

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
ETC Texas Pipeline, Ltd.

AUTHORIZING THE OPERATION OF
King Ranch Gas Plant
Natural Gas Liquids

LOCATED AT
Kleberg County, Texas
Latitude 27° 27' 56" Longitude 98° 3' 28"
Regulated Entity Number: RN102488517

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: O3134 Issuance Date: _____

For the Commission

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting	1
Additional Monitoring Requirements	10
New Source Review Authorization Requirements	10
Compliance Requirements	11
Risk Management Plan	12
Protection of Stratospheric Ozone	12
Alternative Requirements	13
Permit Location	13
Permit Shield (30 TAC § 122.148)	13
Attachments	14
Applicable Requirements Summary	15
Additional Monitoring Requirements	32
Permit Shield	34
New Source Review Authorization References	49
Schedules	56
Alternative Requirement	58
Appendix A	61
Acronym List	62

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 DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. Emission units subject to 40 CFR Part 63, Subpart HH as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.390 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)

- J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed either before or 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) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is

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

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_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) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

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

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_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) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)

- (ii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 6. 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)
- 7. 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

8. 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

9. 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
10. 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.
11. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit’s compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering

calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

12. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
 - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Applicable requirements of 30 TAC § 116.620 for Installation and/or Modification of Oil and Gas Facilities based on the information contained in the registration application.
 - D. Boiler Standard Permit
 - E. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

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

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

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

Risk Management Plan

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

Protection of Stratospheric Ozone

- 17. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Alternative Requirements

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

Permit Location

19. 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)

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Schedules

Alternative Requirement

Applicable Requirements Summary

Unit Summary 16

Applicable Requirements Summary 22

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
AGREBV-1	GLYCOL DEHYDRATION	N/A	63HH-006	40 CFR Part 63, Subpart HH	No changing attributes.
GRPBLR	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	BLR1, BLR4, BLR5	63DDDDD-002	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRPPRESTK	STORAGE TANKS/VESSELS	TANK1, TANK2, TANK3, TANK4, TANK5, TANK6, TANK7	63HH-008	40 CFR Part 63, Subpart HH	No changing attributes.
KRGPFPG	FUGITIVE EMISSION UNITS	N/A	600000-001	40 CFR Part 60, Subpart 0000	No changing attributes.
KRGPFPG	FUGITIVE EMISSION UNITS	N/A	63HH-NA2	40 CFR Part 63, Subpart HH	No changing attributes.
KRGPG/V	FUGITIVE EMISSION UNITS	N/A	63HH-NA1	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
KRGPLL	FUGITIVE EMISSION UNITS	N/A	63HH-001	40 CFR Part 63, Subpart HH	Sampling Connection Systems = Fugitive unit contains sampling connection systems., VACUUM SERVICE = SOME COMPRESSORS OR ANCILLARY EQUIPMENT OPERATE IN VACUUM SERVICE., PUMPS = COMPONENT PRESENT, DESIGN CAPACITY < 283,000 = PLANT IS FRACTIONATING OR NON-FRACTIONATING WITH DESIGN CAPACITY GREATER THAN 283,000 SCM/DAY, COMPLY WITH §61.242-2 = YES, COMPRESSORS = COMPONENT NOT PRESENT, COMPLY WITH §61.242-3 = NO, PRD IN GAS/VAPOR SERVICE = COMPONENT NOT PRESENT, PRD IN LIQUID SERVICE = COMPONENT PRESENT, AMEL = NO APPROVED ALTERNATE, COMPLYING WITH §61.242-8 = YES, OPEN-ENDED VALVES OR LINE = COMPONENT PRESENT, COMPLY WITH § 61.242-6 = YES,

