

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Pioneer Natural Resources USA, Inc.

AUTHORIZING THE OPERATION OF

Fain Plants I & II
Natural Gas Liquids

LOCATED AT

Potter County, Texas

Latitude 35° 32' 15" Longitude 101° 53' 48"

Regulated Entity Number: RN100226943

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: O3003 Issuance Date: August 29, 2013

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 HH and ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.390 and §113.1090 which incorporate the 40 CFR Part 63 Subparts 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. 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_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:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the

observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_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:

- (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity

requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
 - E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
 - F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
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 following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
6. For the National Emissions Standards for Asbestos specified in 40 CFR Part 61, Subpart M, the permit holder shall comply with the following requirements:
- A. For insulating materials other than spray-applied: Title 40 CFR § 61.148 (relating to Standards for Insulating Materials), for installation and reinstallation of asbestos-containing insulation).
7. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
8. For oil and natural gas production facilities as specified in 40 CFR Part 63, Subpart HH, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.390 incorporated by reference):
- A. Title 40 CFR § 63.760(a)(1)(i) - (iii) (relating to Applicability and Designation of Affected Source)
 - B. Title 40 CFR § 63.775(d)(9) (relating to Reporting Requirements)

9. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

10. 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

11. 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

12. 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.
13. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.
 - A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
 - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

14. 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.
15. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables

- B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
- (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

Risk Management Plan

16. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Temporary Fuel Shortages (30 TAC § 112.15)

17. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
- A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
 - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (c) (relating to Temporary Fuel Shortage Plan Operating Requirements)
 - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
 - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

18. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 16

Applicable Requirements Summary 19

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
EPN: WB-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-0002	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EPN: FL-1	FLARES	N/A	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EPN: FL-1	FLARES	N/A	60A-0001	40 CFR Part 60, Subpart A	No changing attributes.
EPN: FL-1	FLARES	N/A	63A-0001	40 CFR Part 63, Subpart A	No changing attributes.
GRP-KKKPR	FUGITIVE EMISSION UNITS	FIN: FUG-MOD, FIN: FUG-RTIE, TB2FUG	60KKK-0004	40 CFR Part 60, Subpart KKK	No changing attributes.
GRP-KKKPR	FUGITIVE EMISSION UNITS	FIN: FUG-MOD, FIN: FUG-RTIE, TB2FUG	63HH-0004	40 CFR Part 63, Subpart HH	No changing attributes.
GRP-KKKWG	FUGITIVE EMISSION UNITS	FIN: FUG-C-14, FIN: FUG-C-15, FIN: FUG-C-7, FIN: FUG-C-8	60KKK-0003	40 CFR Part 60, Subpart KKK	No changing attributes.
GRP-KKKWG	FUGITIVE EMISSION UNITS	FIN: FUG-C-14, FIN: FUG-C-15, FIN: FUG-C-7, FIN: FUG-C-8	63HH-0003	40 CFR Part 63, Subpart HH	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PRO-AMINE1	GAS SWEETENING/SULFU R RECOVERY UNITS	FIN: DEA-1	60LLL-0001	40 CFR Part 60, Subpart LLL	No changing attributes.
PRO-AMINE2	GAS SWEETENING/SULFU R RECOVERY UNITS	FIN: DEA-2	60LLL-0001	40 CFR Part 60, Subpart LLL	No changing attributes.
GLY-2-VOC	GLYCOL DEHYDRATION	N/A	63HH-0005	40 CFR Part 63, Subpart HH	No changing attributes.
AC-1	SRIC ENGINES	N/A	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
ENG-1	SRIC ENGINES	N/A	63ZZZZ-6590	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
ENG-2	SRIC ENGINES	N/A	63ZZZZ-6590	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FF-2	SRIC ENGINES	N/A	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FF-3	SRIC ENGINES	N/A	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
JW-1	SRIC ENGINES	N/A	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
JW-2	SRIC ENGINES	N/A	63ZZZZ-0003	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
JW-3	SRIC ENGINES	N/A	63ZZZZ-0003	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
FIN: C-1	STATIONARY TURBINES	N/A	60GG-0001	40 CFR Part 60, Subpart GG	No changing attributes.
FIN: C-3	STATIONARY TURBINES	N/A	60GG-0002	40 CFR Part 60, Subpart GG	No changing attributes.
FIN: C-4	STATIONARY TURBINES	N/A	60GG-0001	40 CFR Part 60, Subpart GG	No changing attributes.
FIN: C-5	STATIONARY TURBINES	N/A	60GG-0002	40 CFR Part 60, Subpart GG	No changing attributes.
FIN: C-6	STATIONARY TURBINES	N/A	60GG-0002	40 CFR Part 60, Subpart GG	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)
EPN: WB-1	EP	R1111-0002	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
EPN: FL-1	EU	R1111-0001	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
EPN: FL-1	CD	60A-0001	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
EPN: FL-1	CD	63A-0001	OPACITY	40 CFR Part 63, Subpart A	§ 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i)	Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used.	§ 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-KKKPR	EU	6oKKK-0004	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) § 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
GRP-KKKPR	EU	6oKKK-0004	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
GRP-KKKPR	EU	6oKKK-0004	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(d) § 60.482-10(e) § 60.482-10(m) § 60.633(g)	Comply with the requirements for flares as stated in §60.482-10 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.485(a) [G]§ 60.485(c) § 60.485(d) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) [G]§ 60.485(g) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-KKKPR	EU	6oKKK-0004	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(m)	Comply with the requirements for control devices/closed vent systems as stated in §60.482-10 and 60.482-1(a), (b) and (d), except as provided in §60.633.	[G]§ 60.482-10(f) § 60.482-10(i) § 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]§ 60.482-10(j) [G]§ 60.482-10(k) [G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 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
GRP-KKKPR	EU	6oKKK-0004	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
GRP-KKKPR	EU	6oKKK-0004	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 gas/vapor 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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-KKKPR	EU	6oKKK-0004	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
GRP-KKKPR	EU	6oKKK-0004	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
GRP-KKKPR	EU	6oKKK-0004	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-KKKPR	EU	63HH-0004	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart HH
GRP-KKKWG	EU	60KKK-0003	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
GRP-KKKWG	EU	60KKK-0003	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

