHARGE BOTTLE        | 18836, PSDTX1206   |
| PSV2277                   | REACTOR 1-LINE 3               | 18836, PSDTX1206   |
| PSV2278                   | 1E-233A/B PURGE GAS COOLER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2279                   | PURGE GAS KO DRUM              | 18836, PSDTX1206   |
| PSV2282                   | 2E-231A 1ST VENT CONDENSER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2286                   | COMPRESSOR 2 SUCTION DRUM      | 18836, PSDTX1206   |
| PSV2288                   | 2E-204A/B COMPR. AFTER CHILL   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2290                   | 2V-202 DISCHARGE BOTTLE        | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV2291                   | COMPRESSOR 2 BEFORE COOLER     | 18836, PSDTX1206   |
| PSV2294                   | COMPRESSOR 2 DISCHARGE DRUM    | 18836, PSDTX1206   |
| PSV2295                   | 2E-233A/B PURGE GAS COOLER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2296                   | PURGE GAS KO DRUM              | 18836, PSDTX1206   |
| PSV2298                   | 1K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |
| PSV2299                   | 2K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |
| PSV2305                   | 3V-235A KILLING AGENT DRUM     | 18836, PSDTX1206   |
| PSV2311                   | 1E-231B 2ND VENT CONDENSER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2312                   | 2E-231B 2ND VENT CONDENSER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2337                   | COMPRESSOR 3 DISCHARGE         | 18836, PSDTX1206   |
| PSV233                    | ETHYLENE VAPORIZER             | 18836, PSDTX1206   |
| PSV2342                   | COMPRESSOR 3 SUCTION           | 18836, PSDTX1206   |
| PSV2344                   | COMPRESSOR 3 INTERSTAGE        | 18836, PSDTX1206   |
| PSV2352                   | 3K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |
| PSV2353                   | 3K-201 RECYCLE COMPRESSOR      | 18836, PSDTX1206   |
| PSV2377                   | COMPRESSOR 3                   | 18836, PSDTX1206   |
| PSV24039                  | METHANOL/WATER HEAT EXCHANGE   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV2556                   | COMONOMER UNLOADING            | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV2557                   | COMONOMER UNLOADING            | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV3034                   | DRYER CARRIER GAS              | 18836, PSDTX1206   |
| PSV306A                   | 1/2/3V-392A VENT SURGE DRUMS   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV309                    | 2V-392A VENT SURGE DRUM        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV309A                   | 1V-392A VENT SURGE DRUM        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV30A                    | V-305 ALCOHOL TRUCK UNLOAD     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV310                    | V-305 KILL ALCOHOL FEED TANK   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV3202                   | DRYER CARRIER GAS              | 18836, PSDTX1206   |
| PSV3439                   | 1/2/3V-392A VENT SURGE DRUMS   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV346                    | 1/2/3V-392A VENT SURGE DRUM    | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV372                    | 1E-302A CENTER GAS COOLER      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV390                    | 2E-302A CARRIER GAS COOLER     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4001                   | 1B-401B BLOWER                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4002                   | 1B-401A BLOWER                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4003                   | 1B-401C BLOWER                 | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4005                   | CONVEYOR GAS BLOWERS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV4019                   | 2B-401B PRESSURE BLOWER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4020                   | 2B-401A PRESSURE BLOWER        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4149A                  | 1B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4149B                  | 1B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4149C                  | 1B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4149D                  | 1B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4149E                  | 1B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4158                   | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4161A                  | 2B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4161B                  | 2B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4161C                  | 2B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4161D                  | 2B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4161E                  | 2B-452 BLOWER PSV              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4203                   | 3B-401B SYSTEM A BLOWER        | 18836, PSDTX1206   |
| PSV44056                  | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44058                  | CONVEYOR GAS BLOWERS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44070                  | CONVEYOR GAS BLOWERS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV44076                  | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44095                  | CONVEYOR GAS BLOWERS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44096                  | CONVEYOR GAS BLOWERS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44106                  | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV44109                  | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV4415                   | 3V-415 PELLETIZER HO TANK      | 18836, PSDTX1206   |
| PSV446                    | 3B-401A SYSTEM A BLOWER        | 18836, PSDTX1206   |
| PSV4602                   | 1V-412 PELLETIZER HO TANK      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV460                    | 3F-402A SYSTEM A COLLECTOR     | 18836, PSDTX1206   |
| PSV4605                   | 2V-412 PELLETIZER HO TANK      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV466                    | 3F-402B SYSTEM A COLLECTOR     | 18836, PSDTX1206   |
| PSV502                    | CRUDE HEXANE STORE/UNLOAD      | 18836, PSDTX1206   |
| PSV508                    | B2 COLUMN                      | 18836, PSDTX1206   |
| PSV510                    | CRUDE HEXANE STORE/LOAD        | 18836, PSDTX1206   |
| PSV515                    | B1 COOLER                      | 18836, PSDTX1206   |
| PSV517                    | B2 COLUMN                      | 18836, PSDTX1206   |
| PSV5182                   | B1 COLUMN PREHEATER            | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV5190                   | B1 PRODUCT COOLER              | 18836, PSDTX1206   |
| PSV5191                   | B1 PRODUCT COOLER              | 18836, PSDTX1206   |
| PSV520                    | B2 COLUMN                      | 18836, PSDTX1206   |
| PSV521                    | E-534 B2 COLUMN VENT COND.     | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV5223                   | METHANOL/WATER HEAT EXCHANGE   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV524                    | B1 COLUMN                      | 18836, PSDTX1206   |
| PSV530                    | B1 COLUMN ACCUMULATOR          | 18836, PSDTX1206   |
| PSV5321                   | B1 COLUMN PREHEATER            | 18836, PSDTX1206   |
| PSV5322                   | B1 COLUMN                      | 18836, PSDTX1206   |
| PSV5323                   | B1 COLUMN                      | 18836, PSDTX1206   |
| PSV550                    | REGENERATION GAS KO DRUM       | 18836, PSDTX1206   |
| PSV567                    | B1 COOLER                      | 18836, PSDTX1206   |
| PSV595                    | REGENERATION GAS KO DRUM       | 18836, PSDTX1206   |
| PSV605                    | PURE B2 TANK                   | 18836, PSDTX1206   |
| PSV6071A                  | WAX TANK STORE/LOAD            | 18836, PSDTX1206   |
| PSV6071B                  | WAX TANK STORE/LOAD            | 18836, PSDTX1206   |
| PSV6072                   | CRUDE HEXANE STORE/UNLOAD      | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| PSV7051                   | SEAL OIL DRUM                  | 18836, PSDTX1206   |
| PSV7206                   | FUEL GAS KO DRUM               | 18836, PSDTX1206   |
| PSV7246                   | SEAL OIL DRUM                  | 18836, PSDTX1206   |
| PSV7261                   | 1L-361A SCREW CONVEYOR         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV7262                   | 1L-361B SCREW CONVEYOR         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV7263                   | 2L-361A SCREW CONVEYOR         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV7264                   | 2L-361B SCREW CONVEYOR         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| PSV7720                   | FUEL GAS METERING              | 18836, PSDTX1206   |
| PW-1                      | PELLET WASHDOWN                | 18836, PSDTX1206   |
| RD122                     | V-103 DISTILLATE DRUM          | 18836, PSDTX1206   |
| RD161                     | CATALYST SYSTEM RD 1           | 18836, PSDTX1206   |
| RD175                     | CATALYST SYSTEM RD 2           | 18836, PSDTX1206   |
| RD240                     | E-555A ETHYLENE VAPORIZER      | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD300                     | 3/4 F-301 DRYER BAG FILTER     | 18836, PSDTX1206   |
| RD302                     | 3V-392 VENT SURGE DRUM         | 18836, PSDTX1206   |
| RD306                     | 1V-392A VENT SURGE DRUM        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD309                     | 2V-392A VENT SURGE DRUM        | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization                          |
|---------------------------|--------------------------------|--|
| RD330                     | 1M-302 PURGE CONVEYOR          | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD331                     | 1M-301 PURGE CONVEYOR          | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD3401                    | POWDER DRYER SYSTEMS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD340                     | 2M-302 PURGE CONVEYOR          | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD341                     | 2M-301 PURGE CONVEYOR          | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD349                     | POWDER DRYER SYSTEMS           | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD506                     | T-796 WAX LOADING KO POT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| RD800                     | V-825 RUPTURE DISK             | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |
| SP-1                      | SKIMMER POND                   | 18836, PSDTX1206   |
| SSP-A                     | STORM SURGE POND A             | 18836, PSDTX1206   |
| SSP-B                     | STORM SURGE POND B             | 18836, PSDTX1206   |
| V-193                     | SECOND REACTOR VENT TREATER    | 18836, PSDTX1206   |
| V-197                     | ALUMINA BED ABSORBERS          | 18836, PSDTX1206   |
| V-735                     | FUEL GAS KO DRUM               | 18836, PSDTX1206   |
| V-795                     | PROCESS FUEL OIL TANK TO FLARE | 18836, PSDTX1206   |
| WWTP-2                    | AERATED LAGOON                 | 18836, PSDTX1206   |
| XC4004                    | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| XC4005                    | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4006                    | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4007                    | POWDER DUST COLLECTORS         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4009                    | IT-401A POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4010                    | IT-401B POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4011                    | IT-401C POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4028                    | 2T-401B POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4029                    | 2T-401C POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4030                    | 2T-401A POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4049                    | IT-411 POWDER FEED SILO VENT   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4060C                   | 2T-411 POWDER FEED SILO VENT   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4061                    | 1T-441E PRODUCT SILO VENT      | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| XC4062                    | 1T-441F PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4077                    | 1T-441A PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4078                    | 1T-441B PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4079                    | 1T-441C PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4081                    | 1T-441G PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4082                    | 1T-441H PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4083                    | 1T-441I PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4084                    | 1T-441J PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4085                    | 2T-441A PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4086                    | 2T-441B PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4087                    | 2T-441C PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4088                    | 2T-441D PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4093                    | 1T-451A SILO VENT              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4094                    | 1T-451B SILO VENT              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4095                    | 2T-451A SILO VENT              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| XC4096                    | 2T-451B SILO VENT              | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4097                    | T-452 PACKER SILO VENT         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC4098                    | 2T-441E PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4099                    | 2T-441F PRODUCT SILO VENT      | 18836, PSDTX1206   |
| XC4100                    | 3BL-431E PELLETT BLENDER       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC415                     | 3T-401A POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC417                     | 3T-401B POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC421                     | 3T-401C POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC423                     | 3T-401D POWDER SILO VENT       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC434                     | 3T-411 POWDER FEED SILO VENT   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4432                    | POWDER SILOS                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4433                    | POWDER SILOS                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4434                    | POWDER SILOS                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4435                    | POWDER SILOS                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC4447                    | POWDER SILOS                   | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC461                     | 3M-452 BLOWER DISCHARGE FILTER | 18836, PSDTX1206   |