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					VALVES = COMPONENT PRESENT, DESIGN CAPACITY < 283, COMPLYING WITH §61.242-7 = YES, FLANGES AND OTHER CONNECTORS = COMPONENT PRESENT, COMPLYING WITH §61.242-8 = YES, PRODUCT ACCUMULATOR VESSEL = COMPONENT PRESENT, COMPLYING WITH §61.242-9 = YES, VAPOR RECOVERY SYSTEM = COMPONENT NOT PRESENT, ENCLOSED COMBUSTION DEVICE = COMPONENT NOT PRESENT, FLARE = COMPONENT NOT PRESENT
KRGPLL	FUGITIVE EMISSION UNITS	N/A	63HH-002	40 CFR Part 63, Subpart HH	VACUUM SERVICE = NO COMPRESSORS OR ANCILLARY EQUIPMENT OPERATE IN VACUUM SERVICE., DESIGN CAPACITY < 283, OPEN-ENDED VALVES OR LINE = COMPONENT PRESENT, AMEL = NO APPROVED ALTERNATE, COMPLY WITH § 61.242-6 = YES, DESIGN CAPACITY < 283

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
KRGPLL	FUGITIVE EMISSION UNITS	N/A	63HH-003	40 CFR Part 63, Subpart HH	VACUUM SERVICE = NO COMPRESSORS OR ANCILLARY EQUIPMENT OPERATE IN VACUUM SERVICE., DESIGN CAPACITY < 283, VALVES = COMPONENT PRESENT, DESIGN CAPACITY < 283,000 = PLANT IS FRACTIONATING OR NON- FRACTIONATING WITH DESIGN CAPACITY GREATER THAN 283,000 SCM/DAY, AMEL = NO APPROVED ALTERNATE, COMPLYING WITH §61.242-7 = YES

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
KRGPLL	FUGITIVE EMISSION UNITS	N/A	63HH-004	40 CFR Part 63, Subpart HH	VACUUM SERVICE = NO COMPRESSORS OR ANCILLARY EQUIPMENT OPERATE IN VACUUM SERVICE., DESIGN CAPACITY < 283, PRD IN LIQUID SERVICE = COMPONENT PRESENT, AMEL = NO APPROVED ALTERNATE, COMPLYING WITH §61.242-8 = YES, DESIGN CAPACITY < 283, FLANGES AND OTHER CONNECTORS = COMPONENT PRESENT, AMEL = NO APPROVED ALTERNATE, COMPLYING WITH §61.242-8 = YES
LOHM	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB-01	40 CFR Part 60, Subpart Db	No changing attributes.
PROAREG-1	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	TAC112-001	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PROAREG-1	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	60LLL-001	40 CFR Part 60, Subpart LLL	No changing attributes.
SPO-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DC-01	40 CFR Part 60, Subpart Dc	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
SPO-1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-001	40 CFR Part 63, Subpart DDDDD	No changing attributes.
TANK25	STORAGE TANKS/VESSELS	N/A	60KB-001	40 CFR Part 60, Subpart Kb	No changing attributes.
TANK25	STORAGE TANKS/VESSELS	N/A	60KB-002	40 CFR Part 60, Subpart Kb	No changing attributes.
TANK26	STORAGE TANKS/VESSELS	N/A	60KB-003	40 CFR Part 60, Subpart Kb	No changing attributes.
TANK26	STORAGE TANKS/VESSELS	N/A	60KB-004	40 CFR Part 60, Subpart Kb	No changing attributes.
TURBS	STATIONARY TURBINES	N/A	60GG-001	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)
AGREBV-1	EU	63HH-006	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.765(b)(1)(ii) § 63.764(a) § 63.764(j) § 63.765(b)(2) § 63.765(c)(3) § 63.771(c)(1) § 63.771(c)(2) § 63.771(d)(1) § 63.771(d)(4)(i) [G]§ 63.773(c)(3) § 63.773(c)(4)	The owner or operator shall connect the process vent to a control device that limits benzene emissions to < 0.90 Mg/yr.	§ 63.771(d)(3) [G]§ 63.772(c) § 63.772(e) [G]§ 63.773(c)(2)(ii) § 63.773(d)(6) § 63.773(d)(6)(i) § 63.773(d)(6)(iv) § 63.773(d)(7)	[G]§ 63.774(b)(1) § 63.774(b)(2) § 63.774(b)(4) § 63.774(b)(7) § 63.774(b)(7)(i) § 63.774(b)(7)(ii) § 63.774(b)(7)(iii) § 63.774(b)(7)(iv) § 63.774(b)(7)(v) § 63.774(b)(7)(vi) § 63.774(b)(7)(vii) § 63.774(b)(7)(viii) § 63.774(b)(8) [G]§ 63.774(c) § 63.774(g)	§ 63.764(b) [G]§ 63.773(c)(2)(ii) [G]§ 63.775(b)(1) § 63.775(b)(2) § 63.775(b)(3) § 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d) § 63.775(d)(10) § 63.775(d)(6) § 63.775(d)(7) § 63.775(d)(8) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iii) § 63.775(e)(2)(vi) § 63.775(e)(2)(xi) [G]§ 63.775(f) § 63.775(g)(1)
GRPBLR	EU	63DDDDD-002	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