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-KKKWG	EU	60KKK-0003	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 gas/vapor 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
GRP-KKKWG	EU	60KKK-0003	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
GRP-KKKWG	EU	60KKK-0003	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
GRP-KKKWG	EU	63HH-0003	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart HH

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PRO-AMINE1	PRO	6oLLL-0001	SO2	40 CFR Part 60, Subpart LLL	§ 60.640(b)	Facilities that have a design capacity less than 2 LT/D of H2S 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
PRO-AMINE2	PRO	6oLLL-0001	SO2	40 CFR Part 60, Subpart LLL	§ 60.640(b)	Facilities that have a design capacity less than 2 LT/D of H2S 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
GLY-2-VOC	EU	63HH-0005	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.765(b)(1)(ii) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart HH	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart HH
AC-1	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.6 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary SI RICE and black start stationary SI RICE with a site rating less than or equal to 500 HP, located at a major source, you must comply with the requirements as specified in Table 2c.6.a-c.	§ 63.6625(f) § 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
ENG-1	EU	63ZZZZ-6590	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602 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
ENG-2	EU	63ZZZZ-6590	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602 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
FF-2	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.7 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start stationary SI RICE with a site rating less than 100 HP, located at a major source, that are not 2SLB stationary RICE, you must comply with the requirements as specified in Table 2c.7.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FF-3	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.7 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start stationary SI RICE with a site rating less than 100 HP, located at a major source, that are not 2SLB stationary RICE, you must comply with the requirements as specified in Table 2c.7.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
JW-1	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.7 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start stationary SI RICE with a site rating less than 100 HP, located at a major source, that are not 2SLB stationary RICE, you must comply with the requirements as specified in Table 2c.7.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
JW-2	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.7 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start stationary SI RICE with a site rating less than 100 HP, located at a major source, that are not 2SLB stationary RICE, you must comply with the requirements as specified in Table 2c.7.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
JW-3	EU	63ZZZZ-0003	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.7 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start stationary SI RICE with a site rating less than 100 HP, located at a major source, that are not 2SLB stationary RICE, you must comply with the requirements as specified in Table 2c.7.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
FIN: C-1	EU	60GG-0001	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
FIN: C-3	EU	60GG-0002	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
FIN: C-3	EU	60GG-0002	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(2) § 60.332(a)(3) § 60.332(k)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	§ 60.334(c)	§ 60.334(c)	None
FIN: C-4	EU	60GG-0001	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
FIN: C-5	EU	60GG-0002	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FIN: C-5	EU	60GG-0002	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(2) § 60.332(a)(3) § 60.332(k)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	§ 60.334(c)	§ 60.334(c)	None
FIN: C-6	EU	60GG-0002	SO ₂	40 CFR Part 60, Subpart GG	§ 60.333(b)	No stationary gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight.	§ 60.334(h) [G]§ 60.334(h)(3)	None	None
FIN: C-6	EU	60GG-0002	NO _x	40 CFR Part 60, Subpart GG	§ 60.332(a)(2) § 60.332(a)(3) § 60.332(k)	No owner or operator shall discharge into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of the amount as determined from the specified equation.	§ 60.334(c)	§ 60.334(c)	None

Additional Monitoring Requirements

Periodic Monitoring Summary.....31

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: EPN: WB-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.: R1111-0002
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: Visible Emissions	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions.</p> <p>If the result of the Test Method 9 is an opacity above the corresponding opacity limit, the permit holder shall report a deviation.</p>	