### New Source Review Authorization References by Emissions Unit

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization  |
|---------------------------|--------------------------------|--|
| XC465                     | LINE 3 SILO VENT               | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XC472                     | T-452 PACKER SILO VENT         | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003, 106.393/09/04/2000 |
| XC56                      | 3BL-431F PELLETT BLENDER       | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XCV1006                   | E-191 CAT. PREP. CONDENSER     | 18836, PSDTX1206   |
| XFC816A                   | M-801 CPI SEPARATOR            | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |
| XFC816B                   | M-801 CPI SEPARATOR            | 18836, PSDTX1206, 106.261/11/01/2003, 106.262/11/01/2003                     |

**Schedules**

**Compliance Schedule ..... 92**

## Compliance Schedule

| <b>A. Compliance Schedule</b>   |  |   |  |   |
|---|--|---|--|---|
| <b>1. Specific Non-Compliance Situation</b>   |  |   |  |   |
| <b>Unit/Group/<br/>Process ID.<br/>No(s).</b>   | <b>SOP<br/>Index No.</b>                       | <b>Pollutant</b>                          | <b>Applicable Requirement</b>                |   |
|   |  |   | <b>Citation</b>                              | <b>Text Description</b>                         |
| HT-602; HT-606  | 63FFFF-TK1                                     | HAPS                                      | 63.2535(c);<br>60.113b(a)(4)                 | INTERNAL INSPECTION<br>REQUIRED EVERY 10 YEARS. |
| <b>2. Compliance Status Assessment Method and Records Location</b>  |  |   |  |   |
| <b>Compliance Status Assessment Method</b>  |  |   | <b>Location of<br/>Records/Documentation</b> |   |
| <b>Citation</b>   | <b>Text Description</b>                        |   |  |   |
| 63.2535(c);<br>60.113b(a)(4)  | Internal inspection required every 10 years    |   | Audit privilege records                      |   |
| <b>3. Non-compliance Situation Description</b>  |  |   |  |   |
| Internal inspection of Internal Floating Roof Tanks was not conducted within 10 years of last inspection. |  |   |  |   |
| <b>4. Corrective Action Plan Description</b>  |  |   |  |   |
| Site Inspection Program updated to include 10 year internal inspection requirements.                      |  |   |  |   |
| <b>5. List of Activities/Milestones to Implement the Corrective Action Plan</b>                           |  |   |  |   |
| <b>1</b>  | Perform internal inspections by July 31, 2014. |   |  |   |
| <b>6. Previously Submitted Compliance Plan(s)</b>   |  | <b>Type of Action</b>                     |  | <b>Date Submitted</b>                           |
| N/A   |  |   |  |   |
| <b>7. Progress Report Submission Schedule</b>   |  | EVERY 6 MONTHS, STARTING JANUARY 1, 2014. |  |   |

**Alternative Requirement**

**Alternative Requirement ..... 94**



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

MAR 12 2010

Mr. Brian Meek  
HSE Staff  
Equistar Chemicals, LP – Matagorda Facility  
Hwy 60, 13 miles south of Bay City  
P.O. Box 2100  
Bay City, TX 77414

Re: 40 C.F.R. Part 63, Subpart FFFF Affected Facility in Texas  
Request for Alternative Monitoring For Boilers H-731 A and B  
Use of ratio of stack excess oxygen fuel feed in place of monitoring firebox  
temperature

Dear Mr. Meek:

On September 9, 2008, with updates and revisions dated March 23, 2009 and May 14, 2009, Equistar Chemicals, LP (Equistar) filed with the Environmental Protection Agency (EPA) a request for approval of alternative monitoring under 40 C.F.R. Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (MON). This request relates to operations in the High Density Polyethylene (HDPE) Plant which is subject to MON and is permitted by the Texas Commission on Environmental Quality (TCEQ) under Title V Permit Number 18836.

In its request, Equistar explains that the HDPE plant generates a slip stream called Carbon Bed Vent Gas (CBVG), which is controlled in either of two boilers, H-731A and H-731B, or in the flare. The boilers are identical with a design heat capacity of 79.7 MM BTU/hr. The boilers are fired with process fuel, a combination of plant off-gas and natural gas, which has a heating value of approximately 1,100 BTU/scf. Venting the CBVG to the boiler firebox requires compliance with the MON requirements under 40 C.F.R. 63.2450(d), which in turn refers to requirements under Part 63, Subpart SS, pursuant to 63.982(c). Equistar must demonstrate that the boilers are able to reduce the HAPs to less than 20 ppmv. Subpart SS at 63.988(c)(3) also requires a temperature monitoring device be installed in the firebox and temperature to be continuously monitored, or an approved alternative be employed. Equistar further explains that the boilers do not have a firebox temperature monitoring device. Equistar is seeking an approval to use an alternative method to demonstrate compliance with this requirement. Specifically, Equistar proposed to monitor the ratio of stack excess oxygen to the fuel feed in the boilers.

A performance test conducted on April 29, 2008, demonstrated that the boilers can achieve the required HAP destruction of less than 20 ppm if operated at a ratio of less

than or equal to 0.3 excess oxygen: fuel. An additional performance test was conducted on April 8, 2009, to determine if a broader ratio could be achieved while meeting the required HAP destruction criterion. Results from both tests were documented by Stork Testing and Metallurgical Consulting, Inc. of Houston, Texas. The 2008 performance test showed non-detectable emissions for the three potential HAPs (n-hexane, toluene, and xylene). The 2009 performance test showed HAP emissions of less than two (2) ppmvd at 3% oxygen. Equistar continuously monitored fuel feed rate and excess oxygen during the performance tests and recorded the same using the plant distributed control system (DCS). The facility has the capability to continuously monitor and record these two parameters on a regular operational basis.

Based on the analytical and operational data from the 2009 performance test, Equistar believes the boilers will achieve the required HAP destruction if operated at an oxygen to fuel ratio of less than or equal to 0.51. The operational range of the boiler process fuel feed rate is 16-38 MSCFH, and the range of stack excess oxygen readings is between 3.3 and 4.7%.

Equistar proposes to monitor these two parameters and will ensure that the maximum excess oxygen to fuel feed ratio of 0.51 is not exceeded. The facility will use DCS data trends on these two parameters to set an alarm if this ratio is approached and the HDPE plant will divert the CBVG stream to the other boiler or to the plant flare.

EPA notes that a similar request for using the ratio of stack oxygen concentration and fuel rate in order to control HAP emissions pursuant to the Benzene NESHAPS, 40 C.F.R. Part 61, Subpart FF, has been approved by the Agency on October 3, 2003, for use by DuPont Sabine River Works in Orange, Texas.

EPA has concluded, based on the information Equistar has provided, as discussed above, that Equistar's use of the ratio of stack oxygen concentration and boiler fuel feed rate is technically acceptable. Within normal operating conditions, Equistar is to keep a ratio of stack oxygen content to the boiler fuel flow rate of less than or equal to 0.51.

Accordingly, EPA approves Equistar's request for this alternative monitoring plan. This alternative monitoring determination does not change or void any of the other requirements of 40 C.F.R. Part 63 Subpart FFFF and other Subparts that may apply to this facility. This approval is being granted with respect to the specific terms and conditions of operations and information presented above. The facility is responsible for meeting all regulatory compliance requirements and other requirements in order to maintain the facility within good engineering practice norms.