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)
GRPPREST K	EU	63HH-008	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.766(b)(2) § 63.764(a) § 63.764(j)	A pressure storage vessel designed to operate as a closed system shall operate with no detectable emissions except as provided for in §63.766(c).	[G]§ 63.772(c)	[G]§ 63.774(b)(1) § 63.774(b)(2) § 63.774(g)	§ 63.764(b) § 63.775(b)(1) § 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d) § 63.775(d)(10) § 63.775(d)(7) § 63.775(e)(1) § 63.775(e)(2)(xiv) [G]§ 63.775(f) § 63.775(g)(2)
KRGPFG	EU	600000-001	VOC	40 CFR Part 60, Subpart OOOO	§ 60.5365 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart OOOO	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart OOOO	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart OOOO	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart OOOO	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart OOOO

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)
KRGPGF	EU	63HH-NA2	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(b)	This section does not apply to ancillary equipment and compressors for which the owner or operator is subject to and controlled under the requirements specified in subpart H of this part; or is subject to and controlled under the requirements specified in 40 CFR part 60, subpart OOOO. Ancillary equipment and compressors subject to and controlled under 40 CFR part 60, subpart OOOO shall submit the periodic reports specified in §63.775(e).	None	None	§ 63.769(b) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(xiv) [G]§ 63.775(f)
KRGPG/V	EU	63HH-NA1	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(2)(i) § 63.764(a) § 63.764(e)(2) § 63.764(j)	Any ancillary equipment or compressors that contain or contact a fluid with a total VHAP concentration of <10% by weight are exempt from the equipment leak requirements of § 63.764(c)(3).	[G]§ 63.772(a)	§ 63.774(d)(2) § 63.774(d)(2)(i)	None
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(e)	Equipment in vacuum service is exempt from the requirements in §61.242-2 to §61.242-11 of 40 CFR 61, Subpart V, if the equipment is identified as required.	None	[G]§ 61.246(e) [G]§ 63.774(b)(1) § 63.774(b)(2)	§ 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 § 61.242-2(a)(1) § 61.242-2(a)(2) [G]§ 61.242-2(b) [G]§ 61.242-2(c) [G]§ 61.242-2(d) [G]§ 61.242-2(e) § 61.242-2(f) [G]§ 61.242-2(g) § 61.242-2(h) § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-2 of Subpart V for pumps.	§ 61.242-2(a)(1) [G]§ 61.242-2(d) § 61.242-2(f) § 61.242-2(h) [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(h) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-6 of Subpart V for open-ended valves and lines.	[G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-8 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-8 of Subpart V for pressure relief devices in liquid service.	[G]§ 61.242-8 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-8 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-8 of Subpart V for flanges and other connectors.	[G]§ 61.242-8 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-001	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) § 61.242-9 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-9 of Subpart V for product accumulator vessels.	[G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-002	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-6 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-6 of Subpart V for open-ended valves and lines.	[G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
KRGPLL	EU	63HH-003	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 § 61.242-7(a) § 61.242-7(b) [G]§ 61.242-7(c) [G]§ 61.242-7(d) [G]§ 61.242-7(e) [G]§ 61.242-7(f) [G]§ 61.242-7(g) [G]§ 61.242-7(h) [G]§ 61.243-1 [G]§ 61.243-2 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-7 of Subpart V for valves.	§ 61.242-7(a) [G]§ 61.242-7(c) [G]§ 61.242-7(g) [G]§ 61.242-7(h) [G]§ 61.243-1 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(f) [G]§ 61.246(g) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-004	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-8 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-8 of Subpart V for pressure relief devices in liquid service.	[G]§ 61.242-8 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)
KRGPLL	EU	63HH-004	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.769(c) § 61.242-1(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-8 § 63.764(a) § 63.764(j)	Comply with the requirements of §61.242-8 of Subpart V for flanges and other connectors.	[G]§ 61.242-8 [G]§ 61.245(b) [G]§ 61.245(c) [G]§ 61.245(d)	[G]§ 61.246(a) [G]§ 61.246(b) [G]§ 61.246(c) [G]§ 61.246(e) [G]§ 61.246(i) § 61.246(j) [G]§ 63.774(b)(1) § 63.774(b)(2)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e) § 63.764(b) § 63.775(d) [G]§ 63.775(d)(3) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LOHM	EU	6oDB-01	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	6oDB-01	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	6oDB-01	PM (OPACITY)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	6oDB-01	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(a)(4)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a) § 60.48b(h)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (duct burner in a combined cycle system) shall discharge NO _x in excess of 86 ng/J heat input.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1)	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
PROAREG-1	EU	TAC112-001	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates < 4,000 scfm as determined by the specified equation.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
PROAREG-1	PRO	6oLLL-001	SO ₂	40 CFR Part 60, Subpart LLL	§ 60.640(b)	Facilities that have a design capacity less than 2 LT/D of H ₂ S in the acid gas (expressed as sulfur) are required to comply with §60.647(c) but not §60.642 through §60.646.	None	§ 60.647(c)	None
SPO-1	EU	6oDC-01	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
SPO-1	EU	6oDC-01	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
SPO-1	EU	6oDC-01	PM (OPACITY)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)

