

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Exxon Mobil Corporation

AUTHORIZING THE OPERATION OF

King Ranch Gas Plant  
Natural Gas Liquids

LOCATED AT

Kleberg County, Texas

Latitude 27° 27' 56" Longitude 098° 03' 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: 03134 Issuance Date: September 14, 2009

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For the Commission

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## **GENERAL TERMS AND CONDITIONS**

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

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

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

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

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

## **SPECIAL TERMS AND CONDITIONS:**

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

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. 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, Startup, 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 before 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 30% 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)(A) (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)(A), complying with 30 TAC §§ 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from (but not limited to) particulate matter, acid gases, and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that do not emit visible emissions such as vents that emit only VOC or vents that provide passive ventilation, such as plumbing vents; or vents that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(A) and Compliance Assurance Monitoring, as specified in the attached Applicable Requirements Summary and “Additional 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 three 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)(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)(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. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC §§ 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC §§ 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from (but not limited to) particulate matter, acid gases, and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that do not emit visible emissions such as vents that emit only VOC or vents that provide passive ventilation, such as plumbing vents; or vents that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) and Compliance Assurance Monitoring, as specified in the attached “Applicable Requirements Summary” and “Additional 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 three 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.

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

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

- (ii) Title 30 TAC §§ 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC §§ 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from (but not limited to) particulate matter, acid gases, and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - 1. An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
  - 2. Records of all observations shall be maintained.
  - 3. Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
  - 4. Compliance Certification:
    - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC §§ 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC §§ 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC §§ 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from (but not limited to) particulate matter, acid gases, and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - 1. An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
  - 2. Records of all observations shall be maintained.
  - 3. Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each

source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

4. Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC §§ 111.111(a)(8) and (a)(8)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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. 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**

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

## **New Source Review Authorization Requirements**

8. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
9. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
10. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit’s compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.

- A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
  - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
11. The permit holder shall comply with the following requirements of Air Quality Standard Permits:
- A. Registration requirements listed in 30 TAC § 116.611
  - B. General Conditions listed in 30 TAC § 116.615
  - C. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application
  - D. Applicable requirements of 30 TAC § 116.620 for Installation and/or Modification of Oil and Gas Facilities based on the information contained in the registration application

### **Compliance Requirements**

12. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
13. Use of Discrete Emission Credits to Comply with 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 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:

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

### **Risk Management Plan**

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

### **Protection of Stratospheric Ozone**

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

### **Permit Location**

- 16. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on-site.

### **Permit Shield (30 TAC § 122.148)**

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

## **ATTACHMENTS**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

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

**Applicable Requirements Summary .....20**

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
LOHM	Boilers/Steam Generators/Steam Generating Units	N/A	60DB-01	40 CFR Part 60, Subpart Db	No changing attributes.
SPO-1	Boilers/Steam Generators/Steam Generating Units	N/A	60DC-01	40 CFR Part 60, Subpart Dc	No changing attributes.
KRGPG/L	Fugitive Emission Units	N/A	63HH-NA	40 CFR Part 63, Subpart HH	No changing attributes.
KRGPG/V	Fugitive Emission Units	N/A	63HH-NA	40 CFR Part 63, Subpart HH	No changing attributes.
KRGPLL	Fugitive Emission Units	N/A	63HH-001	40 CFR Part 63, Subpart HH	Pumps = component present, design cap < 283k = plant is fractionating or non-fractionating with design capacity greater than 283,000 scm/day, AMEL = no approved alternate means of emission limitation, comply with §61.242-2 = yes, design capacity < 283
KRGPLL	Fugitive Emission Units	N/A	63HH-002	40 CFR Part 63, Subpart HH	Open-ended valves or line = component present, AMEL = no approved alternate, comply with § 61.242-6 = yes, design capacity < 283
KRGPLL	Fugitive Emission Units	N/A	63HH-003	40 CFR Part 63, Subpart HH	Valves = component present, design capacity < 283,000 = plant is fractionating or non-fractionating with design