Permit Shield

Permit Shield 33

Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-NONVOC	FIN: FUG-C-12, FIN: FUG-C-6	40 CFR Part 60, Subpart KKK	These fugitive components are not an “affected facility” as defined by 60.630(a)
GRP-NONVOC	FIN: FUG-C-12, FIN: FUG-C-6	40 CFR Part 63, Subpart HH	Compressors in this group are not operating in volatile hazardous air pollutant service.
GRP-OLD	FIN: FUG-REM	40 CFR Part 60, Subpart KKK	These fugitive components were installed before, and have not been reconstructed since, 1/20/1984
GRP-OLD	FIN: FUG-REM	40 CFR Part 63, Subpart HH	Ancillary equipment in this group is not operating in volatile hazardous air pollutant service.
CT-1	N/A	40 CFR Part 63, Subpart Q	No chromium-based water treatment chemicals have been used in the cooling tower since 9/8/1994.
C-10	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
C-11	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”

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-12	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
C-14	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
C-15	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
C-8	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
C-9	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 4 stroke lean burn engine until it is “reconstructed”
GMV-1	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-2	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”

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		
GMV-3	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-4	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-5	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-6	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-7	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
GMV-8	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
HRA-1	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”

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		
HRA-2	N/A	40 CFR Part 63, Subpart ZZZZ	This regulation has no requirements for this existing 2 stroke lean burn engine until it is “reconstructed”
FIN: C-1	N/A	40 CFR Part 63, Subpart YYYY	This regulation has no requirements for this existing gas-fired turbine until it is “reconstructed”
FIN: C-3	N/A	40 CFR Part 63, Subpart YYYY	This regulation has no requirements for this existing gas-fired turbine until it is “reconstructed”
FIN: C-4	N/A	40 CFR Part 63, Subpart YYYY	This regulation has no requirements for this existing gas-fired turbine until it is “reconstructed”
FIN: C-5	N/A	40 CFR Part 63, Subpart YYYY	This regulation has no requirements for this existing gas-fired turbine until it is “reconstructed”
FIN: C-6	N/A	40 CFR Part 63, Subpart YYYY	This regulation has no requirements for this existing gas-fired turbine until it is “reconstructed”

New Source Review Authorization References

New Source Review Authorization References 38

New Source Review Authorization References by Emission Unit.....40

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.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX798M1	Issuance Date: 02/20/2013
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.: 20711	Issuance Date: 02/20/2013
Authorization No.: 48853	Issuance Date: 07/19/2012
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.352	Version No./Date: 03/14/1997
Number: 106.352	Version No./Date: 09/01/1999
Number: 106.352	Version No./Date: 09/04/2000
Number: 106.352	Version No./Date: 11/22/2012
Number: 106.492	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 03/14/1997
Number: 106.512	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001
Number: 6	Version No./Date: 05/05/1976
Number: 6	Version No./Date: 05/12/1981
Number: 6	Version No./Date: 03/15/1985
Number: 6	Version No./Date: 11/05/1986
Number: 6	Version No./Date: 10/04/1995
Number: 6	Version No./Date: 07/16/1997
Number: 6	Version No./Date: 11/26/1997
Number: 7	Version No./Date: 05/08/1972
Number: 8	Version No./Date: 09/23/1982
Number: 60	Version No./Date: 05/08/1972

New Source Review Authorization References

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

Number: 64	Version No./Date: 05/08/1972
Number: 73	Version No./Date: 05/08/1972

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
AC-1	WAUKESHA 135GZ ENGINE	007/05/08/1972
C-10	WHITE SUPERIOR 6GTLB ENGINE	20711, PSDTX798M1
C-11	WHITE SUPERIOR 6GTLB ENGINE	20711, PSDTX798M1
C-12	WHITE SUPERIOR 2406G ENGINE	106.512/03/14/1997
C-14	WHITE SUPERIOR 2408G ENGINE	106.512/03/14/1997
C-15	WHITE SUPERIOR 2408G ENGINE	106.512/03/14/1997
C-8	WHITE SUPERIOR 16SGTB ENGINE	006/10/04/1995
C-9	WHITE SUPERIOR 8GTLB ENGINE	20711, PSDTX798M1
CT-1	COOLING TOWER	008/09/23/1982
ENG-1	CHRYSLER H225 WATER PUMP	106.511/09/04/2000
ENG-2	WAUKESHA 195 GKU AIR COMPRESSOR #2	106.511/09/04/2000
EPN: FL-1	PROCESS FLARE	20711, PSDTX798M1
EPN: WB-1	HEAT RECOVERY OIL HEATING SYSTEM STACK	106.352/09/04/2000
FF-2	WAUKESHA VRG310 ENGINE	006/05/05/1976
FF-3	WAUKESHA 195GKU ENGINE	006/03/15/1985
FIN: C-1	SOLAR CENTAUR TURBINE NO. 1	106.512/06/13/2001
FIN: C-3	SOLAR CENTAUR TURBINE NO. 2	106.512/06/13/2001
FIN: C-4	SOLAR CENTAUR TURBINE NO. 3	006/05/12/1981

