

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Eagle Rock Field Services, L.P.

AUTHORIZING THE OPERATION OF

Red Deer Gas Plant
Natural Gas Liquids

LOCATED AT

Roberts County, Texas

Latitude 35° 47' 12" Longitude 100° 37' 38"

Regulated Entity Number: RN102546785

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: O3472 Issuance Date: October 25, 2012

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 ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. Emission units subject to 40 CFR Part 63, Subpart HH as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.390 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)

- J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months,

observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) 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. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

C. 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 following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:

- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
- B. Title 40 CFR § 60.8 (relating to Performance Tests)
- C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
- D. Title 40 CFR § 60.12 (relating to Circumvention)

- E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

6. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
- A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall conduct a once a month visual, audible, and/or olfactory inspection of the capture system to detect leaking components for any capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system

is not working properly, the permit holder shall promptly take necessary corrective actions.

- F. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall conduct a once a month visual, audible, and/or olfactory inspection of the capture system to detect leaking components for any capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions.
 - G. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
7. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

8. 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

9. 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.
10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
 - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
 - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
11. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
 - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Applicable requirements of 30 TAC § 116.620 for Installation and/or Modification of Oil and Gas Facilities based on the information contained in the registration application.

Compliance Requirements

12. 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.

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

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.

Permit Location

15. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary13

Applicable Requirements Summary15

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

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|-------------------------|
| FL-1 | Flares | N/A | R1111-001 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| FL-1 | Flares | N/A | 60A-001 | 40 CFR Part 60, Subpart A | No changing attributes. |
| FUG-KKK | Fugitive Emission Units | N/A | 60KKK-ALL | 40 CFR Part 60, Subpart KKK | No changing attributes. |
| DEA | Gas Sweetening/Sulfur Recovery Units | N/A | 60LLL-001 | 40 CFR Part 60, Subpart LLL | No changing attributes. |
| V-1 | Glycol Dehydration | N/A | 63HH-001 | 40 CFR Part 63, Subpart HH | No changing attributes. |
| C-1.2 | Stationary Reciprocating Int. Comb. Engines | N/A | SP77131 | 30 TAC Chapter 116, NSR Permits | No changing attributes |
| C-1.2 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-2 | Stationary Reciprocating Int. Comb. Engines | N/A | SP77131 | 30 TAC Chapter 116, NSR Permits | No changing attributes |
| C-2 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-3 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|---------------------------------|-------------------------|
| C-4.2 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-5 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-6 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-7 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| C-8 | Stationary Reciprocating Int. Comb. Engines | N/A | 63ZZZZ-001 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|--|
| FL-1 | EP | R1111-001 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(B) § 111.111(a)(1)(E) | Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972. | [G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary | None | None |
| FL-1 | CD | 60A-001 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(f) | An owner or operator shall use this provision instead of §60.485(d)(1). Each piece of equipment is presumed to be in wet gas service unless it is demonstrated that the piece of equipment is not. | § 60.632(f) | § 60.632(f) | None |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(d) | Equipment in vacuum service to comply with §60.482-1(a), (b), and (d) and §60.482-2 to §60.482-10, except as provided in §60.633 or §60.482-1(d). | None | § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) | None |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-3 [G]§ 60.482-9 | Comply with the requirements for compressors as stated in §60.482-3 and §60.482-1(a), (b) and (d), except as provided in §60.633. | [G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |