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)
SPO-1	EU	63DDDDD-001	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
TANK25	EU	60KB-001	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(b)(1)	Storage vessels specified in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
TANK25	EU	60KB-002	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(b)(1)	Storage vessels specified in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
TANK26	EU	60KB-003	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(b)(1)	Storage vessels specified in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b

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)
TANK26	EU	60KB-004	VOC	40 CFR Part 60, Subpart Kb	§ 60.112b(b)(1)	Storage vessels specified in §60.112b(b) and equipped with a closed vent system and control device are to meet the specifications in §60.112b(a)(3).	[G]§ 60.113b(c)(1) § 60.113b(c)(2) § 60.116b(a) § 60.116b(b) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) [G]§ 60.485(b)	§ 60.115b [G]§ 60.115b(c) § 60.116b(a) § 60.116b(b)	[G]§ 60.113b(c)(1) § 60.115b
TURBS	EU	60GG-001	SO2	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

Additional Monitoring Requirements

Periodic Monitoring Summary..... 33

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: PROAREG-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: TAC112-001
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: H ₂ S content of vent	
Minimum Frequency: Weekly	
Averaging Period: N/A	
Deviation Limit: H ₂ S concentration in LO-CAT vent greater than 5 ppm	
Periodic Monitoring Text: Measure H ₂ S content of LO-CAT vent with stain tubes weekly and calculate emissions in pounds per hour to demonstrate compliance with the allowable limit.	

