

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
The Lubrizol Corporation

AUTHORIZING THE OPERATION OF  
Deer Park Facility  
Anglamol Unit  
Other Basic Organic Chemical Manufacturing

LOCATED AT  
Harris County, Texas  
Latitude 29° 43' 5" Longitude 95° 6' 57"  
Regulated Entity Number: RN100221589

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

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

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

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

Permit No:     O2191     Issuance Date:     July 11, 2018    

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

## **Special Terms and Conditions:**

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

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.890 which incorporates the 40 CFR Part 63 Subpart by reference.
- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
  - (i) Title 30 TAC § 101.352 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.359 (relating to Reporting)
  - (vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
  - (vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
  - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)

- (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
- I. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:
  - (i) Title 30 TAC § 101.393 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.394 (relating to Allocation of Allowances)
  - (iii) Title 30 TAC § 101.396 (relating to Allowance Deductions)
  - (iv) Title 30 TAC § 101.399 (relating to Allowance Banking and Trading)
  - (v) Title 30 TAC § 101.400 (relating to Reporting)
  - (vi) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
  - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
  - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
  - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
  - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
  - (3) Records of all observations shall be maintained.
  - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

- (5) Compliance Certification:
- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
  - (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

- B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
  - (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
    - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
    - (2) Records of all observations shall be maintained.
    - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier

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

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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

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

- (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
- (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)

- (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. 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.
- 5. 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).
- 6. For miscellaneous chemical process facilities with Group 2 wastewater streams subject to wastewater operations requirements in 40 CFR Part 63, Subpart FFFF, the permit holder shall comply with the requirements of 40 CFR § 63.132(a), (a)(1), (a)(1)(i), and (a)(3) as specified in § 63.2485(a) (Title 30 TAC Chapter 113, Subchapter C, § 113.890 incorporated by reference).

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

- 7. 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
- 8. 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.
- 9. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

### **Compliance Requirements**

- 10. 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.

11. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
      - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
12. Use of Emission Credits to comply with applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
13. Use of Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:

- (i) Title 30 TAC Chapter 115
  - (ii) Title 30 TAC Chapter 117
  - (iii) If applicable, offsets for Title 30 TAC Chapter 116
  - (iv) Temporarily exceed state NSR permit allowables
- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
  - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
  - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
  - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
  - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Risk Management Plan**

14. 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**

15. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

### **Permit Location**

16. 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)**

17. 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**

**Permit Shield**

**New Source Review Authorization References**

**Applicable Requirements Summary**

**Unit Summary** ..... 14

**Applicable Requirements Summary** ..... 16

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**

| <b>Unit/Group/<br/>Process ID No.</b> | <b>Unit Type</b>                                     | <b>Group/Inclusive<br/>Units</b> | <b>SOP Index No.</b> | <b>Regulation</b>                                     | <b>Requirement Driver</b> |
|---------------------------------------|--|----------------------------------|----------------------|---|---------------------------|
| AG-12                                 | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS VENTS | N/A                              | R5121-0002           | 30 TAC Chapter 115, Vent Gas<br>Controls              | No changing attributes.   |
| AG-12                                 | CHEMICAL MANUFACTURING<br>PROCESS                    | N/A                              | 63FFFF-BPV           | 40 CFR Part 63, Subpart FFFF                          | No changing attributes.   |
| AG-3                                  | STORAGE TANKS/VESSELS                                | N/A                              | R5112-0004           | 30 TAC Chapter 115, Storage of VOCs                   | No changing attributes.   |
| AG-5                                  | STORAGE TANKS/VESSELS                                | N/A                              | R5112-0002           | 30 TAC Chapter 115, Storage of VOCs                   | No changing attributes.   |
| ANGL-FUG                              | FUGITIVE EMISSION UNITS                              | N/A                              | R5352-ALL            | 30 TAC Chapter 115, Pet. Refinery &<br>Petrochemicals | No changing attributes.   |
| BL-4                                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS VENTS | N/A                              | R5121-0002           | 30 TAC Chapter 115, Vent Gas<br>Controls              | No changing attributes.   |
| BL-4                                  | CHEMICAL MANUFACTURING<br>PROCESS                    | N/A                              | 63FFFF-BPV           | 40 CFR Part 63, Subpart FFFF                          | No changing attributes.   |
| BL-5                                  | EMISSION<br>POINTS/STATIONARY<br>VENTS/PROCESS VENTS | N/A                              | R5121-0002           | 30 TAC Chapter 115, Vent Gas<br>Controls              | No changing attributes.   |
| BL-5                                  | CHEMICAL MANUFACTURING<br>PROCESS                    | N/A                              | 63FFFF-BPV           | 40 CFR Part 63, Subpart FFFF                          | No changing attributes.   |
| P&F28                                 | CHEMICAL MANUFACTURING<br>PROCESS                    | N/A                              | R5167                | 30 TAC Chapter 115, Batch Processes                   | No changing attributes.   |
| P&F28                                 | CHEMICAL MANUFACTURING<br>PROCESS                    | N/A                              | 63FFFF-BPV           | 40 CFR Part 63, Subpart FFFF                          | No changing attributes.   |
| R-1                                   | STORAGE TANKS/VESSELS                                | N/A                              | R5112-0002           | 30 TAC Chapter 115, Storage of VOCs                   | No changing attributes.   |
| RA-1                                  | STORAGE TANKS/VESSELS                                | N/A                              | R5112-0002           | 30 TAC Chapter 115, Storage of VOCs                   | No changing attributes.   |
| RA-2                                  | STORAGE TANKS/VESSELS                                | N/A                              | R5112-0002           | 30 TAC Chapter 115, Storage of VOCs                   | No changing attributes.   |
| RA2-LR                                | LOADING/UNLOADING                                    | N/A                              | R5211-0001           | 30 TAC Chapter 115, Loading and                       | No changing attributes.   |