### Unit Summary

Unit/Group/Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement driver
					capacity greater than 283,000 scm/day, AMEL = no approved alternate, complying with §61.242-7 = yes
KRGPLL	Fugitive Emission Units	N/A	63HH-004	40 CFR Part 63, Subpart HH	Pressure relief device in liquid service = component present, AMEL = no approved alternate, complying with §61.242-8 = yes, design capacity < 283, flanges and other connect = component present, AMEL = no approved alternate, complying with §61.242-8 = yes
KRGPNMLL	Fugitive Emission Units	N/A	63HH-NA	40 CFR Part 63, Subpart HH	No changing attributes.
AREG-1	Gas Sweetening/Sulfur Recovery Units	N/A	TAC112-001	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
AREG-1	Gas Sweetening/Sulfur Recovery Units	N/A	60LLL-001	40 CFR Part 60, Subpart LLL	No changing attributes.
AGREBV-1	Glycol Dehydration Unit Attributes	N/A	63HH-006	40 CFR Part 63, Subpart HH	No changing attributes.
RGREBV-1	Glycol Dehydration Unit Attributes	N/A	63HH-007	40 CFR Part 63, Subpart HH	No changing attributes.
TURBS	Stationary Turbines	N/A	60GG-001	40 CFR Part 60, Subpart GG	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.

### Unit Summary

<b>Unit/Group/Process ID No.</b>	<b>Unit Type</b>	<b>Group/Inclusive Units</b>	<b>SOP Index No.</b>	<b>Regulation</b>	<b>Requirement driver</b>
GRPPROTK	Storage Tanks/Vessels	TANK31, TANK32, TANK33, TANK34, TANK35, TANK36, TANK37, TANK38	63HH-008	40 CFR Part 63, Subpart HH	No changing attributes.

### Applicable Requirements Summary

Unit/Group/Process		SOP Index No.	Pollutant	Emission Limitation/Standard or Equipment Specification		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)
ID No.	Type			Name	Citation				
LOHM	EU	60DB-01	SO2	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	§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	60DB-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	§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	60DB-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	§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
LOHM	EU	60DB-01	NOX	40 CFR Part 60, Subpart Db	§ 60.44b(a)(4)(i) § 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 NOx in excess of 86 ng/J heat input.	§ 60.46b(c) § 60.46b(f) [G]§ 60.46b(f)(1)	§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b)
SPO-1	EU	60DC-01	SO2	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) § 60.48c(i)	§ 60.48c(a) § 60.48c(a)(1) § 60.48c(a)(3)

### Applicable Requirements Summary

Unit/Group/Process		SOP Index No.	Pollutant	Emission Limitation/Standard or Equipment Specification		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)
ID No.	Type			Name	Citation				
SPO-1	EU	60DC-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) § 60.48c(i)	§ 60.48c(a) § 60.48c(a)(1) § 60.48c(a)(3)
SPO-1	EU	60DC-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) § 60.48c(i)	§ 60.48c(a) § 60.48c(a)(1) § 60.48c(a)(3)
KRGPG/L	EU	63HH-NA	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(2)(i) § 63.764(a)	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) § 63.775(a)	§ 63.760(a)(1)(ii) § 63.774(a) § 63.774(d)(2)(i)	None
KRGPG/V	EU	63HH-NA	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(2)(i) § 63.764(a)	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) § 63.775(a)	§ 63.760(a)(1)(ii) § 63.774(a) § 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(a) § 61.242-1(b) § 61.242-1(d) [G]§ 61.242-10 [G]§ 61.242-2	Comply with the requirements of §61.242-2 of Subpart V for pumps.	[G]§ 61.242-2 [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) § 63.774(a)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e)
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	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) § 63.774(a)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e)

## Applicable Requirements Summary

Unit/Group/Process		SOP Index No.	Pollutant	Emission Limitation/Standard or Equipment Specification		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)
ID No.	Type			Name	Citation				
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 [G]§ 61.242-7 [G]§ 61.243-1 [G]§ 61.243-2	Comply with the requirements of §61.242-7 of Subpart V for valves in gas/vapor or light liquid service.	[G]§ 61.242-7 [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) § 63.774(a)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) § 61.247(d) [G]§ 61.247(e)
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	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) § 63.774(a)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e)
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	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) § 63.774(a)	[G]§ 61.247(a) [G]§ 61.247(b) § 61.247(c) [G]§ 61.247(e)
KRGNMMLL	EU	63HH-NA	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(2)(i) § 63.764(a)	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) § 63.775(a)	§ 63.760(a)(1)(ii) § 63.774(a) § 63.774(d)(2)(i)	None
AREG-1	EU	TAC112-001	SO2	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a)	No person may cause, suffer, allow, or permit emissions of SO2 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)
AREG-1	PRO	60LLL-001	SO2	40 CFR Part 60, Subpart LLL	§ 60.640(b)	Facilities that have a design capacity less than 2 LT/D of H <sub>2</sub> 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