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
FIN: C-5	SOLAR SATURN TURBINE NO. 1	106.512/09/04/2000
FIN: C-6	SOLAR CENTAUR TURBINE NO. 4	106.512/09/04/2000
FIN: DEA-1	AMINE REGENERATOR/UNIT I	20711, PSDTX798M1
FIN: DEA-2	AMINE REGENERATOR/UNIT II	20711, PSDTX798M1
FIN: FUG-C-12	NON-VOC COMPRESSOR C-12 FUGITIVES	6/07/16/1997
FIN: FUG-C-14	WET-GAS COMPRESSOR C-14 FUGITIVES	6/11/26/1997
FIN: FUG-C-15	WET-GAS COMPRESSOR C-15 FUGITIVES	6/11/26/1997
FIN: FUG-C-6	NON-VOC COMPRESSOR C-6 FUGITIVES	006/11/05/1986
FIN: FUG-C-7	WET-GAS COMPRESSOR C-7 FUGITIVES	20711, PSDTX798M1
FIN: FUG-C-8	WET-GAS COMPRESSOR FUGITIVES	006/10/04/1995
FIN: FUG-MOD	FAIN PLANT II MODIFICATION FUGITIVES	20711, PSDTX798M1
FIN: FUG-REM	OLDER FAIN PLANT I FUGITIVES	106.352/09/04/2000
FIN: FUG-RTIE	REFRIGERATION SYSTEMS TIE FUGITIVES	106.352/03/14/1997
GLY-2-VOC	GLYCOL GAS-DEHYDRATION UNIT STILL VENT	106.352/09/04/2000
GMV-1	COOPER BESSEMER GMV-6STF ENGINE	48853
GMV-2	COOPER BESSEMER GMV-6STF ENGINE	48853
GMV-3	COOPER BESSEMER GMV-6STF ENGINE	48853
GMV-4	COOPER BESSEMER GMV-6STF ENGINE	48853

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
GMV-5	COOPER BESSEMER GMV-6STF ENGINE	48853
GMV-6	COOPER BESSEMER GMV-6STF ENGINE	48853
GMV-7	COOPER BESSEMER GMV-8F ENGINE	48853
GMV-8	COOPER BESSEMER GMV-8F ENGINE	48853
HRA-1	CLARK HRA ENGINE	006/05/05/1976
HRA-2	CLARK HRA ENGINE	006/05/05/1976
JW-1	WAUKESHA VRG232 ENGINE	006/03/15/1985
JW-2	WAUKESHA VRG232 ENGINE	006/03/15/1985
JW-3	WAUKESHA VRG232 ENGINE	006/03/15/1985
TB2FUG	TANK BATTERY FUGITIVE EMISSIONS	106.352/09/04/2000

Appendix A

Acronym List 44

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

Appendix B

Major NSR Summary Table..... 46

Major NSR Summary Table

Permit Number: 20711 and PSD-TX-789M-1			Issuance Date: 2/20/2013				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY(4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
FL-1	Flare	SO ₂	84.4	184.9	5, 7	2, 5, 7, 11	
		NO _x	0.64	2.72			
		CO	5.45	23.3			
		VOC	1.30	3.76			
		H ₂ S	0.90	1.97			
C-9	White Superior	NO _x	4.9	21.2	1, 8, 9, 10	1, 2, 8, 9, 10, 11	8, 12, 13
	8-GTLB 1100 HP	CO	7.3	31.9			
	Compressor Engine	VOC	0.73	3.19			
	(clean burn)	PM ₁₀	0.08	0.34			
		PM _{2.5}	0.08	0.34			
C-10	White Superior	NO _x	3.6	15.9	1, 8, 9, 10	1, 2, 8, 9, 10, 11	8, 12, 13
	6-GTLB 825 HP	CO	6.4	27.9			
	Compressor Engine	VOC	0.6	2.4			
	(clean burn)	PM ₁₀	0.06	0.26			
		PM _{2.5}	0.06	0.26			
C-11	White Superior	NO _x	3.6	15.9	1, 8, 9, 10	1, 2, 8, 9, 10, 11	8, 12, 13
	6-GTLB 825-HP	CO	6.4	27.9			
	Compressor Engine	VOC	0.6	2.4			
	(clean burn)	PM ₁₀	0.06	0.26			
		PM _{2.5}	0.06	0.26			
		SO ₂	0.004	0.02			