Permit Shield

Permit Shield 35

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		
GRPBLR	BLR1, BLR4, BLR5	40 CFR Part 60, Subpart D	Construction commenced on or before 8/17/1971.
GRPCOOL	COOLNGTWR3, COOLNGTWR4	40 CFR Part 63, Subpart Q	Compounds containing chromium were not used on or after September 8, 1994.
GRPFLARE	FLARETEMP, KRGP1, KRGP11, KRGP3, KRGP4, KRGP7	30 TAC Chapter 111, Visible Emissions	Flares are emergency only.
GRPFLARE	FLARETEMP, KRGP1, KRGP11, KRGP3, KRGP4, KRGP7	40 CFR Part 60, Subpart A	Flare not subject to any applicable Subparts of 40 CFR Part 60.
GRPFLARE	FLARETEMP, KRGP1, KRGP11, KRGP3, KRGP4, KRGP7	40 CFR Part 63, Subpart A	Flare not subject to any applicable Subparts of 40 CFR Part 63.
GRPGMVA-10	EXHSTKC1V, EXHSTKC2V, EXHSTKC3V, EXHSTKC4V, EXHSTKC5V, EXHSTKC6V	40 CFR Part 60, Subpart JJJJ	Construction commenced on or before 06/12/2006.
GRPGMVA-10	EXHSTKC1V, EXHSTKC2V, EXHSTKC3V, EXHSTKC4V, EXHSTKC5V, EXHSTKC6V	40 CFR Part 63, Subpart ZZZZ	Existing spark ignition 2SLB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRPGMWA-8	EXHSTKC1W, EXHSTKC2W, EXHSTKC4W, EXHSTKC5W, EXHSTKC6W, EXHSTKC7W, EXHSTKC8W, EXHSTKC9W	40 CFR Part 60, Subpart JJJJ	Construction commenced on or before 06/12/2006.
GRPGMWA-8	EXHSTKC1W, EXHSTKC2W, EXHSTKC4W, EXHSTKC5W, EXHSTKC6W, EXHSTKC7W, EXHSTKC8W, EXHSTKC9W	40 CFR Part 63, Subpart ZZZZ	Existing spark ignition 2SLB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
GRPPRESTK	TANK1, TANK2, TANK3, TANK4, TANK5, TANK6, TANK7	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
GRPPRESTK	TANK1, TANK2, TANK3, TANK4, TANK5, TANK6, TANK7	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
GRPPRESTK	TANK1, TANK2, TANK3, TANK4, TANK5, TANK6, TANK7	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a "storage vessel with potential for flash emissions". Throughput for each tank is less than 79,500 l/day.
GRPPROTK	TANK31, TANK32, TANK33, TANK34, TANK35, TANK36, TANK37, TANK38	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRPPROTK	TANK31, TANK32, TANK33, TANK34, TANK35, TANK36, TANK37, TANK38	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
GRPPROTK	TANK31, TANK32, TANK33, TANK34, TANK35, TANK36, TANK37, TANK38	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions”. Throughput for each tank is less than 79,500 l/day.
GRPWHRUNIT	EXHSTKWHR-1, EXHSTKWHR2, EXHSTKWHR3	40 CFR Part 60, Subpart D	Construction commenced on or before 08/17/1971.
KRGPG/V	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
KRGPLL	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
RGREBV-1	N/A	40 CFR Part 60, Subpart Dc	Unit is not a steam generating unit - hot oil heat exchanger, not a combustion unit.
RGREBV-1	N/A	40 CFR Part 63, Subpart HH	Unit does not meet the definition of glycol dehydration unit in MACT HH.
SUMP	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
SUMP	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
SUMP	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
SUMP2	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 06/11/1973.
SUMP2	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANK21	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANK21	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK21	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANK22	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANK22	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANK22	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANK23	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANK23	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANK23	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANK25	N/A	40 CFR Part 60, Subpart OOOO	The tank is subject to NSPS Kb and therefore exempt from MACT HH.
TANK26	N/A	40 CFR Part 60, Subpart OOOO	The tank is subject to NSPS Kb and therefore exempt from MACT HH.
TANKDIESEL	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 10,000 gallons.
TANKDIESEL	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKDIESEL	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKEG1	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKEG1	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKEG1	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKEG2	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKEG2	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKGASOLN	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 10,000 gallons.
TANKGASOLN	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKGASOLN	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKGB1	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKGB1	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKGB1	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKGB2	N/A	40 CFR Part 60, Subpart Ka	Capacity less than 1,589,873 liters, storing condensate prior to custody transfer.
TANKGB2	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKGB2	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKLO	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKLO	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKLO	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKSO1	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKSO1	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKSO1	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKSO13	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKSO13	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKSO13	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKSO14	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKSO14	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKSO14	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKSO15	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKSO15	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKSO15	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKTEG	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKTEG	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKTEG	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKV	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TANKV	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKV	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TANKV1	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 06/11/1973.
TANKV1	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKV1	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions”. Throughput for each tank is less than 79,500 l/day.
TANKV2	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 06/11/1973.