### Unit Summary

| Unit/Group/<br>Process ID No. | Unit Type             | Group/Inclusive<br>Units | SOP Index No. | Regulation                          | Requirement Driver      |
|-------------------------------|-----------------------|--------------------------|---------------|-------------------------------------|-------------------------|
|                               | OPERATIONS            |                          |               | Unloading of VOC                    |                         |
| RA-7                          | STORAGE TANKS/VESSELS | N/A                      | R5112-0002    | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| SS-21                         | STORAGE TANKS/VESSELS | N/A                      | R5112-0004    | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| SS-32                         | STORAGE TANKS/VESSELS | N/A                      | R5112-0007    | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| SS-33                         | STORAGE TANKS/VESSELS | N/A                      | R5112-0007    | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| SS-34                         | STORAGE TANKS/VESSELS | N/A                      | R5112-0007    | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

**Applicable Requirements Summary**

| <b>Unit Group Process ID No.</b> | <b>Unit Group Process Type</b> | <b>SOP Index No.</b> | <b>Pollutant</b> | <b>State Rule or Federal Regulation Name</b> | <b>Emission Limitation, Standard or Equipment Specification Citation</b> | <b>Textual Description (See Special Term and Condition 1.B.)</b>  | <b>Monitoring And Testing Requirements</b>   | <b>Recordkeeping Requirements (30 TAC § 122.144)</b>   | <b>Reporting Requirements (30 TAC § 122.145)</b>   |
|----------------------------------|--------------------------------|----------------------|------------------|--|--|---|--|--|--|
| AG-12                            | EP                             | R5121-0002           | VOC              | 30 TAC Chapter 115, Vent Gas Controls        | § 115.122(a)(1)<br>§ 115.121(a)(1)<br>§ 115.122(a)(1)(A)                 | Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O2 for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2)                    | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2)   | None   |
| AG-12                            | PRO                            | 63FFFF-BPV           | 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(e)<br>§ 63.2525(e)(2)<br>§ 63.2525(e)(3)<br>[G]§ 63.2525(e)(4)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 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>§ 63.2520(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>[G]§ 63.2520(e)(5)(iii)<br>§ 63.2520(e)(5)(iv)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9) |
| AG-12                            | PRO                            | 63FFFF-BPV           | 112(B) HAPS      | 40 CFR Part 63, Subpart FFFF                 | § 63.2460(a)<br>§ 63.2450(b)<br>§ 63.2460(b)                             | You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in  | [G]§ 63.1257(d)(2)(i)<br>[G]§ 63.1257(d)(2)(ii)<br>§ 63.2460(b)(1)<br>§ 63.2460(b)(2)<br>§ 63.2460(b)(7) | § 63.2460(b)(6)(i)<br>§ 63.2460(b)(7)  | § 63.2460(b)(6)<br>§ 63.2460(b)(6)(i)<br>§ 63.2460(b)(6)(ii)<br>§ 63.2460(b)(7)  |