PH-1	Regeneration Gas	NOx	0.43	1.88		2	
	Heater	CO	0.36	1.58			
		VOC	0.024	0.10			
		PM10	0.033	0.14			
		PM2.5	0.033	0.14			
		SO2	0.003	0.011			
PH-2	Amine Reconcentrator	NOx	0.39	1.72		2	
		CO	0.33	1.44			
		VOC	0.022	0.10			
		PM10	0.03	0.13			
		PM2.5	0.03	0.13			
		SO2	0.002	0.01			
FUG-MOD	Plant Modification	VOC	1.83	8.04	3, 14	2, 14	
	Fugitive Emissions (5)	H2S	0.0002	0.0007			

Footnotes:

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

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

PM₁₀- total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

PM_{2.5}- particulate matter equal to or less than 2.5 microns in diameter - hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) are based on a rolling 365-day average. Also NO_x, CO, and SO₂ are PSD regulated pollutants.

(5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
Pioneer Natural Resources USA, Inc.
Authorizing the Continued Operation of
Fain Gas Plant

Located at **Masterson, Potter County, Texas**

Latitude 35° 32' 15" Longitude 101° 53' 48"

Permit: 20711 and PSDTX798M1

Issuance Date : February 20, 2013

Renewal Date: February 20, 2023


For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1)the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Numbers 20711 and PSDTX798M1

Emission Limits, Fuel Specifications, and Work Practices

1. Opacity of emissions from each of the engines authorized by this permit must not exceed 5 percent averaged over a six-minute period, except for those periods described in Title 30 Texas Administrative Code § 111.111(a)(1)(E) [30 TAC § 111.111(a)(1)(E)]. The opacity shall be determined by the U.S. Environmental Protection Agency (EPA) Test Method 9. **(1/13)**
2. This permit covers only those sources of emissions listed on the maximum allowable emission rates table (MAERT) and those sources are limited to the emission limits and other conditions specified in the attached table. The annual rates are based on any consecutive 365 day period. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the Texas Commission on Environmental Quality (TCEQ) or any air pollution control agency with jurisdiction. In addition, the holder of this permit shall physically identify and permanently mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows: **(1/13)**
 - A. The facility identification numbers as submitted to the Emissions Assessment Section of the TCEQ.
 - B. The emission point numbers (EPNs) as listed on MAERT.
3. These facilities shall comply with all requirements of the EPA regulations in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60) on Standards of Performance for New Stationary Sources promulgated for: **(1/13)**
 - A. General Conditions, Subpart A.
 - B. Equipment Leaks of Volatile Organic Compounds (VOC) from Onshore Natural Gas Processing Plants, Subpart KKK.
 - C. Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions, Subpart LLL.
4. Fuel for all combustion devices including (but not limited to) reciprocating engines, amine contactors, and flare pilot fuel for this permitted facility is limited to pipeline-quality, sweet natural gas containing no more than 0.25 grain hydrogen sulfide (H₂S) and 5 grains total sulfur per 100 dscf. The use of any other fuel will require a modification to this permit. **(1/13)**
5. The flares shall be designed and operated in accordance with 40 CFR § 60.18 including specifications of minimum heating value of the waste gas, maximum tip velocity, and pilot flame monitoring. If necessary to insure adequate combustion, sufficient fuel gas shall be added to make the gases combustible. The pilot flame presence shall be monitored using a thermocouple or infrared monitor. An infrared monitor is considered equivalent to a thermocouple for flame monitoring purposes. When the pilot flame becomes undetectable by the monitoring device, an automatic alarm should initiate and

alert Pioneer personnel of the potential deviation condition. Pioneer shall maintain records for each alarm event showing, at least, the alarm validity (e.g. whether it was a false alarm or valid alarm), and the alarm event duration before the flare pilot was successfully relit. Each monitoring device shall be accurate to within manufacturer's recommendations and calibrated at a frequency in accordance with manufacturer's specifications, or other written procedures that provide adequate assurance that the monitoring device is accurately calibrated.

6. Emissions from the following engines identified below shall not exceed: **(1/13)**
- A. The 1,100-HP Superior 8-GTLB, EPN C-9, at 100 percent speed and 100 percent load (torque), 10 percent oxygen (O₂):
- (1) 2.0 g/Hp-hour (hr) or 308 parts per million by volume, dry (ppmvd) of nitrogen oxides (NO_x)
 - (2) 3.0 g/Hp-hr or 658 ppmvd of carbon monoxide (CO)
 - (3) 0.3 g/Hp-hr of VOC
- B. Each 825-HP Superior 6-GTLB, EPNs C-10 and C-11, at 100 percent speed and 100 percent load (torque), 10 percent O₂:
- (1) 2.0 g/Hp-hr or 294 ppmvd of NO_x
 - (2) 3.5 g/Hp-hr or 846 ppmvd of CO
 - (3) 0.3 g/Hp-hr of VOC
- All measured emission concentrations shall be reported on a dry basis and shall be corrected to the engine exhaust O₂ content noted above.
7. The holder of this permit shall use the stain tube testing method to measure and record the H₂S concentration of the field inlet gas.