EPA recommends that Equistar contact the TCEQ's air permitting office to request that it incorporate these alternative monitoring requirements in the facility's air pollution control related permits. This would enable Equistar to be assured that in the future the alternative monitoring requirements to which the facility is subject are immediately apparent to air pollution control agency personnel and the public.

Should you have any questions regarding this letter, please contact Mr. Himanshu Vyas of my staff at 214-665-2709.

Sincerely,



(s) David F. Garcia  
Associate Director  
Air/Toxics Inspection and  
Coordination Branch

cc: Laura Clark  
TCEQ Region 10  
3870 Eastex Fwy.  
Beaumont, TX 77703-1830

David Van Soest  
Air Section Manager  
Enforcement Division  
Texas Commission on Environmental Quality  
Mail Code 219, P.O. Box 13087  
Austin, TX 78711 3087

**Appendix A**

**Acronym List ..... 98**

## 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..... 100**

## Major NSR Summary Table

| Permit Number: 18836 / PSD-TX-1206 |                        |                          | Issuance Date: August 2, 2012 |         |                                     |                              |                        |
|------------------------------------|------------------------|--------------------------|-------------------------------|---------|-------------------------------------|------------------------------|------------------------|
| Emission Point No. (1)             | Source Name (2)        | Air Contaminant Name (3) | Emission Rates                |         | Monitoring and Testing Requirements | Recordkeeping Requirements   | Reporting Requirements |
|                                    |                        |                          | lb/hr                         | TPY (4) | Spec. Cond.                         | Spec. Cond.                  | Spec. Cond.            |
| CB-1                               | Compounding Building 1 | PM10                     | 0.09                          | 0.35    | --                                  | 29                           | --                     |
| CB-1                               | Compounding Building 1 | VOC (6)                  | 9.21                          | 3.4     | --                                  | 29                           | --                     |
| CB-2                               | Compounding Building 2 | PM10                     | 0.06                          | 0.27    | --                                  | 29                           | --                     |
| CB-2                               | Compounding Building 2 | VOC (6)                  | 0.06                          | 0.27    | --                                  | 29                           | --                     |
| CB-3                               | Compounding Building 3 | PM10                     | 0.06                          | 0.19    | --                                  | 29                           | --                     |
| CB-3                               | Compounding Building 3 | VOC (6)                  | 0.06                          | 0.27    | --                                  | 29                           | --                     |
| CT-711                             | Cooling Tower (5)      | VOC                      | 1.05                          | 4.6     | 19                                  | 19                           | --                     |
| CT-711A                            | Cooling Tower (5)      | VOC                      | 1.68                          | 7.36    | 19                                  | 19                           | --                     |
| FLARE                              | Flare                  | CO                       | 53.5                          | 49.9    | 7, 35                               | 6, 7, 33, 35                 | --                     |
| FLARE                              | Flare                  | NOx                      | 7.41                          | 9.8     | 7, 35                               | 6, 7, 33, 35                 | --                     |
| FLARE                              | Flare                  | SO2                      | 0.06                          | 0.02    | 7, 35                               | 6, 7, 33, 35                 | --                     |
| FLARE                              | Flare                  | VOC                      | 45.2                          | 61.7    | 7, 35                               | 6, 7, 33, 35                 | --                     |
| FLARE                              | Flare (8)              | CO                       | 58.7                          | 6.33    | 7, 35, 37, 38                       | 6, 7, 33, 35, 36, 37, 38, 42 | --                     |
| FLARE                              | Flare (8)              | NOx                      | 11.4                          | 1.2     | 7, 35, 37, 38                       | 6, 7, 33, 35, 36, 37, 38, 42 | --                     |
| FLARE                              | Flare (8)              | SO2                      | 1.3                           | 0.01    | 7, 35, 37, 38                       | 6, 7, 33, 35, 36, 37, 38, 42 | --                     |
| FLARE                              | Flare (8)              | VOC                      | 64.7                          | 12.9    | 7, 35, 37, 38                       | 6, 7, 33, 35, 36, 37, 38, 42 | --                     |

## Major NSR Summary Table

| Permit Number: 18836 / PSD-TX-1206   |                                      |                          | Issuance Date: August 2, 2012 |         |                                     |                            |                        |
|--|--------------------------------------|--------------------------|-------------------------------|---------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)   | Source Name (2)                      | Air Contaminant Name (3) | Emission Rates                |         | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|  |                                      |                          | lb/hr                         | TPY (4) | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| FUGITIVE   | Process Fugitives (5)                | VOC                      | 7.84                          | 34.31   | 15, 16, 17                          | 15, 16, 17, 31             | --                     |
| HF-415   | Additive Baghouse                    | PM10                     | 0.84                          | 3.68    | 27, 28                              | --                         | --                     |
| HF-481   | Pelletizing Building Filter Receiver | PM10                     | 6                             | 1.4     | 27, 28                              | --                         | --                     |
| BOILERS: Case 1 Natural Gas/Plant Fuel Gas   | --                                   | --                       | --                            | --      | --                                  | --                         | --                     |
| HH-731A  | Boiler A                             | CO                       | 5.81                          | 25.43   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | NOx                      | 4.78                          | 20.95   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | PM/PM10                  | 1.11                          | 4.88    | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | SO2                      | 1.05                          | 4.62    | --                                  | 32                         | --                     |
| HH-731A  | Boiler A                             | VOC                      | 0.22                          | 0.97    | --                                  | 32                         | --                     |
| HH-731B  | Boiler B                             | CO                       | 5.81                          | 25.43   | 14                                  | 14, 32                     | 14                     |
| HH-731B  | Boiler B                             | NOx                      | 4.78                          | 20.95   | 14                                  | 14, 32                     | 14                     |
| HH-731B  | Boiler B                             | PM/PM10                  | 1.11                          | 4.88    | 14                                  | 14, 32                     | 14                     |
| HH-731B  | Boiler B                             | SO2                      | 1.05                          | 4.62    | --                                  | 32                         | --                     |
| HH-731B  | Boiler B                             | VOC                      | 0.22                          | 0.97    | --                                  | 32                         | --                     |
| BOILERS: Case 2 – Combination of Natural Gas/Plant Fuel Gas plus By-Product Liquid Wax | --                                   | --                       | --                            | --      | --                                  | --                         | --                     |
| HH-731A  | Boiler A                             | CO                       | 6.26                          | 27.42   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | NOx                      | 8.32                          | 28.69   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | PM                       | 10.17                         | 24.71   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | PM10                     | 8.2                           | 20.38   | 14                                  | 14, 32                     | 14                     |
| HH-731A  | Boiler A                             | SO2                      | 2.9                           | 8.67    | --                                  | 32                         | --                     |
| HH-731A  | Boiler A                             | VOC                      | 0.5                           | 1.42    | --                                  | 32                         | --                     |

## Texas Commission on Environmental Quality

### Major NSR Summary Table

| Permit Number: 18836 / PSD-TX-1206 |  |                          | Issuance Date: August 2, 2012 |         |                                     |                            |                        |
|------------------------------------|--|--------------------------|-------------------------------|---------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)             | Source Name (2)  | Air Contaminant Name (3) | Emission Rates                |         | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|                                    |  |                          | lb/hr                         | TPY (4) | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| HH-731B                            | Boiler B   | CO                       | 6.26                          | 27.42   | 14                                  | 14, 32                     | 14                     |
| HH-731B                            | Boiler B   | NOx                      | 8.32                          | 28.69   | 14                                  | 14, 32                     | 14                     |
| HH-731B                            | Boiler B   | PM                       | 10.17                         | 24.71   | 14                                  | 14, 32                     | 14                     |
| HH-731B                            | Boiler B   | PM10                     | 8.2                           | 20.38   | 14                                  | 14, 32                     | 14                     |
| HH-731B                            | Boiler B   | SO2                      | 2.9                           | 8.67    | --                                  | 32                         | --                     |
| HH-731B                            | Boiler B   | VOC                      | 0.5                           | 1.42    | --                                  | 32                         | --                     |
| HST-101                            | Catalyst Preparation Area<br>Condenser (Backup service only) | VOC                      | 61                            | 0.68    | --                                  | 8, 30                      | --                     |
| HT-171                             | Tank T-171   | VOC                      | 0.21                          | 0.17    | --                                  | 20                         | --                     |
| HT-601                             | Tank T-601   | VOC                      | 0.51                          | 0.97    | 20                                  | 20                         | --                     |
| HT-602                             | Tank T-602   | VOC                      | 2.34                          | 2.7     | 20                                  | 20                         | --                     |
| HT-606                             | Tank T-606   | VOC                      | 2.34                          | 1.3     | 20                                  | 20                         | --                     |
| HT-608                             | Tank T-608   | VOC                      | 0.2                           | <0.01   | --                                  | 20                         | --                     |
| HT-735                             | Tank T-735   | VOC                      | 1.06                          | 1.44    | 20                                  | 20                         | --                     |
| HT-793                             | Tank T-793   | VOC                      | 0.02                          | <0.01   | --                                  | 20                         | --                     |
| HT-794                             | Tank T-794   | VOC                      | 0.02                          | <0.01   | --                                  | 20                         | --                     |
| HT-797                             | Tank T-797   | VOC                      | 0.03                          | <0.01   | --                                  | 20                         | --                     |
| HT-798                             | Tank T-798   | VOC                      | 0.06                          | <0.01   | --                                  | 20                         | --                     |
| HT-799                             | Tank T-799   | VOC                      | 15.05                         | 0.19    | --                                  | 20                         | --                     |
| HT-801                             | Tank T-801   | VOC                      | 5.41                          | 0.02    | --                                  | 20                         | --                     |
| HV-124                             | ATE System Vent  | VOC                      | 11.49                         | 1.37    | --                                  | --                         | --                     |
| HV-125                             | DEAC System Vent   | VOC                      | 11.39                         | 1.17    | --                                  | --                         | --                     |
| HV-305                             | Tank V-305   | VOC                      | 0.13                          | <0.01   | --                                  | 20                         | --                     |