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		
TANKV2	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TANKV2	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions”. Throughput for each tank is less than 79,500 l/day.
TKAMINE	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TKAMINE	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TKAMINE	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TKMETHANOL	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

Permit Shield

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Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
TKMETHANOL	N/A	40 CFR Part 60, Subpart OOOO	Construction commenced prior to 08/23/2011 and no modification or reconstruction has occurred after that date.
TKMETHANOL	N/A	40 CFR Part 63, Subpart HH	Tanks do not meet the definition of a “storage vessel with potential for flash emissions.” Throughput for each tank is less than 79,500 l/day.
TRKLOAD	N/A	30 TAC Chapter 115, Subchapter A	Kleberg County is not a Covered Attainment County under Chapter 115.
TRKLOAD1	N/A	30 TAC Chapter 115, Subchapter A	Kleberg County is not a Covered Attainment County under Chapter 115.
TURBS	N/A	40 CFR Part 60, Subpart KKKK	Construction commenced on or before 02/18/2005.
TURBS	N/A	40 CFR Part 63, Subpart YYYY	Existing turbine since construction commenced on or before 1/14/2003.
WHRUNIT	N/A	40 CFR Part 60, Subpart GG	Construction commenced on or before 10/3/1977.
WHRUNIT	N/A	40 CFR Part 60, Subpart KKKK	Construction commenced before 02/18/2005.
WHRUNIT	N/A	40 CFR Part 63, Subpart YYYY	Existing turbine since construction commenced on or before 1/14/2003.

New Source Review Authorization References

New Source Review Authorization References 50

New Source Review Authorization References by Emission Unit.....51

New Source Review Authorization References

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

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 48907	Issuance Date: 03/18/2014
Authorization No.: 72882	Issuance Date: 01/25/2014
Authorization No.: 73016	Issuance Date: 06/24/2005
Authorization No.: 73319	Issuance Date: 01/08/2013
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.352	Version No./Date: 03/14/1997
Number: 106.352	Version No./Date: 09/04/2000
Number: 106.359	Version No./Date: 09/10/2013
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 09/04/2000
Number: 6	Version No./Date: 12/01/1972
Number: 6	Version No./Date: 03/15/1985
Number: 7	Version No./Date: 09/17/1973
Number: 7	Version No./Date: 03/15/1985
Number: 51	Version No./Date: 03/15/1985
Number: 53	Version No./Date: 09/12/1989
Number: 66	Version No./Date: 11/05/1986
Number: 66	Version No./Date: 09/12/1989
Number: 66	Version No./Date: 07/20/1992
Number: 82	Version No./Date: 12/01/1972
Number: 86	Version No./Date: 09/12/1989
Number: 87	Version No./Date: 05/05/1976

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
AGREBV-1	TEG REBOILER	106.352/03/14/1997
BLR1	STEAM BOILER NO. 1	73319
BLR4	STEAM BOILER NO. 4	73319
BLR5	STEAM BOILER NO. 5	73319
COOLNGTWR3	COOLING TOWER 3	106.371/09/04/2000
COOLNGTWR4	COOLING TOWER 4	106.371/09/04/2000
EXHSTKC1V	COMPRESSOR ENGINE 1V	73016
EXHSTKC1W	COMPRESSOR ENGINE 1W	73016
EXHSTKC2V	COMPRESSOR ENGINE 2V	73016
EXHSTKC2W	COMPRESSOR ENGINE 2W	73016
EXHSTKC3V	COMPRESSOR ENGINE 3V	73016
EXHSTKC4V	COMPRESSOR ENGINE 4V	73016
EXHSTKC4W	COMPRESSOR ENGINE 4W	73016
EXHSTKC5V	COMPRESSOR ENGINE 5V	73016
EXHSTKC5W	COMPRESSOR ENGINE 5W	73016
EXHSTKC6V	COMPRESSOR ENGINE 6V	73016
EXHSTKC6W	COMPRESSOR ENGINE 6W	73016
EXHSTKC7W	COMPRESSOR ENGINE 7W	73016