Stain Tube Sampling Procedures

- A. Sampling shall be conducted at the inlet gas header of the facility. The monitoring will be conducted by the use of stain tubes capable of measuring H₂S content in the range expected to be present in the inlet gas. Each batch of tubes will be kept in a temperature controlled environment immediately upon receipt and each individual tube will be allowed to reach room temperature at least eight hours before use. The stain tube manufacturer's recommended directions shall be followed during measurement of the H₂S concentration and handling of the stain tubes. These directions shall be maintained at the plant site for review by plant and TCEQ personnel. Testing shall occur twice per day, with a minimum of

eight hours between tests. Measurement of H₂S concentration is not required on weekends and plant holidays if personnel are not normally scheduled on those days.

Stain Tube Certification Procedures

- B. All testing results shall be maintained by the permit holder for a period of two years and shall be made available to the TCEQ Executive Director or designated representative upon request. The results from the stain tubes shall be used to determine compliance with the MAERT for EPN FL-1.

Initial Determination of Compliance

- 8. Initial compliance testing accomplished in January 1993. This condition retained in the event any future testing is required.
 - A. The holder of this permit shall perform stack testing to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the Superior 8-GTLB Engine identified as EPN C-9, and one of the two Superior 6-GTLB Engines identified as EPNs C-10 and C-11. If the Superior 6-GTLB Engine which is tested exceeds any applicable emission limit of this permit, then the other Superior 6-GTLB shall undergo identical testing. The holder of this permit is responsible for providing testing facilities and conducting the testing operations at his expense. **(1/13)**
 - B. Gaseous sampling ports for the engines shall consist of one (for EPNs C-9 through C-11) two inch diameter or larger schedule 40 couplings, or one (for EPNs C-9 through C-11) three inch long pipe nipples installed in the exhaust system according to the EPA Test Method 1 at a location where the full flow to the engine exhaust sweeps by the sampling point and where sufficient turbulence (no stratification) may be expected to insure a representative sample.

Sampling platforms shall be incorporated into the design of the engine stacks according to the specifications set forth in Chapter 2 of TCEQ Sampling Procedures Manual. Alternate sampling facility designs may be submitted for approval by the TCEQ Amarillo Regional Office Director.
 - C. The TCEQ Amarillo Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.

- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.
- (6) Procedure to be used to determine engine HP loads during and after sampling period. **(1/13)**
- (7) Identification of speed and torque test points for engines. The selected points must be representative of the range of emissions in the design operating range of the engines. **(1/13)**

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports. A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or the EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in D of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division. Test waivers and alternate/equivalent procedure proposals for New Source Performance Standards (NSPS) testing which must have the EPA approval shall be submitted to the TCEQ Air Permits Division.

D. Air contaminants to be tested for include (but are not limited to): **(1/13)**

- (1) Reciprocating engines: NO_x, CO, VOC, and O₂.

In addition, the nitric oxide (NO)-to-NO_x ratio shall be determined for each engine tested at full load and full speed. Also, NO_x, and CO reduction efficiencies shall be calculated for those engines equipped with the appropriate catalysts.

E. Engine emissions shall be determined by the EPA Test Methods 1, 2, 3, 4, 7E, and 10 or any other methods approved by the TCEQ Regional Office Director prior to sampling. The opacity shall be determined by the EPA Test Method 9 and the number of observations required to demonstrate compliance with the limit specified in Special Condition No. 1 shall be determined by 40 CFR § 60.11(b). Sampling of the engines shall be conducted at the following operating points: the maximum speed and load at which the engine will be operated; the maximum speed and minimum load at which the engine will be operated; the minimum speed and maximum load at which the engine will be operated; and the minimum speed and load at which the engine will be operated. The maximum load shall be the maximum achievable engine load for the ambient conditions during the test.

At each test load, the following operating parameters shall be recorded to identify the range over which the allowable emission limits are not exceeded: air-fuel ratio (AFR) as measured by exhaust O₂ content, air manifold temperature and pressure, fuel header pressure, engine speed, and spark ignition timing. All engine adjustments shall be clearly described in the sampling report and must be demonstrated to be representative of normal operating conditions.

- F. Sampling shall occur within 60 days after initial start-up of the facilities and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office.
- G. For test purposes, only the holder of this permit may operate each engine outside its proposed operating range during the initial performance test. This shall be solely for the purpose of determining the compliance operating range of each engine. Exceedances of the emission limitations of Special Condition No. 6 or the MAERT which may occur during this testing shall not be a violation of this permit. The emission limitations of Special Condition No. 6 and the MAERT are applicable at all other times.
- H. Copies of the final sampling report shall be forwarded to the TCEQ within 30 days after sampling is completed. Sampling reports shall comply with the provisions of Chapter 14 of TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

- One copy to the TCEQ Amarillo Regional Office.
- One copy to the TCEQ Austin Office of Air, Air Permits Division.
- One copy to the EPA Dallas Regional Office.