**Applicable Requirements Summary**

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|---|---|
|                           |                         |               |           |  |   | §63.2460(b) and (c).  |                                     |   |   |
| AG-3                      | EU                      | R5112-0004    | VOC       | 30 TAC Chapter 115, Storage of VOCs                | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| AG-5                      | EU                      | R5112-0002    | VOC       | 30 TAC Chapter 115, Storage of VOCs                | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6)  | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title. | None                                | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)                             | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5)  | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title.   | None                                | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)                             | None                                      |

**Applicable Requirements Summary**

| <b>Unit Group Process ID No.</b> | <b>Unit Group Process Type</b> | <b>SOP Index No.</b> | <b>Pollutant</b> | <b>State Rule or Federal Regulation Name</b>       | <b>Emission Limitation, Standard or Equipment Specification Citation</b>  | <b>Textual Description (See Special Term and Condition 1.B.)</b>   | <b>Monitoring And Testing Requirements</b>  | <b>Recordkeeping Requirements (30 TAC § 122.144)</b>  | <b>Reporting Requirements (30 TAC § 122.145)</b> |
|----------------------------------|--------------------------------|----------------------|------------------|--|---|--|---|---|--|
| ANGL-FUG                         | EU                             | R5352-ALL            | VOC              | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10)   | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.                                    | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None   |
| ANGL-FUG                         | EU                             | R5352-ALL            | VOC              | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11)   | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None   |
| ANGL-FUG                         | EU                             | R5352-ALL            | VOC              | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13)   | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None   |
| ANGL-FUG                         | EU                             | R5352-ALL            | VOC              | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2)<br>§ 115.352(9)  | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).   | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None   |
| ANGL-FUG                         | EU                             | R5352-ALL            | VOC              | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(2)(C) | No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as                               | § 115.354(1)<br>§ 115.354(11)<br>§ 115.354(13)(A)<br>§ 115.354(13)(B)<br>§ 115.354(13)(C)<br>§ 115.354(13)(D)<br>§ 115.354(13)(E) | § 115.352(7)<br>§ 115.354(13)(D)<br>§ 115.354(13)(E)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3) | [G]§ 115.358(g)                                  |

**Applicable Requirements Summary**

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
|                           |                         |               |           |  | § 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.352(8)<br>§ 115.357(8)<br>§ 115.358(c)(1)<br>[G]§ 115.358(h) | defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring.   | § 115.354(13)(F)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.358(c)(2)<br>§ 115.358(d)<br>[G]§ 115.358(e)<br>§ 115.358(f) | § 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>[G]§ 115.356(4)<br>§ 115.356(5)   |   |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(7)<br>§ 115.357(1)   | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(7)   | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355  | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)      | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)  | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds  | § 115.354(1)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)   | [G]§ 115.354(7)                           |

**Applicable Requirements Summary**

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

**Applicable Requirements Summary**

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

**Applicable Requirements Summary**

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



**Applicable Requirements Summary**

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|--|---|
|                           |                         |               |           |  | § 115.357(8)   |   |   |  |   |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(12)<br>§ 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.    | § 115.354(1)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)                  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)                  | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8)                 | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.    | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1) | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)  | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or | [G]§ 115.355  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  | None                                      |

**Applicable Requirements Summary**

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
|                           |                         |               |           |  | § 115.352(5)<br>§ 115.352(7)<br>§ 115.357(3)<br>§ 115.357(8)  | sound.   |  |   |   |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(4)<br>§ 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1) | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)                | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(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) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
|                           |                         |               |           |  | § 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8)  | million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.  | [G]§ 115.355   | § 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  |   |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(4)<br>§ 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1) | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| ANGL-FUG                  | EU                      | R5352-ALL     | VOC       | 30 TAC Chapter 115, Pet. Refinery                  | § 115.352(1)(B)<br>§ 115.352(1)   | No pump seals shall be allowed to have a VOC leak,   | § 115.354(1)<br>§ 115.354(10)  | § 115.352(7)<br>§ 115.354(10)   | 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)   |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|--|---|
|                           |                         |               |             | & Petrochemicals                      | § 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8) | for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355          | § 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)                              |   |
| BL-4                      | EP                      | R5121-0002    | VOC         | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1)<br>§ 115.121(a)(1)<br>§ 115.122(a)(1)(A)  | Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O2 for combustion devices).                                     | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2) | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2)   | None  |
| BL-4                      | PRO                     | 63FFFF-BPV    | 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(e)<br>§ 63.2525(e)(2)<br>§ 63.2525(e)(3)<br>[G]§ 63.2525(e)(4)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 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>§ 63.2520(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) |