# Texas Commission on Environmental Quality

## Major NSR Summary Table

| <b>Permit Number: 18836 / PSD-TX-1206</b> |                                     |                          | <b>Issuance Date: August 2, 2012</b> |         |                                     |                            |                        |
|---|-------------------------------------|--------------------------|--------------------------------------|---------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)                    | Source Name (2)                     | Air Contaminant Name (3) | Emission Rates                       |         | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|   |                                     |                          | lb/hr                                | TPY (4) | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| HX-411                                    | Extruder CAS (Back up service only) | PM10                     | 1.9                                  | 1.9     | --                                  | 8, 29                      | --                     |
| HX-411                                    | Extruder CAS (Back up service only) | VOC                      | 7.8                                  | 1.12    | --                                  | --                         | --                     |
| WWTP-2                                    | Wastewater                          | VOC                      | 0.46                                 | 2.1     | --                                  | --                         | --                     |
| HBL-431                                   | Blending Silo Vents                 | PM10                     | 1.74                                 | 2.69    | 18                                  | 18, 29                     | --                     |
| HBL-431                                   | Blending Silo Vents                 | VOC (7)                  | 40.1                                 | 57.66   | 18                                  | 18, 29                     | --                     |
| HT-441                                    | Product Silo Vents                  | PM10                     | 0.24                                 | 0.63    | 18, 27, 28                          | 18, 29                     | --                     |
| HT-441                                    | Product Silo Vents                  | VOC (7)                  | --                                   | --      | 18, 27, 28                          | 18, 29                     | --                     |
| HF-454                                    | Product Filter Receiver             | PM10                     | 0.65                                 | 2.85    | 18, 27, 28                          | 18, 29                     | --                     |
| HF-454                                    | Product Filter Receiver             | VOC (7)                  | --                                   | --      | 18, 27, 28                          | 18, 29                     | --                     |
| HF-456                                    | Product Silos Baghouse              | PM10                     | 3.67                                 | 16.08   | 18, 27, 28                          | 18, 29                     | --                     |
| HF-456                                    | Product Silos Baghouse              | VOC (7)                  | --                                   | --      | 18, 27, 28                          | 18, 29                     | --                     |
| HTB-451                                   | Railcar Silo Vents                  | PM10                     | 0.35                                 | 0.82    | 18                                  | 18, 29                     | --                     |
| HTB-451                                   | Railcar Silo Vents                  | VOC (7)                  | --                                   | --      | 18                                  | 18, 29                     | --                     |
| HQ-460                                    | Bagging/Boxing                      | PM10                     | 0.09                                 | 0.17    | 18                                  | 18, 29                     | --                     |
| HQ-460                                    | Bagging/Boxing                      | VOC (7)                  | --                                   | --      | 18                                  | 18, 29                     | --                     |
| EG-701                                    | Diesel Generators                   | CO                       | 2.91                                 | 0.08    | --                                  | 34                         | --                     |
| EG-701                                    | Diesel Generators                   | NOx                      | 13.49                                | 0.35    | --                                  | 34                         | --                     |
| EG-701                                    | Diesel Generators                   | PM10                     | 0.96                                 | 0.02    | --                                  | 34                         | --                     |
| EG-701                                    | Diesel Generators                   | SO2                      | 0.89                                 | 0.02    | --                                  | 34                         | --                     |
| EG-701                                    | Diesel Generators                   | VOC                      | 1.09                                 | 0.03    | --                                  | 34                         | --                     |
| P-741B                                    | Firewater Pumps                     | CO                       | 2.34                                 | 0.06    | --                                  | 34                         | --                     |
| P-741B                                    | Firewater Pumps                     | NOx                      | 10.85                                | 0.28    | --                                  | 34                         | --                     |
| P-741B                                    | Firewater Pumps                     | PM10                     | 0.77                                 | 0.02    | --                                  | 34                         | --                     |
| P-741B                                    | Firewater Pumps                     | SO2                      | 0.72                                 | 0.02    | --                                  | 34                         | --                     |
| P-741B                                    | Firewater Pumps                     | VOC                      | 0.88                                 | 0.02    | --                                  | 34                         | --                     |

# Texas Commission on Environmental Quality

## Major NSR Summary Table

| Permit Number: 18836 / PSD-TX-1206 |                 |                          | Issuance Date: August 2, 2012 |        |                                     |                            |                        |
|------------------------------------|-----------------|--------------------------|-------------------------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1)             | Source Name (2) | Air Contaminant Name (3) | Emission Rates *              |        | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
|                                    |                 |                          | lb/hr                         | TPY ** | Spec. Cond.                         | Spec. Cond.                | Spec. Cond.            |
| P-741C                             | Firewater Pumps | CO                       | 2.34                          | 0.06   | --                                  | 34                         | --                     |
| P-741C                             | Firewater Pumps | NOx                      | 10.85                         | 0.28   | --                                  | 34                         | --                     |
| P-741C                             | Firewater Pumps | PM10                     | 0.77                          | 0.02   | --                                  | 34                         | --                     |
| P-741C                             | Firewater Pumps | SO2                      | 0.72                          | 0.02   | --                                  | 34                         | --                     |
| P-741C                             | Firewater Pumps | VOC                      | 0.88                          | 0.02   | --                                  | 34                         | --                     |
| PWDRLDG                            | Power Loading   | VOC                      | 6                             | 4.98   | 23, 24                              | 22, 23                     | --                     |
| MSS                                | MSS Activities  | PM/PM10/PM2.5            | 1.3                           | 0.03   | 37, 38, 39, 40                      | 36, 37, 38, 39, 40, 42     | --                     |
| MSS                                | MSS Activities  | VOC                      | 182.7                         | 5.8    | 37, 38, 39, 40                      | 36, 37, 38, 39, 40, 42     | --                     |

**Footnotes:**

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub>- total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub>- particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The VOC emissions for the compounding buildings, including EPNs CB-1, CB-2, CB-3, are combined into EPN CB-1 for the purposes of this table.
- (7) The VOC emissions for all dry pellet handling equipment, including EPNs HBL-431, HT-441, HTB-451, HF-454, HF-456, and HQ-460, are combined into EPN HBL-431 for the purposes of this table.
- (8) Emissions during MSS.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/year 8,760

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

1. This permit authorizes emissions only from those points listed in the attached table entitled A Emission Sources - Maximum Allowable Emission Rates, @ and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in the Special Conditions of this permit. **(12/04)**
  
2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions, with the exception of those listed below. **(12/04)**
  - A. Eight Rupture Discs (RD 300, 302, 330, 331, 340, 341, 349, and 3401) connected to the powder dryer systems.
  - B. Four Pressure Safety Valves (PSV 306A, 346, and 309A) connected to the 1/2 V-392A and 3V-392 Vent Surge Drums and PSV-3439 connected to 4V-362.
  - C. Four Pressure Safety Valves (PSV 2201, 2214, 2204, and 2215) on the Comonomer Tanks (T-201 and T-202).
  - D. Thirteen Pressure Safety Valves (PSV 124, 178, 372, 390, 521, 2189, 2190, 2265, 2271, 2278, 2282, 2288, and 2295) connected to the refrigerated water heat exchangers.
  - E. Fourteen Pressure Set Valves (PSV 44058, 44070, 44095, 44096, 4001, 4002, 4003, 4005, 4019, 4020, 446, 4203, 481, and 483) in the conveyer gas pressure blowers.
  - F. Eighteen Pressure Safety Valves (XC 4009, 4010, 4011, 4028, 4029, 4030, 4049, 4060, 4432, 4433, 4434, 4435, 4447, 415, 417, 421, 423, and 434) on the powder silos.
  - G. Twelve Pressure Safety Valves (XC 4004, 4005, 4006, 4007, 44106, 44109, 44056, 44076, 460, 466, 495, and 4158) on the powder dust collector.
  - H. Two Pressure Safety Valves (PSV 2556 and 2557) on the comonomer unloading compressor.
  - I. Six Pressure Safety Valves with rupture discs (PSV 2220, 2311, 2312, 5223, 5312, and 24039) on the methanol/water system heat exchanger.