Continuous Determination of Compliance

- 9. For Engines C-9 through C-11, speed and load shall be maintained in the range determined by the sampling required in Special Condition No. 8 to result in emissions compliance. Engines not sampled pursuant to Special Condition No. 8 shall be operated in the same range and be limited to the same operational limits as the identical units that are sampled. The following engine parameters shall be sampled once per 12-hour shift and shall not exceed the limits specified below:

Engine Parameter	High Limit	Low Limit
Superior 8-GTLB, EPN C-9:		
Air Manifold Temperature	145 deg F	100 deg F
Air Manifold Pressure	29 psia	15.7 psia
Fuel Header Pressure	39.4 psia	20.2 psia
Engine Speed	900 rpm	600 rpm
Air/Fuel Ratio	0.97 psia/psia	0.53 psia/psia
Superior 6-GTLBs, EPNs C-10 And C-11:		
Air Manifold Temperature	145 deg F	100 deg F
Air Manifold Pressure	29 psia	15.8 psia
Fuel Header Pressure	41.3 psia	20.4 psia
Engine Speed	900 rpm	600 rpm
Air/Fuel Ratio	0.93 psia/psia	0.53 psia/psia

Written records of the results of all engine parameter monitoring required in Special Condition No. 9 shall be made and maintained at the plant site by the holder of this permit on a two-year rolling retention basis and shall be made available upon request to designated representatives of the TCEQ, the EPA, or any local air pollution control program having jurisdiction.

10. In order to demonstrate that the emission limits specified in Special Condition No. 6 and the MAERT are continuously met, the holder of this permit shall conduct a quarterly evaluation of engine performance at the maximum load and speed achievable based on ambient conditions for each engine authorized by this permit by measuring the NO_x, CO, and O₂ content of the exhaust. Three 10-minute sets of measurements should be averaged to determine the NO_x and CO concentrations.
 - A. The use of portable analyzers specifically designed for measuring CO and NO or NO_x concentrations in ppmvd shall be used for this evaluation. A hot air probe or equivalent may be used with the analyzer to prevent damage to the probes because of high stack temperatures. Prior to and following the measurements, the portable analyzer shall be checked for accuracy using an audit gas that conforms to the specifications in 40 CFR Part 60 Appendix F, 5.1.2(3) to show that the analyzer meets the manufacturer's accuracy tolerances. Any other method approved by the TCEQ Regional Director.

- B. Testing shall also be performed at such times that the AFR controller indicates being out of calibration or otherwise malfunctioning. Emission testing shall be performed as soon as practicable, but no later than seven days following maintenance performed on: (1) AFR controller; (2) sensor; (3) catalyst (including catalyst cleaning or replacement); or (4) engine. For purposes of this condition, maintenance is considered any work which may affect catalyst performance or exhaust emissions.
- C. The NO_x emission rate shall be determined from the NO_x values determined in Special Condition No. 10 and the NO-to-NO_x ratio determined in Special Condition No. 8D.
- D. The quarterly testing required in Special Condition No. 10 shall be used for demonstrating continuous compliance with Special Condition No. 6 and the MAERT.
- E. Emissions shall be measured and recorded in the as found operating condition, except no compliance determination shall be established during start-up or shutdown. Emission rates shall be reported in either ppmvd and corrected to the O₂ content as specified in Special Condition No. 6 or in brake-specific units of g/hp-hr, and also, converted into in units of lb/hr.

Recordkeeping

- 11. The holder of this permit shall make and maintain records of the following:
 - A. Daily volume and H₂S concentration of the inlet gas. This data shall be used to calculate SO₂ emissions from the flare. Assumptions shall include: (1) all H₂S in the inlet gas is emitted through the flare; and (2) complete conversion of H₂S to SO₂ in the flare. Calculations shall be performed at least weekly to demonstrate compliance with a rolling 365 day average of the daily SO₂ emissions from the flare.
 - B. The holder of this permit shall maintain a raw data file of all measurements including stain tube, monitoring device and performance testing measurements, all continuous monitoring device calibration checks, adjustments, and maintenance performed on these systems or devices in a permanent form suitable for inspection.
 - C. Results of NO_x, CO, and O₂ engine testing required by Special Condition No. 10.
 - D. The results of all stack tests conducted pursuant to Special Condition No. 8.

The records required shall be maintained at the plant site on a rolling five-year retention basis following the date of such measurements, maintenance, reports, or records and shall be made

available upon request to the TCEQ, the EPA, or any local air pollution agency having jurisdiction.