**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)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>[G]§ 63.2520(e)(5)(iii)<br>§ 63.2520(e)(5)(iv)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9)  |
| BL-4                      | PRO                     | 63FFFF-BPV    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2460(a)<br>§ 63.2450(b)<br>§ 63.2460(b)                      | You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).                                   | [G]§ 63.1257(d)(2)(i)<br>[G]§ 63.1257(d)(2)(ii)<br>§ 63.2460(b)(1)<br>§ 63.2460(b)(2)<br>§ 63.2460(b)(7) | § 63.2460(b)(6)(i)<br>§ 63.2460(b)(7)  | § 63.2460(b)(6)<br>§ 63.2460(b)(6)(i)<br>§ 63.2460(b)(6)(ii)<br>§ 63.2460(b)(7)  |
| BL-5                      | EP                      | R5121-0002    | VOC         | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(1)<br>§ 115.121(a)(1)<br>§ 115.122(a)(1)(A)          | Vent gas affected by §115.121(a)(1) must be controlled properly with a control efficiency > 90% or to a VOC concentration of no more than 20 ppmv (dry, corrected to 3% O2 for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2)                    | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2)   | None   |
| BL-5                      | PRO                     | 63FFFF-BPV    | 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(e)<br>§ 63.2525(e)(2)<br>§ 63.2525(e)(3)<br>[G]§ 63.2525(e)(4)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 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>§ 63.2520(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) |

**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)(5)<br>§ 63.2520(e)(5)(i)<br>[G]§ 63.2520(e)(5)(ii)<br>[G]§ 63.2520(e)(5)(iii)<br>§ 63.2520(e)(5)(iv)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9)   |
| BL-5                      | PRO                     | 63FFFF-BPV    | 112(B)<br>HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2460(a)<br>§ 63.2450(b)<br>§ 63.2460(b)                      | You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c).  | [G]§ 63.1257(d)(2)(i)<br>[G]§ 63.1257(d)(2)(ii)<br>§ 63.2460(b)(1)<br>§ 63.2460(b)(2)<br>§ 63.2460(b)(7) | § 63.2460(b)(6)(i)<br>§ 63.2460(b)(7)  | § 63.2460(b)(6)<br>§ 63.2460(b)(6)(i)<br>§ 63.2460(b)(6)(ii)<br>§ 63.2460(b)(7)  |
| P&F28                     | PRO                     | R5167         | VOC            | 30 TAC Chapter 115, Batch Processes   | § 115.167(2)<br>§ 115.162(3)                                      | Combined vents from a batch process train or single unit operations that meet the criteria in § 115.162(2)(A) or (B), respectively, are exempt from the requirements of this division, except for §§115.161(b) and (C), 115.164, and 115.166(2). | § 115.164(1)<br>§ 115.164(2)<br>§ 115.166<br>[G]§ 115.166(2)   | § 115.166<br>[G]§ 115.166(2)   | None   |
| P&F28                     | EP                      | 63FFFF-BPV    | 112(B)<br>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(e)<br>§ 63.2525(e)(2)<br>§ 63.2525(e)(3)<br>[G]§ 63.2525(e)(4)<br>§ 63.2525(f)<br>§ 63.2525(j) | § 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>§ 63.2520(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) |