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
EXHSTKC8W	COMPRESSOR ENGINE 8W	6/12/01/1972
EXHSTKC9W	COMPRESSOR ENGINE 9W	6/12/01/1972
EXHSTKWHR-1	WASTE HEAT RECVY UNIT STACK 1	73319
EXHSTKWHR2	WASTE HEAT RECVY UNIT STACK 2	73319
EXHSTKWHR3	WASTE HEAT RECVY UNIT STACK 3	73319
FLARETEMP	TEMPORARY FLARE	106.492/09/04/2000
KRGP11	24" EMERGENCY ADDITIONAL FLARE	7/09/17/1973
KRGP1	30" EMERGENCY FLARE	7/09/17/1973
KRGP3	24" EMERGENCY I.P. FLARE	7/09/17/1973
KRGP4	24" EMERGENCY I.P. FLARE	7/09/17/1973
KRGP7	16" EMERGENCY I.P. FLARE	7/09/17/1973
KRGPFG	FLASH GAS FUGITIVES	72882
KRPG/V	NONMONITORED GAS VAPOR FUGITIVES	66/09/12/1989
KRGPLL	MONITORED LT LIQUID FUGITIVES	72882
LOHM	MARS LEAD OIL HEATER	7/03/15/1985
PROAREG-1	REGENERATOR	66/07/20/1992
RGREBV-1	ETHYLENE GLYCOL REBOILER	106.352/09/04/2000
SPO-1	SPONGE OIL HEATER	48907

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
SUMP2	SUMP	66/11/05/1986
SUMP	CLASSIFIER SUMP	66/11/05/1986
TANK1	ISO BUTANE TANK	106.476/09/04/2000
TANK21	LPD TANK NO. 21	73319
TANK22	HPD TANK NO. 22	73319
TANK23	LPD TANK NO. 23	73319
TANK25	HPD/SLOP OIL TANK	72882
TANK26	HPD/SLOP OIL TANK	72882
TANK2	NORMAL BUTANE TANK	106.476/09/04/2000
TANK31	PROPANE TANK	87/05/05/1976
TANK32	PROPANE TANK	87/05/05/1976
TANK33	PROPANE TANK	87/05/05/1976
TANK34	PROPANE TANK	87/05/05/1976
TANK35	PROPANE TANK	87/05/05/1976
TANK36	PROPANE TANK	87/05/05/1976
TANK37	PROPANE TANK	87/05/05/1976
TANK38	PROPANE TANK	87/05/05/1976
TANK3	ISO BUTANE TANK	106.476/09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
TANK4	NORMAL BUTANE TANK	106.476/09/04/2000
TANK5	ISO PENTANE TANK	106.476/09/04/2000
TANK6	ISO PENTANE TANK	106.476/09/04/2000
TANK7	DEBUTANIZER TANK	106.476/09/04/2000
TANKDIESEL	DIESEL TANK	53/09/12/1989
TANKEG1	ETHYLENE GLYCOL TANK	51/03/15/1985
TANKEG2	ETHYLENE GLYCOL TANK	51/03/15/1985
TANKGASOLN	GASOLINE TANK	53/09/12/1989
TANKGB1	GUNBARREL NO. 1	72882
TANKGB2	GUNBARREL NO. 2	106.352/09/04/2000
TANKLO	LEAN OIL TANK	72882
TANKSO13	SLOP OIL TANK	72882
TANKSO14	SLOP OIL TANK	72882
TANKSO15	SLOP OIL TANK	72882
TANKSO1	SLOP OIL TANK	72882
TANKTEG	GLYCOL TANK	51/03/15/1985
TANKV1	VAR SOL TANK	106.472/09/04/2000
TANKV2	VAR SOL TANK	106.472/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units 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
TANKV	VAR SOL TANK	72882
TKAMINE	AMINE TANK	51/03/15/1985
TKMETHANOL	METHANOL TANK	86/09/12/1989
TRKLOAD1	HPD TRUCK LOADING	72882
TRKLOAD	TRUCK LOADING	53/09/12/1989
TURBS	SOLAR TURBINE	6/03/15/1985
WHRUNIT	WASTE HEAT RECOVERY/WESTINGHOUSE TURBINE	73319