Reporting

12. The holder of this permit shall submit annual reports to the TCEQ Amarillo Regional Office. Such reports are required for each emission unit which is subject to Special Condition No. 10.
 - A. Each report shall contain the results of the quarterly tests required in Special Condition No. 10.
 - B. The magnitude of noncomplying emissions (with calculations) and the date and time of commencement and completion of each time period of noncomplying emissions.
 - C. For each period of noncomplying emissions, the nature and cause of any malfunction (if known), the corrective action taken, or preventive measures adopted.
 - D. If noncomplying emissions or air pollution control equipment failures or adjustments have not occurred, such information shall be stated in the report.
 - E. The reporting of noncomplying emissions required by this condition does not relieve the holder of this permit from the notification requirements of emissions events or maintenance as required by 30 TAC §§ 101.201 and 101.211.
13. For the purposes of reporting pursuant to Special Condition No. 12, noncomplying emissions are defined as follows:
 - A. For the engines monitored pursuant to Special Condition No. 10, noncomplying emissions are defined as each period of operation during which the monitored CO and NO_x concentrations exceed the limitations of Special Condition No. 6. If the concentrations are monitored once per quarter, compliance in the quarter will be based on the data collected for that quarter.

Miscellaneous

14. Piping, Valves, Flanges, Pump Systems, and Compressor Systems in VOC Service
 - A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.5 psia at 100 deg F or at maximum process operating temperature if less than 100 deg F, (2) to piping and valves two inches nominal size and smaller, or (3) where the operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list to be made available upon request.

- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable ANSI, API, ASME, or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Non-accessible valves shall be identified in a list to be made available upon request.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. No later than the next scheduled quarterly monitoring period after initial installation or replacement, all new or reworked connections shall be gas-tested or hydraulically tested at no less than normal operating pressure and adjustments made, as necessary, to obtain leak-free performance. Flanges shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

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

- F. Accessible valves shall be monitored by leak checking for fugitive emissions per applicable requirements (40 CFR Part 60 Subpart KKK § 60.632(b)) at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, bellows, and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure gauge shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

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

- G. Except as may be provided for in the special conditions of this permit, all pump and compressor seals shall be monitored with an approved gas analyzer per applicable requirements (40 CFR Part 60 Subpart KKK § 60.632(b)) at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. Seal systems that prevent emissions may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure or seals degassing to vent control systems kept in good working order.

Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

- H. Damaged or leaking valves, flanges, compressor seals, and pump seals found to be emitting VOC in excess of 10,000 ppmv or found by visual inspection to be leaking (e.g., dripping liquids) shall be tagged and replaced or repaired. Every reasonable effort shall be made to repair a leaking component as specified in this paragraph within 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. The TCEQ Executive Director, at discretion, may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown.
- I. The results of the required fugitive monitoring and maintenance program shall be made available to the TCEQ Executive Director, or designated representative, upon request. Records shall indicate appropriate dates, test methods, instrument readings, repair results, and corrective actions taken. Records of flange inspections are not required unless a leak is detected.
- J. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable NSPS, or an applicable National Emission Standards for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.

Dated January 31, 2013

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 20711 and PSDTX798M1

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

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
FL-1	Flare	NO _x	0.64	2.72
		SO ₂	84.4	184.9
		CO	5.45	23.3
		VOC	1.30	3.76
		H ₂ S	0.90	1.97
C-9	White Superior 8-GTLB 1,100-HP Compressor Engine (clean burn)	NO _x	4.9	21.2
		SO ₂	0.005	0.02
		CO	7.3	31.9
		VOC	0.73	3.19
		PM ₁₀	0.08	0.34
		PM _{2.5}	0.08	0.34
C-10	White Superior 6-GTLB 825-HP Compressor Engine (clean burn)	NO _x	3.6	15.9
		SO ₂	0.004	0.02
		CO	6.4	27.9
		VOC	0.6	2.4
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
C-11	White Superior 6-GTLB 825-HP Compressor Engine (clean burn)	NO _x	3.6	15.9
		SO ₂	0.004	0.02
		CO	6.4	27.9
		VOC	0.6	2.4
		PM ₁₀	0.06	0.26
		PM _{2.5}	0.06	0.26
PH-1	Regeneration Gas Heater	NO _x	0.43	1.88
		SO ₂	0.003	0.011
		CO	0.36	1.58
		VOC	0.024	0.1
		PM ₁₀	0.033	0.14
		PM _{2.5}	0.033	0.14
PH-2	Amine Reconcentrator	NO _x	0.39	1.72
		SO ₂	0.002	0.01
		CO	0.33	1.44
		VOC	0.022	0.1
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
FUG-MOD	Plant Modification Fugitive Emissions (5)	VOC	1.83	8.04
		H ₂ S	0.0002	0.0007

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
H ₂ S	- hydrogen sulfide

- (4) Compliance with annual emission limits (tons per year) are based on a rolling 365-day average. Also NO_x, CO, and SO₂ are PSD regulated pollutants.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: January 31, 2013