**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)(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>[G]§ 63.2520(e)(5)(iii)<br>§ 63.2520(e)(5)(iv)<br>§ 63.2520(e)(6)<br>§ 63.2520(e)(7)<br>§ 63.2520(e)(9) |
| P&F28                     | EP                      | 63FFFF-BPV    | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF          | § 63.2460(a)<br>§ 63.2450(b)<br>§ 63.2460(b)                      | You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c). | [G]§ 63.1257(d)(2)(i)<br>[G]§ 63.1257(d)(2)(ii)<br>§ 63.2460(b)(1)<br>§ 63.2460(b)(2)<br>§ 63.2460(b)(7) | § 63.2460(b)(6)(i)<br>§ 63.2460(b)(7)                 | § 63.2460(b)(6)<br>§ 63.2460(b)(6)(i)<br>§ 63.2460(b)(6)(ii)<br>§ 63.2460(b)(7)  |
| R-1                       | EU                      | R5112-0002    | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.       | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None   |
| RA-1                      | EU                      | R5112-0002    | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.       | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None   |
| RA-2                      | EU                      | R5112-0002    | VOC         | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.       | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None   |
| RA2-LR                    | EU                      | R5211-0001    | VOC         | 30 TAC Chapter 115, Loading and       | § 115.217(a)(1)<br>§ 115.214(a)(1)(B)                             | Vapor pressure (at land-based operations). All land-based   | § 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)  | § 115.216<br>§ 115.216(2)                             | None   |

**Applicable Requirements Summary**

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|---|
|                           |                         |               |           | Unloading of VOC                      | § 115.214(a)(1)(D)<br>§ 115.214(a)(1)(D)(i)                       | loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.           | § 115.215<br>§ 115.215(4)           | § 115.216(3)(B)   |   |
| RA-7                      | EU                      | R5112-0002    | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |
| SS-21                     | EU                      | R5112-0004    | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| SS-32                     | EU                      | R5112-0007    | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| SS-33                     | EU                      | R5112-0007    | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| SS-34                     | EU                      | R5112-0007    | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117                        | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |



**Permit Shield**

**Permit Shield ..... 32**

### 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 |                                     |   |
| AG-12              | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Unit is a process tank which does not meet the definition of a storage vessel.  |
| AG-12              | N/A                   | 40 CFR Part 60, Subpart Kb          | Vessel is not a storage tank as defined in 60.111b. It is a process tank.   |
| AG-3               | N/A                   | 40 CFR Part 60, Subpart Kb          | A storage vessel having a capacity greater than 151 cubic meters and storing a VOL with a maximum true vapor pressure <3.5KPa.  |
| AG-3               | N/A                   | 40 CFR Part 63, Subpart FFFF        | A storage tank storing organic liquids that contain HAP only as impurities.   |
| AG-5               | N/A                   | 40 CFR Part 60, Subpart Kb          | A storage vessel having a capacity greater than or equal to 75 cubic meters and less than 151 cubic meters and storing a VOL with a maximum true vapor pressure <15KPa. |
| AG-5               | N/A                   | 40 CFR Part 63, Subpart FFFF        | A storage tank storing organic liquids that contain HAP only as impurities.   |
| ANGL-FUG           | N/A                   | 40 CFR Part 63, Subpart FFFF        | Equipment is not in organic HAP service as defined in § 63.2520.  |
| BL-4               | N/A                   | 40 CFR Part 60, Subpart Kb          | These vessels are process tanks and do not meet the definition of a storage vessel.   |
| BL-5               | N/A                   | 30 TAC Chapter 115, Storage of VOCs | Unit is a process tank that does not meet the definition of a storage tank.   |
| BL-5               | N/A                   | 40 CFR Part 60, Subpart Kb          | These vessels are process tanks and do not meet the definition of a storage vessel.   |
| FI-07              | N/A                   | 30 TAC Chapter 117, Commercial      | Maximum rated capacity of incinerator < 40 MMBtu/hr.  |
| R-1                | N/A                   | 40 CFR Part 60, Subpart Kb          | Storage vessel capacity is less than 75 cubic meters.   |