Schedules

Compliance Schedule 57

Compliance Schedule

A. Compliance Schedule				
1. Specific Non-Compliance Situation				
Unit/Group/ Process ID. No(s).	SOP Index No.	Pollutant	Applicable Requirement	
			Citation	Text Description
Tank 22		VOC	Permit 73319	PERMIT 73319 MAERT
2. Compliance Status Assessment Method and Records Location				
Compliance Status Assessment Method			Location of Records/Documentation	
Citation	Text Description			
Permit 73319	Process simulation		Plant Office	
3. Non-compliance Situation Description				
Exceeding permit VOC limits				
4. Corrective Action Plan Description				
Remove TANK 22 from service and re-route product to TANK 25 and TANK 26.				
5. List of Activities/Milestones to Implement the Corrective Action Plan				
1	Revision application for permit 73319 submitted 12-22-2014.			
2	Until compliance is achieved, continue to submit deviation reports pursuant to 30 TAC Chapter 122			
6. Previously Submitted Compliance Plan(s)		Type of Action		Date Submitted
		NOV		8/25/2014
7. Progress Report Submission Schedule		After the FOP is issued, every 6 months until compliance is achieved		

Alternative Requirement

Alternative Requirement 59



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

REGULATORY AFFAIRS

1100 1986

SS. TEXAS DOWNSON

AUG 12 1986

Mr. K. E. Taylor
Exxon Company, U.S.A.
Post Office Box 2528
Corpus Christi, Texas 78403-2528

Dear Mr. Taylor:

This is in response to your July 2, 1986, letter to the Texas Air Control Board (TACB) containing your request under Title 40 CFR 60.334(b)(2) of a modified custom schedule for monitoring sulfur and nitrogen content of the fuel fed to the gas turbines at Exxon's King Ranch Gas Plant.

The U.S. Environmental Protection Agency (EPA) has reviewed the fuel data submitted by Exxon and the custom schedule proposed by Exxon and recommended by the TACB for quarterly analysis of the sulfur and nitrogen content of the fuel fed to the gas turbines at the King Ranch Gas Plant. EPA agrees that reduced monitoring of the fuel may be sufficient to ensure compliance under NSPS, Subpart GG, based on the low sulfur content of the natural gas fired.

It has been determined by the EPA that, effective the date of this custom schedule approval, the following conditions must be fulfilled:

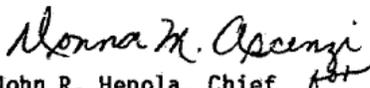
1. Monitoring of fuel nitrogen content shall not be required while the turbines fire natural gas.
2. Sulfur Monitoring
 - a. Monitoring for fuel sulfur content shall be conducted using one of the approved ASTM reference methods for measurement of sulfur in gaseous fuels. The reference methods are: ASTM D1072-80; ASTM D3031-81; ASTM D3246-81; and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).
 - b. Effective the date of this custom schedule, sulfur monitoring shall be conducted once per quarter for six quarters.
 - c. If after the monitoring required in 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance to sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per annum.

This monitoring shall be conducted during the first and third quarters of the calendar year.

- d. Should any sulfur analysis as required above indicate noncompliance with 40 CFR 60.333, Exxon shall notify the Texas Air Control Board (TACB) of such excess emissions and shall conduct sulfur monitoring weekly until such analysis indicates a return to compliance. Upon return to compliance, custom schedule testing of fuel sulfur content shall be reinitiated under paragraph 2(b), above.
3. If there is a change in fuel supply, Exxon must notify the TACB of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply, in which event weekly sulfur monitoring shall be conducted during the interim period when this custom schedule is being re-examined.
4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.
5. This custom schedule shall supplement the custom schedule issued to Exxon on December 27, 1985, following Exxon's fulfillment of such and request under condition four (4) of that custom schedule.

If you should have any questions regarding this matter, please contact Doug Hendrickson of my staff at (214) 767-6328.

Sincerely yours,


John R. Hepola, Chief *for*
Air Enforcement Branch

cc: Doyle Pendleton, Director
TACB, Austin

Appendix A

Acronym List 62

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
EIP	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