- J. One Rupture Disc (RD-506) connected to the wax vent pot.
- K. One Rupture Disc (RD-240) connected to the ethylene vaporizer in chilled water service.
- L. One Pressure Safety Valve (PSV 3202) located on the carrier gas system.
- M. One Pressure Safety Valve (PSV 310) located on the mixed alcohol system.
- N. Two Conservation Vents (RD-800 and XFC 816) on Vessel V-825 and the CPI separator.
- O. Eleven Pressure Safety Valves (PSV 102, 104, 114, 115, 116, 120, 126, 184, 1174A, 1174B, and 1442) and two Rupture Disks (RD 122 and 175) associated with catalyst preparation equipment.
- P. Two Conservation Vents (XC 56 and 461) associated with polyethylene pellet handling and loading.
- Q. Three Pressure Safety Valves (PSV 4415, 4602, and 4605) associated with the pelletizer hot oil tanks.

### Operating Limitations

- 3. The annual production of high density polyethylene from this facility shall not exceed 1,860 million pounds. **(07/02)**
- 4. Total oxides of nitrogen (NO<sub>x</sub>) emissions from each of the following boiler stacks shall not exceed 0.06 pound of NO<sub>x</sub> per MMBtu except when burning liquid wax fuel: Boiler A and Boiler B. **(07/02)**
- 5. The chloride content of the liquid wax fuel to the boilers shall not exceed 0.10 weight percent.
- 6. Gases to be flared at the Flare identified as Emission Point No. (EPN) FLARE shall maintain a minimum lower heating value, averaged over one hour, of more than 300 British thermal units (Btu) per cubic foot prior to the addition of stoichiometric air. If necessary to maintain the minimum lower heating value, sufficient fuel gas shall be added. Only nitrogen and compounds of hydrogen and carbon shall be flared. **(02/11)**

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 3

### 7. Flares meet the following requirements:

- A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the Title 40 Code of Federal Regulations (40 CFR) ' 60.18 specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

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

- B. The flare shall be operated with a flame present at all times and have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be maintained and calibrated according to its preventive maintenance schedule.
- C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam assist to the flare.
- D. The permit holder shall install a continuous flow monitor and composition analyzer that provides a record of the vent stream flow and composition to the flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour.

The monitors shall be calibrated 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;

The holder of this permit will maintain a flare monitoring plan that will be subject to the following:

- (1) Flare gas BTU content shall be monitored using an on-line gas chromatograph. Data from the chromatograph shall be accessible and shall be monitored at the unit control room. An alarm shall activate at the unit control room if the BTU content is less than that required in this permit.

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 4

- (2) Flare gas exit velocity shall be monitored using an on-line flow meter. The exit velocity shall be accessible and shall be monitored at the unit control room. An alarm shall activate at the unit control room if the flare gas exit velocity is greater than that required in this permit.
- (3) Single point calibration of the chromatograph shall be performed at least once per calendar month. In addition, single point calibration of the chromatograph shall be performed after significant maintenance, before returning the chromatograph to duty.
- (4) A physical check and inspection of the chromatograph system and of the on-line flow meter system shall be performed at least once per calendar month.

The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12 month period. Flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §60.18(f)(4) shall be recorded at least once every 15 minutes. Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit amendment application, Form PI-1 dated December 29, 2009. **(02/11)**

8. The EPNs HST-101 and HX-411, when not discharging to the boilers or flare, shall vent through a condenser and carbon adsorption bed, respectively. Venting shall be limited to no more than 288 hours per rolling 12-month period. **(12/04)**.
9. Combined steam production from both boilers shall not exceed 110,000 lbs/hr. **(07/02)**
10. The flare identified as EPN FLARE shall operate with no less than 98 percent efficiency in disposing of the carbon compounds. **(02/11)**
11. The Boilers identified as EPNs HH-731A and HH-731B shall operate with no less than 99.99 percent destruction efficiency in disposing of the carbon compounds. **(12/04)**
12. The Carbon Adsorption unit identified as EPN HX-411 shall operate with no less than 90 percent recovery efficiency in recovery of the VOC captured by the collection system. **(12/04)**
13. The Emergency Engines identified as EPNs EG-701, P-741B, and P-741C shall be subject to the following requirements:

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 5

- A. Fuel for these engines shall be petroleum distillate oil that is not a blend containing waste oils or solvents and that contains less than 0.3 percent by weight sulfur. Use of any other fuel will require prior approval of the Texas Commission on Environmental Quality (TCEQ) Executive Director.
- B. For each of these engines, operation authorized by this permit is limited to 52 hours per year. **(12/04)**

### Stack Sampling of Boilers

- 14. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Boilers (EPNs HH-731A and HH-731B) when firing either of the two fuel cases listed on the MAERT of this permit. Only one boiler needs to be tested to determine emission factors for the two boilers for each fuel case. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.
  - A. The appropriate TCEQ Regional Office in the region where the source is located shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:
    - (1) Date for pretest meeting.
    - (2) Date sampling will occur.
    - (3) Name of firm conducting sampling.
    - (4) Type of sampling equipment to be used.
    - (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or the U.S. Environmental Protection Agency (EPA) sampling procedures shall be made available to the TCEQ prior to the pretest meeting.

The TCEQ Regional Director shall approve or disapprove of any deviation from

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 6

specified sampling procedures.

Requests to waive testing for any pollutant specified in B of this condition shall be submitted to the TCEQ Office of Permitting/Registration, Air Permits Division. Test waivers and alternate or equivalent procedure proposals for New Source Performance Standards (NSPS) testing which must have the EPA approval shall be submitted to the TCEQ Regional Director.

- B. Air contaminants emitted from the Boiler (either EPN HH-731A or EPN HH-731B) to be tested for include (but are not limited to) NO<sub>x</sub> and carbon monoxide (also particulate matter [PM], PM less than 10 microns, and hydrogen chloride when firing by-product liquid wax fuel).
- C. Initial stack sampling shall occur by July 1, 1997. Stack sampling of a boiler in natural gas/plant fuel gas firing shall also occur within 60 days after initial start-up of Train 4. Stack sampling shall also occur at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. Additional time to comply with the applicable requirements of 40 CFR Part 60 and 40 CFR Part 61 requires the EPA approval, and requests shall be submitted to the appropriate regional office.
- D. The boilers shall operate at maximum firing rates during stack emission testing. Primary operating parameters that enable determination of firing rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the boiler is unable to operate at maximum firing rates during testing, then future firing rates may be limited to the rates established during testing. Additional stack testing may be required when higher firing rates are achieved.
- E. Two copies of the final sampling report shall be forwarded to the TCEQ within 30 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:  
  
One copy to the TCEQ Houston Regional Office.
- F. Stack sampling of a boiler in natural gas or plant fuel gas firing shall be repeated every five years in conformity with Items A, B, D, and E of this condition. **(07/02)**

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 7

### Fugitive Monitoring

#### 15. Piping, Valves, Flanges, Pumps, and Compressors in VOC Service - 28VHP

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

- A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pound per square inch, absolute (psia) at 68EF or (2) where the operating pressure is at least 5 kilopascals (0.725 pound per square inch) below ambient pressure. Equipment excluded from this condition shall be identified in a list to be made available upon request.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute, American Petroleum Institute (API), American Society Mechanical Engineers, or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Non-accessible valves, as defined by Title 30 Texas Administrative Code (30 TAC) Chapter 115, shall be identified in a list to be made available upon request.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. No later than the next scheduled quarterly monitoring after initial installation or replacement, all new or reworked connections shall be gas-tested or hydraulically-tested at no less than normal operating pressure and adjustments made as necessary to obtain leak-free performance. Flanges shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 8

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

An approved gas analyzer shall conform to requirements listed in 40 CFR  
' 60.485(a)-(b).

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

- G. Except as may be provided for in the special conditions of this permit, all pump and compressor seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.
- H. Damaged or leaking valves or flanges found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump and compressor seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired.
- I. Every reasonable effort shall be made to repair a leaking component, as specified in this paragraph, within 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 9

shutdown shall be identified for such repair by tagging. The TCEQ Executive Director, at his discretion, may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown.

- J. The results of the required fugitive monitoring and maintenance program shall be made available to the TCEQ or his designated representative upon request. Records shall indicate appropriate dates, test methods, instrument readings, repair results, and corrective actions taken for all components. Records of flange inspections are not required unless a leak is detected.
- K. Alternative monitoring frequency schedules of 30 TAC ' ' 115.352 through 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of Items F through G of this condition.

Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable NSPS, or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS) and does not constitute approval of alternative standards for these regulations. **(08/01)**

16. The permit holder shall maintain a list on-site indicating all connectors at this unit subject to instrument monitoring for fugitive emissions.

- A. Those components subject to annual monitoring are subject to the requirements below:

In addition to the weekly physical inspection required by Item E of Special Condition No. 18, all connectors in gas or vapor and light liquid service subject to annual monitoring shall be monitored annually with an approved gas analyzer in accordance with Items F through J of Special Condition No. 15. Alternative monitoring frequency schedules of 40 CFR Part 63, Subpart H, NESHAPS for Equipment Leaks, may be used in lieu of the monitoring frequency required by this permit condition. Compliance with this condition does not assure compliance with requirements of applicable state or federal regulation and does not constitute approval of alternative standards for these regulations.