### 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 |                              |   |
| RA-1               | N/A                   | 40 CFR Part 60, Subpart Kb   | Storage vessel capacity is less than 75 cubic meters.   |
| RA-2               | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is less than 75 cubic meters.   |
| RA-2               | N/A                   | 40 CFR Part 63, Subpart FFFF | A storage tank storing organic liquids that contain HAP only as impurities.   |
| RA-7               | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is less than 75 cubic meters.   |
| SS-21              | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is greater than or equal to 151 cubic meters and tank is storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| SS-32              | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is greater than or equal to 151 cubic meters and tank is storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| SS-32              | N/A                   | 40 CFR Part 63, Subpart FFFF | A storage tank storing organic liquids that contain HAP only as impurities.   |
| SS-33              | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is greater than or equal to 151 cubic meters and tank is storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| SS-33              | N/A                   | 40 CFR Part 63, Subpart FFFF | A storage tank storing organic liquids that contain HAP only as impurities.   |
| SS-34              | N/A                   | 40 CFR Part 60, Subpart Kb   | Tank capacity is greater than or equal to 151 cubic meters and tank is storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| SS-34              | N/A                   | 40 CFR Part 63, Subpart FFFF | A storage tank storing organic liquids that contain HAP only as impurities.   |

**New Source Review Authorization References**

**New Source Review Authorization References ..... 35**

**New Source Review Authorization References by Emission Unit..... 36**

### 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>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.: 22048  | Issuance Date: 12/16/2016    |
| <b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>  |                              |
| Number: 106.472   | Version No./Date: 09/04/2000 |

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

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

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| AG-12                     | PROCESS VESSEL                 | 22048                           |
| AG-3                      | STORAGE TANK                   | 22048                           |
| AG-5                      | STORAGE TANK                   | 22048                           |
| ANGL-FUG                  | ANGLAMOL AREA FUGITIVES        | 22048                           |
| BL-4                      | PROCESS VESSEL                 | 22048                           |
| BL-5                      | PROCESS VESSEL                 | 22048                           |
| FI-07                     | THERMAL OXIDIZER               | 22048                           |
| P&F28                     | PLATE AND FRAME FILTER VENT    | 22048                           |
| R-1                       | STORAGE TANK                   | 22048                           |
| RA-1                      | STORAGE TANK                   | 106.472/09/04/2000              |
| RA2-LR                    | LOADING RACK                   | 106.472/09/04/2000              |
| RA-2                      | STORAGE TANK                   | 22048                           |
| RA-7                      | STORAGE TANK                   | 22048                           |
| SS-21                     | STORAGE TANK                   | 22048                           |
| SS-32                     | STORAGE TANK                   | 22048                           |
| SS-33                     | STORAGE TANK                   | 22048                           |
| SS-34                     | STORAGE TANK                   | 22048                           |

**Appendix A**

**Acronym List ..... 38**

## Acronym List

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

|                  |   |
|------------------|---|
| ACFM             | actual cubic feet per minute  |
| AMOC             | alternate means of control  |
| ARP              | Acid Rain Program   |
| ASTM             | American Society of Testing and Materials                                 |
| B/PA             | Beaumont/Port Arthur (nonattainment area)                                 |
| CAM              | Compliance Assurance Monitoring   |
| CD               | control device  |
| CEMS             | continuous emissions monitoring system                                    |
| CFR              | Code of Federal Regulations   |
| COMS             | continuous opacity monitoring system                                      |
| CVS              | closed vent system  |
| D/FW             | Dallas/Fort Worth (nonattainment area)                                    |
| EP               | emission point  |
| EPA              | U.S. Environmental Protection Agency                                      |
| EU               | emission unit   |
| FCAA Amendments  | Federal Clean Air Act Amendments  |
| FOP              | federal operating permit  |
| gr/100 scf       | grains per 100 standard cubic feet  |
| HAP              | hazardous air pollutant   |
| H/G/B            | Houston/Galveston/Brazoria (nonattainment area)                           |
| H <sub>2</sub> S | hydrogen sulfide  |
| ID No.           | identification number   |
| lb/hr            | pound(s) per hour   |
| MACT             | Maximum Achievable Control Technology (40 CFR Part 63)                    |
| MMBtu/hr         | Million British thermal units per hour                                    |
| NA               | nonattainment   |
| N/A              | not applicable  |
| NADB             | National Allowance Data Base  |
| NESHAP           | National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) |
| NO <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  |
| PEMS             | predictive emissions monitoring system                                    |
| PM               | particulate matter  |
| ppmv             | parts per million by volume   |
| PRO              | process unit  |
| PSD              | prevention of significant deterioration                                   |
| psia             | pounds per square inch absolute   |
| SIP              | state implementation plan   |
| SO <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   |