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) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|--|--|
| | | | | | | | § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(h) § 60.486(j) § 60.632(e) § 60.635(a) | |
| FUG-KKK | EU | 6oKKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-2 [G]§ 60.482-9 § 60.633(d) | Comply with the requirements for pumps in light liquid service as stated in §60.482-2 and §60.482-1(a), (b) and (d), except as provided in §60.633. | [G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 6oKKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-4 [G]§ 60.482-9 § 60.633(b)(1) § 60.633(b)(2) [G]§ 60.633(b)(3) [G]§ 60.633(b)(4) § 60.633(d) | Comply with the requirements for pressure relief devices in gas/vapor service as stated in §60.482-4 and 60.482-1(a), (b) and (d), except as provided in §60.633. | [G]§ 60.482-4 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) § 60.632(e) § 60.635(a) [G]§ 60.635(b) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 6oKKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-6 [G]§ 60.482-9 | Comply with the requirements for open-ended valves or lines as stated in §60.482-6 and §60.482-1(a), (b) and (d), except as provided in §60.633. | § 60.485(a) [G]§ 60.485(b) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 6oKKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) | Comply with the requirements for valves in gas/vapor service as stated | [G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| | | | | | [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 60.632(b) § 60.633(d) | in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633. | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(d) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 | Comply with the requirements for pumps in heavy liquid service as stated in §60.482-8, except as provided in §60.633. | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-7 [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 § 60.632(b) § 60.633(d) | Comply with the requirements for valves in light-liquid service as stated in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633. | [G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 | Comply with the requirements for valves in heavy liquid service as stated in §60.482-8, except as provided in §60.633. | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) § 60.485(d) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| | | | | | [G]§ 60.482-9 | as provided in §60.633. | § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | § 60.486(e)(1) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 | Comply with the requirements for flanges and other connectors as stated in §60.482-8, except as provided in §60.633. | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.633(f) | Reciprocating compressors in wet gas service are exempt from the compressor control requirements of §60.482-3. | None | § 60.486(j) § 60.635(a) § 60.635(c) | None |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 | Comply with the requirements for pressure relief devices in light-liquid service as stated in §60.482-8, except as provided in §60.633. | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) § 60.632(e) § 60.635(a) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) [G]§ 60.636 |
| FUG-KKK | EU | 60KKK-ALL | VOC | 40 CFR Part 60, Subpart KKK | § 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-8 [G]§ 60.482-9 | Comply with the requirements for pressure relief devices in heavy-liquid service as stated in §60.482-8, except as | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) § 60.485(d) § 60.485(d)(2) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.632(e) |

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) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|--|---|---|
| | | | | | | provided in §60.633. | § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h) | § 60.486(j) § 60.632(e) § 60.635(a) | [G]§ 60.636 |
| DEA | PRO | 6oLLL-001 | SO ₂ | 40 CFR Part 60, Subpart LLL | § 60.640(b) | Facilities that have a design capacity less than 2 LT/D of H ₂ S in the acid gas (expressed as sulfur) are required to comply with §60.647(c) but not §60.642 through §60.646. | None | § 60.647(c) | None |
| V-1 | EU | 63HH-001 | 112(B) HAPS | 40 CFR Part 63, Subpart HH | § 63.764(e)(1)(ii) | The actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere shall be less than 0.90 megagram per year, | § 63.772(b)(2) § 63.772(b)(2)(i) | § 63.774(d)(1) § 63.774(d)(1)(ii) | None |
| C-1.2 | EU | SP77131 | NO _x | 30 TAC Chapter 116, NSR Permits | § 106.512(2)(A)(i) | Standard Permit Number 77131 references § 106.512 | ** See CAM Summary | None | None |
| C-1.2 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-2 | EU | SP77131 | NO _x | 30 TAC Chapter 116, NSR Permits | § 106.512(2)(A)(i) | Standard Permit Number 77131 references § 106.512 | ** See CAM Summary | None | None |
| C-2 | EU | 63ZZZZ- | 112(B) | 40 CFR Part 63, | § 63.6603 | The permit holder shall | The permit holder | The permit holder shall | The permit holder shall |

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) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|--|---|---|
| | | 001 | HAPS | Subpart ZZZZ | The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-3 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-4.2 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-5 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|--|---|---|
| | | | | | CFR Part 63, Subpart ZZZZ | | | | |
| C-6 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-7 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| C-8 | EU | 63ZZZZ-001 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6603 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |

Additional Monitoring Requirements

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CAM Summary

| Unit/Group/Process Information | |
|--|--|
| ID No.: C-1.2 | |
| Control Device ID No.: C-1.2 | Control Device Type: Catalytic Converter |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 116, NSR Permits | SOP Index No.: SP77131 |
| Pollutant: NO _x | Main Standard: § 106.512(2)(A)(i) |
| Monitoring Information | |
| Indicator: Fuel Consumption | |
| Minimum Frequency: once per day | |
| Averaging Period: n/a* | |
| Deviation Limit: It is a deviation if fuel consumption > 11.6 Mscf/hr | |
| CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the fuel flow meter is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 5%. | |

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

CAM Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: C-1.2 | |
| Control Device ID No.: C-1.2 | Control Device Type: Catalytic Converter |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 116, NSR Permits | SOP Index No.: SP77131 |
| Pollutant: NO _x | Main Standard: § 106.512(2)(A)(i) |
| Monitoring Information | |
| Indicator: NO _x Concentration | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a* | |
| Deviation Limit: It is a deviation if NO _x emissions > 2.0 g/bhp-hr | |
| <p>CAM Text: Use a portable analyzer to monitor nitrogen oxides and oxygen concentration in the exhaust stream of the control device. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). NO_x Emissions shall be corrected/calculated in units of the underlying applicable emission limitation (grams per horsepower-hour, pounds per MMBtu, pounds per hour).</p> | |

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

CAM Summary

| Unit/Group/Process Information | |
|--|--|
| ID No.: C-2 | |
| Control Device ID No.: C-2 | Control Device Type: Catalytic Converter |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 116, NSR Permits | SOP Index No.: SP77131 |
| Pollutant: NO _x | Main Standard: § 106.512(2)(A)(i) |
| Monitoring Information | |
| Indicator: Fuel Consumption | |
| Minimum Frequency: once per day | |
| Averaging Period: n/a* | |
| Deviation Limit: It is a deviation if fuel consumption > 7.5 Mscf/hr | |
| CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the fuel flow meter is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within ± 5%. | |

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

CAM Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: C-2 | |
| Control Device ID No.: C-2 | Control Device Type: Catalytic Converter |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 116, NSR Permits | SOP Index No.: SP77131 |
| Pollutant: NO _x | Main Standard: § 106.512(2)(A)(i) |
| Monitoring Information | |
| Indicator: NO _x Concentration | |
| Minimum Frequency: once per quarter | |
| Averaging Period: n/a* | |
| Deviation Limit: It is a deviation if NO _x emissions > 2.0 g/bhp-hr | |
| <p>CAM Text: Use a portable analyzer to monitor nitrogen oxides and oxygen concentration in the exhaust stream of the control device. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method - Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). NO_x Emissions shall be corrected/calculated in units of the underlying applicable emission limitation (grams per horsepower-hour, pounds per MMBtu, pounds per hour).</p> | |

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

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|--|-----------------------------------|
| ID No.: FL-1 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 111, Visible Emissions | SOP Index No.: R1111-001 |
| Pollutant: OPACITY | Main Standard: § 111.111(a)(1)(B) |
| Monitoring Information | |
| Indicator: Visible Emissions | |
| Minimum Frequency: Once per day | |
| Averaging Period: n/a | |
| Deviation Limit: If visible emissions are observed report as a deviation; or determine visible emissions consistent with Test Method 22 or Test Method 9. | |
| <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded in the flare operation log. A notation in the flare operation log should include the time of day and whether or not the flare had visible emissions. For flares operated less frequently than daily, the observation shall be made for each operation. The flare operator shall record at least 98% of these required observations. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes.</p> <p>If visible emissions are observed the permit holder shall either report a deviation or determine visible emissions consistent with Test Method 22 or Test Method 9.</p> | |