- B. Those connectors subject to quarterly monitoring must meet the following requirements:

(1) In addition to the weekly physical inspection required by Item E of Special

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 10

Condition No. 15, all accessible connectors in gas or vapor and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with Items F through J of Special Condition No. 15.

- (2) In lieu of the monitoring frequency specified in paragraph (1), connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

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

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

- (3) The percent of connectors leaking used in paragraph B shall be determined using the following formula:

$$(C_l + C_s) \times 100 / C_t = C_p$$

Where:

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

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

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

$C_p$  = the percentage of leaking connectors for the monitoring period.  
**(03/98)**

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 11

17. Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period; **(02/11)**
  - A. a cap, blind flange, plug, or second valve must be installed on the line or valve; or
  - B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the monitoring activity recorded. For all other situations, the open-ended valve or line shall be monitored once at the end of the 72 hour period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the monitoring activity recorded. For turnarounds and all other situations, leaks are indicated by readings 500 ppmv above background and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve. **(09/11)**

### Periodic Monitoring

18. Product Degassing Emissions - Total VOC emitted to the atmosphere between the classifier and hopper car loadout shall not exceed 90 pounds of VOC per million pounds of product. Compliance with this requirement shall be demonstrated by periodic sampling.
  - A. Sampling of residual VOC in the polymer products shall be measured using the headspace analysis method.
  - B. Sampling shall be conducted for each production line as follows:
    - (1) During a week in which a production line does not operate, sampling of that line need not be conducted.
    - (2) During a week in which a production line operates only during one day, sampling of that line shall be conducted once.
    - (3) During a week in which neither B(1) or B(2) of this condition applies to a

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 12

production line, sampling of that line shall be conducted twice. **(12/04)**

- C. Sampling points will be the following locations:
- (1) Immediately after the pellet classifiers; and
  - (2) The railcars into which product is loaded for shipping. **(12/04)**
- D. Monthly, the sampling data shall be compiled into an average of the residual VOC in the polyethylene product after the classifiers and before product loadout. The difference in the average residual VOC measured after the classifiers and before product loadout shall be calculated; this difference is the actual VOC emission release. Using the monthly sampling results and the monthly production rates for each line, emissions expressed as pounds of VOC per million pounds of product shall be calculated and recorded.
- E. Records of the sampling results and calculations of emission rates shall be maintained at the plant site and made available upon request for TCEQ review. **(12/04)**
19. Cooling Tower Monitoring - The VOC associated with cooling tower water shall be monitored monthly with an approved air stripping system or equivalent. The appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling tower. Faulty equipment shall be repaired at the earliest opportunity, but no later than the next scheduled shutdown of the process unit in which the leak occurs. The results of the monitoring and maintenance efforts shall be recorded, and such records shall be maintained for a period of two years. The records shall be made available to TCEQ personnel upon request.

### Storage and Loading of VOC

20. A. The control requirements specified in paragraphs B-E of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.5 psia at the maximum expected operating temperature or (2) to storage tanks smaller than 25,000 gallons.
- B. An internal floating deck or Aroof@ or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 13

liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal. Installation of equivalent control requires prior review and approval by the TCEQ Executive Director.

- C. An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal, and the secondary seal is rim-mounted. A weathershield is not approvable as a secondary seal unless specifically reviewed and determined to be vapor-tight.
- D. For any tank equipped with a floating roof, the holder of this permit shall follow 40 CFR ' 60.113b, Testing and Procedures, to verify seal integrity. Additionally, the permit holder shall follow 40 CFR ' 60.115b, Reporting and Recordkeeping Requirements, to provide records of the dates seals were inspected, seal integrity, and corrective actions taken.
- E. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650, or an equivalent degree of flotation, except that an internal floating cover need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.
- F. Uninsulated tank exterior surfaces exposed to the sun shall be white or aluminum.
- G. For purposes of assuring compliance with VOC emission limitations, the holder of this permit shall maintain a monthly emissions record which describes calculated emissions of VOC from all storage tanks and loading operations. The record shall include tank or loading point identification number, control method used, tank or vessel capacity in gallons, name of the material stored or loaded, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, and VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures. These records shall be maintained at the plant site and be made available to representatives of the TCEQ upon request.
- H. If throughput records are specified in the special conditions of this permit, the holder of this permit may keep such records in lieu of the records required in paragraph G.

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 14

- I. Emissions for tanks and loading operations shall be calculated using: (a) AP-42 ACompilation of Air Pollution Emission Factors, Chapter 7 - Liquid Storage Tanks@ and (b) the TCEQ publication titled ATechnical Guidance Package for Chemical Sources - Storage Tanks.@
  - J. The control requirements specified in paragraphs B-I of this condition shall not apply to tanks routed to (1) the wastewater or (2) the pellet conveyor system. **(12/04)**
21. Each tank truck loaded with process fuel oil shall pass annual leak-tight testing as follows:
- A. The permittee shall not allow any tank truck to be filled or emptied unless the tank being filled or emptied has passed a leak-tight test within the last year as evidenced by a prominently displayed certification affixed near the U.S. Department of Transportation Certification Plate which shows:
    - (1) The date the tank truck last passed the leak-tight test required by this condition, and,
    - (2) The identification number of the tank truck.
  - B. Tank tightness testing shall be conducted as follows:
    - (1) Pressure in the tank must change no more than 3 inches of water (0.75 kPa) in five minutes when pressurized to a gauge pressure of 18 inches (4.5 kPa) or when evacuated to vacuum of 6 inches of water (1.5 kPa).
    - (2) Copies of all records required to demonstrate compliance with part A of this condition shall be maintained at the plant site and be made available to representatives of the TCEQ upon request. **(12/04)**
22. The annual loading throughput of polyethylene powder from silo to tank truck (EPN PWDRDLG) shall not exceed 30 million pounds. **(02/11)**
23. During polyethylene powder loading the hexane concentration of the vent stream from the tank truck (EPN PWDRDLG) shall not exceed an hourly average of 2600 ppmv. If the concentration is exceeded loading operations shall immediately cease, and the powder in the silo shall be purged to the flare until the concentration is no more than 2600 ppmv. Records of the sampling results and calculations of emission rates shall be maintained at

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 15

the plant site and made available upon request for TCEQ review. **(02/11)**

24. During polyethylene powder loading all lines and connectors shall be visually inspected for any defects prior to hookup. Lines and connectors that are visibly damaged shall be removed from service. Operations shall cease immediately upon detection of any powder leaking from the lines or connections. **(02/11)**
25. Truck or railcar loading emissions of blended wax material shall be vented to the flare. ISO containers storing blended material shall be vapor balanced to storage vessel T-607, which shall be vented to the flare. **(02/11)**

### Particulate Matter Control

26. The PM grain loading from any vent shall not exceed 0.02 grain per dry standard cubic feet of air.
27. All PM filter systems shall effectively capture emissions from associated equipment and prevent particulate emissions from escaping. The filter systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system.
28. The filtered vents covered by this permit shall not operate unless filters and associated equipment are maintained in good working order and operating during normal facility operations. The following steps shall be performed, at a minimum, to ensure proper operation of each filtered vent:
  - A. All filter vents shall be inspected for visible emissions once each day.
  - B. When there are visible emissions from any one filtered vent, the operation associated with that particular filtered vent shall be isolated and shut down in a timely and orderly manner. The isolated filter system shall be tested and inspected. Failed or damaged parts shall be repaired or replaced.
  - C. Spare filters shall be readily available for these facilities. If filters are not maintained on-site, permittee shall be responsible for obtaining replacement filters within 24 hours of an identified need. **(07/02)**

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 16

### Recordkeeping

29. Monthly production records to demonstrate compliance with Special Condition No. 3 shall be maintained at the plant site for a period of at least three years and shall be made available for inspection by TCEQ personnel.
30. Records shall be kept of the operating temperatures of methanol coolant of the condenser at Vent HST-101 when venting from the condenser directly to the atmosphere. The methanol coolant supply temperature at the central distribution manifold shall be recorded at least hourly. The outlet temperature of the condenser on the methanol coolant side shall be recorded at least every six hours.

Records shall be kept at the plant site and shall be made available for inspection by TCEQ personnel.

31. Records shall be kept of releases from relief valves specified in Special Condition No. 2. Data on releases shall include duration of release, amount of release, and operational circumstances. Records shall be kept at the plant site and shall be made available for inspection by TCEQ personnel. **(12/04)**
32. Records shall be kept of the steam production on a daily basis to show compliance with Special Condition No. 9.
33. Records shall be kept of the lower heating value of gases going to the flare and the calculated exit velocity of those gases from the flare to show compliance with Special Condition No. 6. Records shall be kept at the plant site and shall be made available for inspection by TCEQ personnel.
34. Records shall be kept of the hours of operation of the Emergency Engines identified as EPNs EG-701, P-741B, and P-741C to show compliance with Special Condition No. 13B. **(12/04)**

### Compliance Assurance Monitoring (CAM)

35. The following requirements apply to the capture systems for the Flare identified as EPN FLARE. **(02/11)**
  - A. The holder of this permit shall perform one of the following:

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 17

- (1) During each calendar month, conduct a visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
  - (2) During each calendar year, verify the capture system is leak free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks of each component, including connectors, shall be indicated by an instrument reading greater than or equal to 500 ppmv above background in accordance with the Fugitive Monitoring requirements in Special Condition No. 15.
- B. The control device identified as EPN FLARE shall comply with either of the following requirements:
- (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
  - (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.
- A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.
- C. Records of the inspections required shall be maintained and if the results of any of the above inspections is not satisfactory, the permit holder shall promptly take necessary corrective action.

### Maintenance, Startup, and Shutdown

36. This permit authorizes the emissions from the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit. **(02/11)**

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A must be revalidated annually. This

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 18

revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

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

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

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

All MSS emissions shall be summed monthly and the rolling 12-month emissions shall be updated on a monthly basis.

37. Process units and facilities, with the exception of those identified in Special Conditions 39, 40, 41 and Attachment A shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements. **(02/11)**
  - A. The process equipment shall be depressurized to the flare prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with VOC partial pressure less than 0.50 psi at the normal process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 19

actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

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

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 20

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

All instances of venting directly to atmosphere per Special Condition 39.E must be documented when occurring as part of any MSS activity. The emissions associated with venting without control must be included in the work order or equivalent for those planned MSS activities identified in Attachment B.

- F. To ensure acceptable off-site impacts no more than the equivalent of all of the equipment in one product line plus one dry area may be opened to the atmosphere in the same hour.
38. Air contaminant concentration shall be measured using an instrument/detector meeting the requirements specified below. **(02/11)**
- A. Lower explosive limit measured with a lower explosive limit detector.
- (1) The detector shall be calibrated daily prior to use according to the HSE Procedures Manual document titled, "Use and Calibration of the Gas Detection Meters," with a certified isobutylene gas standard. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
  - (2) A daily functionality test shall be performed on each detector using the same certified gas standard used for calibration.
39. This permit authorizes emissions from EPN MSS for Tanks 171, 601, 602, 606, and 735 during planned floating roof landings. Tank roofs may only be landed for changes of tank service or tank inspection/maintenance as identified in the permit application. Emissions from change of service tank landings, for which the tank is not cleaned and degassed, shall not exceed 10 tons of VOC in any rolling 12 month period. Tank roof landings include all

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 21

operations when the tank floating roof is on its supporting legs. These emissions are subject to the maximum allowable emission rates indicated on the MAERT. The following requirements apply to tank roof landings. **(02/11)**

- A. The tank liquid level shall be continuously lowered after the tank floating roof initially lands on its supporting legs until the tank has been drained to the maximum extent practicable without entering the tank. Liquid level may be maintained steady for a period of up to two hours if necessary to allow for valve lineups and pump changes necessary to drain the tank.
- B. If the VOC partial pressure of the liquid previously stored in the tank is greater than 0.50 psi at 95°F, tank refilling or degassing of the vapor space under the landed floating roof must begin within 24 hours after the tank has been drained. The tank shall not be opened except as necessary for degassing and cleaning. One manway may be opened to allow access to the tank to remove or de-volatilize the remaining liquid. Other manways or access points may be opened as necessary to remove or de-volatilize the remaining liquid. Wind barriers shall be installed at all open manways and access points to minimize air flow through the tank. Access points shall be closed when not in use. Floating roof tanks may be degassed without control if the VOC partial pressure of the standing liquid in the tank has been reduced to less than 0.02 psia prior to ventilating the tank, as demonstrated in one of the following ways:
  - (1) Low VOC partial pressure liquid that is soluble with the liquid previously stored may be added to the tank to lower the VOC partial pressure of the liquid mixture remaining in the tank to less than 0.02 psia. This liquid shall be added during tank degassing if practicable. The estimated volume of liquid remaining in the drained tank and the volume and type of liquid added shall be recorded. The liquid VOC partial pressure may be estimated based on this information and engineering calculations.
  - (2) If water is added or sprayed into the tank to remove standing VOC, one of the following must be demonstrated:
    - a. VOC measurement is  $\leq 10\%$  LEL.
  - (3) No standing liquid verified through visual inspection.
- C. Tanks shall be refilled as rapidly as practicable until the roof is off its legs with the following exceptions:

## SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 22

- (1) Only one tank with a landed floating roof can be filled at any time at a rate not to exceed 571.4 bbl/hr.

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

- (1) the identification of the tank and emission point number, and any control devices or recovery systems used to reduce emissions;
- (2) the reason for the tank roof landing;
- (3) for the purpose of estimating emissions, the date, time, and other information specified for each of the following events:
  - a. the roof was initially landed,
  - b. all liquid was pumped from the tank to the extent practical,
  - c. start and completion of degassing, and total volumetric flow,
  - d. all standing liquid was removed from the tank or any transfers of low VOC partial pressure liquid to or from the tank including volumes and vapor pressures to reduce tank liquid VOC partial pressure to <0.02 psi,
  - e. if there is liquid in the tank, VOC partial pressure of liquid, start and completion of uncontrolled degassing, and total volumetric flow,
  - f. refilling commenced, liquid filling the tank, and the volume necessary to float the roof; and
  - g. tank roof off supporting legs, floating on liquid;
- (4) the estimated quantity of each air contaminant, or mixture of air contaminants, emitted between events c and g with the data and methods used to determine it. The emissions associated with roof landing activities shall be calculated using the methods described in Section 7.1.3.2 of AP-42 "Compilation of Air Pollution Emission Factors, Chapter 7 - Storage of Organic Liquids" dated

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 23

November 2006 and the permit application.

40. Fixed roof storage tanks are subject to the requirements of Special Condition 39.B. **(02/11)**
41. MSS activities represented in the permit application may be authorized under permit by rule only if the procedures, emission controls, monitoring, and recordkeeping are the same as those required by this permit. **(02/11)**
42. With the exception of the MAERT emission limits, these permit conditions become effective 180 days after this permit has been issued. During this period, monitoring and recordkeeping shall satisfy the requirements of Special Condition 36.A through 36.D. Emissions shall be estimated using good engineering practice and methods to provide reasonably accurate representations for emissions. The basis used for determining the quantity of air contaminants to be emitted shall be recorded. The permit holder may maintain abbreviated records of emissions from Attachment A and B activities as allowed in Special Condition 36 rather than documenting all the information required by Special Condition 36 parts A through D. **(02/11)**

Dated September 14, 2011

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 24

Permit 18836  
Attachment A  
INHERENTLY LOW EMITTING ACTIVITIES

| Activity                                    | Emissions |                 |    |    |                                  |
|---|-----------|-----------------|----|----|----------------------------------|
|   | VOC       | NO <sub>x</sub> | CO | PM | H <sub>2</sub> S/SO <sub>2</sub> |
| Bag Filter Change-out                       |           |                 |    | x  |                                  |
| Calibration of analytical equipment         | x         | x               | x  |    | x                                |
| Catalyst charging/handling                  |           |                 |    | x  |                                  |
| Drum cleaning/filling                       | x         |                 |    |    |                                  |
| Mole sieve transfer                         |           |                 |    | x  |                                  |
| Replacement of analyzer filters and screens | x         |                 |    |    |                                  |
| Cleaning sight glasses                      | x         |                 |    |    |                                  |
| Boiler combustion shut-off                  | x         |                 |    |    |                                  |

Dated February 2, 2011

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 25

Permit 18836

Attachment B

ROUTINE MAINTENANCE ACTIVITIES

Pump repair/replacement

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

Compressor repair/replacement

Heat exchanger repair/replacement

Vessel repair/replacement

Dated February 2, 2011

SPECIAL CONDITIONS

Permit Numbers 18836 and PSDTX1206

Page 26

Permit 18836  
Attachment C  
MSS ACTIVITY SUMMARY

| <b>Facilities</b>           | <b>Description</b>   | <b>Emissions Activity</b>  | <b>EPN</b>   |
|-----------------------------|--|--|--------------|
| all process units           | process unit shutdown/depressurize/drain                                 | vent to flare  | FLARE        |
| all process units           | process unit purge/degas/drain   | vent to atmosphere   | MSS          |
| all process units           | process unit startup   | vent to flare  | FLARE        |
| all process units and tanks | preparation for facility/component repair/replacement                    | vent to flare  | FLARE        |
| all process units and tanks | preparation for facility/component repair/replacement                    | vent to atmosphere   | MSS          |
| all process units and tanks | recovery from facility/component repair/replacement                      | vent to flare  | FLARE        |
| all process units and tanks | recovery from facility/component repair/replacement                      | vent to atmosphere   | MSS          |
| all process units and tanks | preparation for unit turnaround or facility/component repair/replacement | remove liquid  | MSS<br>FLARE |
| all floating roof tanks     | tank roof landing  | operation with landed roof   | MSS          |
| all tanks                   | tank cleaning  | cleaning activity with solvents, steaming activity and venting to atmosphere | MSS          |
| see Attachment A            | miscellaneous low emitting activities                                    | see Attachment A   | MSS          |