Permit Shield

Permit Shield 29

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 | | |
| FUG-KKK | N/A | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | The facility is not located in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso or Houston-Galveston-Brazoria areas. |
| DEGREASER1 | N/A | 30 TAC Chapter 115, Degreasing Processes | The degreaser is not located in a nonattainment area. |
| DEGREASER1 | N/A | 40 CFR Part 63, Subpart T | The unit does not use halogenated solvent. |
| LOAD-01 | N/A | 30 TAC Chapter 115, Loading and Unloading of VOC | The loading facility is not located in the counties defined in § 115.10. |
| LOAD-02 | N/A | 30 TAC Chapter 115, Loading and Unloading of VOC | The loading facility is not located in the counties defined in § 115.10. |
| LOAD-03 | N/A | 30 TAC Chapter 115, Loading and Unloading of VOC | The loading facility is not located in the counties defined in § 115.10. |
| MISCTKS | N/A | 40 CFR Part 60, Subpart Kb | Each miscellaneous tank has a design capacity less than 75 cubic meters. |
| PROP-1 | N/A | 30 TAC Chapter 115, Loading and Unloading of VOC | The vessel is not located in the counties defined in § 115.10. |
| PROP-1 | N/A | 40 CFR Part 60, Subpart Kb | The pressure vessel is designed to operate in excess of 204.9 kPa and without emissions to the atmosphere. |

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 | | |
| STEP-2 | N/A | 30 TAC Chapter 115, Storage of VOCs | The vessel is not located in the counties defined in § 115.10. |
| STEP-2 | N/A | 40 CFR Part 60, Subpart Kb | The unit is not a volatile organic storage vessel. |
| TK-4 | N/A | 30 TAC Chapter 115, Storage of VOCs | The vessel is not located in the counties defined in § 115.10. |
| TK-4 | N/A | 40 CFR Part 60, Subpart Kb | The storage tank has a design capacity less than 75 cubic meters. |
| TK-5 | N/A | 30 TAC Chapter 115, Storage of VOCs | The vessel is not located in the counties defined in § 115.10. |
| TK-5 | N/A | 40 CFR Part 60, Subpart Kb | The storage tank has a design capacity less than 75 cubic meters. |
| TK-6 | N/A | 30 TAC Chapter 115, Storage of VOCs | The vessel is not located in the counties defined in § 115.10. |
| TK-6 | N/A | 40 CFR Part 60, Subpart Kb | The storage tank has a design capacity less than 75 cubic meters. |
| TK-7 | N/A | 30 TAC Chapter 115, Storage of VOCs | The vessel is not located in the counties defined in § 115.10. |
| TK-7 | N/A | 40 CFR Part 60, Subpart Kb | The vessel has a design capacity less than 1,589.874 cubic meters, condensate stored prior to custody transfer. |

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 | | |
| H-1 | N/A | 30 TAC Chapter 117, Subchapter B | The heater is located in an attainment area. |
| H-2 | N/A | 30 TAC Chapter 117, Subchapter B | The heater is located in an attainment area. |
| H-3 | N/A | 30 TAC Chapter 117, Subchapter B | The facility is located in an attainment area. |
| C-1.2 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-2 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-3 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-4.2 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-5 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-6 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |
| C-7 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |

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 | | |
| C-8 | N/A | 30 TAC Chapter 117, Subchapter B | The engine is located in an attainment area. |

New Source Review Authorization References

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New Source Review Authorization References by Emission Unit..... 35

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.

| Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area. | |
|---|------------------------------|
| Authorization No.: 77131 | Issuance Date: 01/27/2014 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.352 | Version No./Date: 09/04/2000 |
| Number: 106.454 | Version No./Date: 11/01/2001 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units 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 |
|---------------------------|--|---------------------------------|
| C-1.2 | WAUKESHA L7042GSI ENGINE | 77131 |
| C-2 | WHITE SUPERIOR 8G-825 ENGINE | 77131 |
| C-3 | CATERPILLAR G3516LE ENGINE | 77131 |
| C-4.2 | CATERPILLAR G3516LE ENGINE | 77131 |
| C-5 | CATERPILLAR G3516LE ENGINE | 77131 |
| C-6 | CATERPILLAR G3516LE ENGINE | 77131 |
| C-7 | CATERPILLAR G3516LE ENGINE | 77131 |
| C-8 | CATERPILLAR G3408LE ENGINE | 77131 |
| DEA | AMINE STILL/FLASH VENT | 77131 |
| DEGREASER1 | DEGREASER CLEANING STATION | 106.454/11/01/2001 |
| FL-1 | TEG STILL/FLASH, AMINE COMBUSTION FLARE, PILOT | 77131 |
| FUG-KKK | PLANT FUGITIVE; MONITORED | 77131 |
| H-1 | REGEN HEATER | 77131 |
| H-2 | AMINE HEATER | 77131 |
| H-3 | TEG REBOILER | 77131 |
| LOAD-01 | CONDENSATE/PRODUCED WATER LOADING | 77131 |
| LOAD-02 | METHANOL LOADING | 77131 |
| LOAD-03 | MISCELLANEOUS LOADING | 77131 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units 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 |
|---------------------------|---|---------------------------------|
| MISCTKS | MISCELLANEOUS TANKS (TEG, EG, LUBE OIL, AMINE) | 77131 |
| PIG | PIG LAUNCHING AND RECEIVING ACTIVITIES | 106.352/09/04/2000 |
| PROP-1 | PROPANE REFRIGERATE STORAGE TANK | 77131 |
| STEP-2 | CONDENSATE/PRODUCED WATER ATMOSPHERIC GUNBARREL | 77131 |
| TK-4 | PRODUCED WATER STORAGE TANK | 77131 |
| TK-5 | PRODUCED WATER STORAGE TANK | 77131 |
| TK-6 | PRODUCED WATER STORAGE TANK | 77131 |
| TK-7 | CONDENSATE STORAGE TANK | 77131 |
| V-1 | TEG STILL/FLASH VENT | 77131 |

Appendix A

Acronym List38

Acronym List

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

| | | |
|------------------|-------|---|
| ACFM | ..... | actual cubic feet per minute |
| AMOC | ..... | alternate means of control |
| ARP | ..... | Acid Rain Program |
| ASTM | ..... | American Society of Testing and Materials |
| B/PA | ..... | Beaumont/Port Arthur (nonattainment area) |
| CAM | ..... | Compliance Assurance Monitoring |
| CD | ..... | control device |
| COMS | ..... | continuous opacity monitoring system |
| CVS | ..... | closed-vent system |
| D/FW | ..... | Dallas/Fort Worth (nonattainment area) |
| DR | ..... | Designated Representative |
| ELP | ..... | El Paso (nonattainment area) |
| EP | ..... | emission point |
| EPA | ..... | U.S. Environmental Protection Agency |
| EU | ..... | emission unit |
| FCAA Amendments | ..... | Federal Clean Air Act Amendments |
| FOP | ..... | federal operating permit |
| GF | ..... | grandfathered |
| gr/100 scf | ..... | grains per 100 standard cubic feet |
| HAP | ..... | hazardous air pollutant |
| H/G/B | ..... | Houston/Galveston/Brazoria (nonattainment area) |
| H ₂ S | ..... | hydrogen sulfide |
| ID No. | ..... | identification number |
| lb/hr | ..... | pound(s) per hour |
| MMBtu/hr | ..... | Million British thermal units per hour |
| MRRT | ..... | monitoring, recordkeeping, reporting, and testing |
| NA | ..... | nonattainment |
| N/A | ..... | not applicable |
| NADB | ..... | National Allowance Data Base |
| NO _x | ..... | nitrogen oxides |
| NSPS | ..... | New Source Performance Standard (40 CFR Part 60) |
| NSR | ..... | New Source Review |
| ORIS | ..... | Office of Regulatory Information Systems |
| Pb | ..... | lead |
| PBR | ..... | Permit By Rule |
| PM | ..... | particulate matter |
| ppmv | ..... | parts per million by volume |
| PSD | ..... | prevention of significant deterioration |
| RO | ..... | Responsible Official |
| SO ₂ | ..... | sulfur dioxide |
| TCEQ | ..... | Texas Commission on Environmental Quality |
| TSP | ..... | total suspended particulate |
| TVP | ..... | true vapor pressure |
| U.S.C. | ..... | United States Code |
| VOC | ..... | volatile organic compound |