Dated February 2, 2011

Emission Sources - Maximum Allowable Emission Rates

Permit Number 18836 and PSDTX1206

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

Air Contaminants Data

| Emission Point No. (1) | Source Name (2)                      | Air Contaminant Name (3) | Emission Rates |         |
|------------------------|--------------------------------------|--------------------------|----------------|---------|
|                        |                                      |                          | lbs/hour       | TPY (4) |
| CB-1                   | Compounding Building 1               | PM <sub>10</sub>         | 0.09           | 0.35    |
|                        |                                      | VOC (6)                  | 9.21           | 3.40    |
| CB-2                   | Compounding Building 2               | PM <sub>10</sub>         | 0.06           | 0.27    |
|                        |                                      | VOC (6)                  |                |         |
| CB-3                   | Compounding Building 3               | PM <sub>10</sub>         | 0.06           | 0.19    |
|                        |                                      | VOC (6)                  |                |         |
| CT-711                 | Cooling Tower (5)                    | VOC                      | 1.05           | 4.60    |
| CT-711A                | Cooling Tower (5)                    | VOC                      | 1.68           | 7.36    |
| FLARE                  | Flare                                | CO                       | 53.50          | 49.90   |
|                        |                                      | NO <sub>x</sub>          | 7.41           | 9.80    |
|                        |                                      | SO <sub>2</sub>          | 0.06           | 0.02    |
|                        |                                      | VOC                      | 45.20          | 61.70   |
|                        | Flare (8)                            | CO                       | 58.70          | 6.33    |
|                        |                                      | NO <sub>x</sub>          | 11.40          | 1.20    |
|                        |                                      | SO <sub>2</sub>          | 1.30           | 0.01    |
|                        |                                      | VOC                      | 64.70          | 12.90   |
| FUGITIVE               | Process Fugitives (5)                | VOC                      | 7.84           | 34.31   |
| HF-415                 | Additive Baghouse                    | PM <sub>10</sub>         | 0.84           | 3.68    |
| HF-481                 | Pelletizing Building Filter Receiver | PM <sub>10</sub>         | 6.00           | 1.40    |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1)  | Source Name (2) | Air Contaminant Name (3) | Emission Rates |         |
|---|-----------------|--------------------------|----------------|---------|
|   |                 |                          | lbs/hour       | TPY (4) |
| <u>BOILERS: Case 1 – Natural Gas/Plant Fuel Gas</u>   |                 |                          |                |         |
| HH-731A   | Boiler A        | CO                       | 5.81           | 25.43   |
|   |                 | NO <sub>x</sub>          | 4.78           | 20.95   |
|   |                 | PM/PM <sub>10</sub>      | 1.11           | 4.88    |
|   |                 | SO <sub>2</sub>          | 1.05           | 4.62    |
|   |                 | VOC                      | 0.22           | 0.97    |
| HH-731B   | Boiler B        | CO                       | 5.81           | 25.43   |
|   |                 | NO <sub>x</sub>          | 4.78           | 20.95   |
|   |                 | PM/PM <sub>10</sub>      | 1.11           | 4.88    |
|   |                 | SO <sub>2</sub>          | 1.05           | 4.62    |
|   |                 | VOC                      | 0.22           | 0.97    |
| <u>BOILERS: Case 2 – Combination of Natural Gas/Plant Fuel Gas plus By-Product Liquid Wax</u> |                 |                          |                |         |
| HH-731A   | Boiler A        | CO                       | 6.26           | 27.42   |
|   |                 | NO <sub>x</sub>          | 8.32           | 28.69   |
|   |                 | PM                       | 10.17          | 24.71   |
|   |                 | PM <sub>10</sub>         | 8.20           | 20.38   |
|   |                 | SO <sub>2</sub>          | 2.90           | 8.67    |
|   |                 | VOC                      | 0.50           | 1.42    |

## Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2)   | Air Contaminant Name (3) | Emission Rates |         |
|------------------------|---|--------------------------|----------------|---------|
|                        |   |                          | lbs/hour       | TPY (4) |
| HH-731B                | Boiler B  | CO                       | 6.26           | 27.42   |
|                        |   | NO <sub>x</sub>          | 8.32           | 28.69   |
|                        |   | PM                       | 10.17          | 24.71   |
|                        |   | PM <sub>10</sub>         | 8.20           | 20.38   |
|                        |   | SO <sub>2</sub>          | 2.90           | 8.67    |
|                        |   | VOC                      | 0.50           | 1.42    |
| HST-101                | Catalyst Preparation Area Condenser (Backup service only) | VOC                      | 61.00          | 0.68    |
| HT-171                 | Tank T-171  | VOC                      | 0.21           | 0.17    |
| HT-601                 | Tank T-601  | VOC                      | 0.51           | 0.97    |
| HT-602                 | Tank T-602  | VOC                      | 2.34           | 2.7     |
| HT-606                 | Tank T-606  | VOC                      | 2.34           | 1.3     |
| HT-608                 | Tank T-608  | VOC                      | 0.20           | <0.01   |
| HT-735                 | Tank T-735  | VOC                      | 1.06           | 1.44    |
| HT-793                 | Tank T-793  | VOC                      | 0.02           | <0.01   |
| HT-794                 | Tank T-794  | VOC                      | 0.02           | <0.01   |
| HT-797                 | Tank T-797  | VOC                      | 0.03           | <0.01   |
| HT-798                 | Tank T-798  | VOC                      | 0.06           | <0.01   |
| HT-799                 | Tank T-799  | VOC                      | 15.05          | 0.19    |
| HT-801                 | Tank T-801  | VOC                      | 5.41           | 0.02    |
| HV-124                 | ATE System Vent   | VOC                      | 11.49          | 1.37    |
| HV-125                 | DEAC System Vent  | VOC                      | 11.39          | 1.17    |
| HV-305                 | Tank V-305  | VOC                      | 0.13           | <0.01   |

## Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2)                        | Air Contaminant Name (3) | Emission Rates |         |
|------------------------|--|--------------------------|----------------|---------|
|                        |  |                          | lbs/hour       | TPY (4) |
| HX-411                 | Extruder CAS<br>(Back up service only) | PM <sub>10</sub>         | 1.90           | 1.90    |
|                        |  | VOC                      | 7.80           | 1.12    |
| WWTP-2                 | Wastewater                             | VOC                      | 0.46           | 2.10    |
| HBL-431                | Blending Silo Vents                    | PM <sub>10</sub>         | 1.74           | 2.69    |
|                        |  | VOC (7)                  | 40.10          | 57.66   |
| HT-441                 | Product Silo Vents                     | PM <sub>10</sub>         | 0.24           | 0.63    |
|                        |  | VOC (7)                  |                |         |
| HF-454                 | Product Filter Receiver                | PM <sub>10</sub>         | 0.65           | 2.85    |
|                        |  | VOC (7)                  |                |         |
| HF-456                 | Product Silos Baghouse                 | PM <sub>10</sub>         | 3.67           | 16.08   |
|                        |  | VOC (7)                  |                |         |
| HTB-451                | Railcar Silo Vents                     | PM <sub>10</sub>         | 0.35           | 0.82    |
|                        |  | VOC (7)                  |                |         |
| HQ-460                 | Bagging/Boxing                         | PM <sub>10</sub>         | 0.09           | 0.17    |
|                        |  | VOC (7)                  |                |         |
| EG-701                 | Diesel Generators                      | CO                       | 2.91           | 0.08    |
|                        |  | NO <sub>x</sub>          | 13.49          | 0.35    |
|                        |  | PM <sub>10</sub>         | 0.96           | 0.02    |
|                        |  | SO <sub>2</sub>          | 0.89           | 0.02    |
|                        |  | VOC                      | 1.09           | 0.03    |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3)               | Emission Rates |         |
|------------------------|-----------------|--|----------------|---------|
|                        |                 |  | lbs/hour       | TPY (4) |
| P-741B                 | Firewater Pumps | CO                                     | 2.34           | 0.06    |
|                        |                 | NO <sub>x</sub>                        | 10.85          | 0.28    |
|                        |                 | PM <sub>10</sub>                       | 0.77           | 0.02    |
|                        |                 | SO <sub>2</sub>                        | 0.72           | 0.02    |
|                        |                 | VOC                                    | 0.88           | 0.02    |
| P-741C                 | Firewater Pumps | CO                                     | 2.34           | 0.06    |
|                        |                 | NO <sub>x</sub>                        | 10.85          | 0.28    |
|                        |                 | PM <sub>10</sub>                       | 0.77           | 0.02    |
|                        |                 | SO <sub>2</sub>                        | 0.72           | 0.02    |
|                        |                 | VOC                                    | 0.88           | 0.02    |
| PWDRLDG                | Power Loading   | VOC                                    | 6.00           | 4.98    |
| MSS                    | MSS Activities  | PM/PM <sub>10</sub> /PM <sub>2.5</sub> | 1.30           | 0.03    |
|                        |                 | VOC                                    | 182.70         | 5.80    |

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The VOC emissions for the compounding buildings, including EPNs CB-1, CB-2, CB-3, are combined into EPN CB-1 for the purposes of this table.
- (7) The VOC emissions for all dry pellet handling equipment, including EPNs HBL-431, HT-441, HTB-451, HF-454, HF-456, and HQ-460, are combined into EPN HBL-431 for the purposes of this table.
- (8) Emissions during MSS.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/year 8,760

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Date: August 2, 2012