### Applicable Requirements Summary

Unit/Group/Process		SOP Index No.	Pollutant	Emission Limitation/Standard or Equipment Specification		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)
ID No.	Type			Name	Citation				
AGREBV-1	EU	63HH-006	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.765(c)(1) § 63.762(b) § 63.762(c) § 63.764(a) § 63.765(c)(3)	The owner/operator shall control air emissions by connecting the process vent to a process natural gas line	§ 63.762(d)	None	§ 63.775(b)(1) § 63.775(b)(3) § 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6)
RGREBV-1	EU	63HH-007	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(1)(ii) § 63.764(a) § 63.764(e)(1)	The actual average emissions of benzene from the glycol dehydration unit process vent are < 0.90 megagram/yr.	[G]§ 63.772(b)(2)	§ 63.760(a)(1)(ii) § 63.774(a) § 63.774(d)(1)(ii)	None
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
GRPPRESTK	EU	63HH-008	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.766(b)(2) § 63.764(a) § 63.766(c)	A pressure storage vessel designed to operate as a closed system shall operate with no detectable emissions except as provided for in paragraph (c) of this section.	[G]§ 63.772(c) § 63.775(a)	§ 63.760(a)(1)(ii) § 63.774(a) [G]§ 63.774(b)(1) § 63.774(b)(2)	§ 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d)(10) § 63.775(d)(7) § 63.775(d)(9) [G]§ 63.775(f)
GRPPROTK	EU	63HH-008	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.766(b)(2) § 63.764(a) § 63.766(c)	A pressure storage vessel designed to operate as a closed system shall operate with no detectable emissions except as provided for in paragraph (c) of this section.	[G]§ 63.772(c) § 63.775(a)	§ 63.760(a)(1)(ii) § 63.774(a) [G]§ 63.774(b)(1) § 63.774(b)(2)	§ 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d)(10) § 63.775(d)(7) § 63.775(d)(9) [G]§ 63.775(f)

**Additional Monitoring Requirements**

**Periodic Monitoring Summary .....25**

### Periodic Monitoring Summary

<b>UNIT/GROUP/PROCESS INFORMATION</b>	
ID No.: AREG-1	Applicable Form: OP-UA10
Control Device ID No.:	
<b>APPLICABLE REGULATORY REQUIREMENT</b>	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: TAC112-001
Pollutant: SO <sub>2</sub>	Main Standard: § 112.7(a)
<b>MONITORING INFORMATION</b>	
Indicator: H <sub>2</sub> S content of vent	
Minimum Frequency: Weekly	
Averaging Period: N/A	
Deviation Limit: H <sub>2</sub> S concentration in LO-CAT vent greater than 5 ppm.	
Periodic Monitoring Text: Measure H <sub>2</sub> 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 .....27**

## 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		
AGREBV-1	N/A	40 CFR Part 60, Subpart Dc	Duty is less than 10 MMBtu/hr.
GRPBLR	BLR2, BLR4, BLR5, RGEV-1	40 CFR Part 60, Subpart D	Construction commenced on or before 8/17/1971.
RGREBV-1	N/A	40 CFR Part 60, Subpart Dc	Duty is less than 10 MMBtu/hr.
GRPFLARE	FLARETEMP, KRGP1, KRGP10, KRGP11, KRGP3, KRGP4, KRGP7, KRGP9	30 TAC Chapter 111	Flares are emergency only.
GRPFLARE	FLARETEMP, KRGP1, KRGP10, KRGP11, KRGP3, KRGP4, KRGP7, KRGP9	40 CFR Part 60, Subpart A	Flare not subject to any applicable Subparts of 40 CFR Part 60.
GRPFLARE	FLARETEMP, KRGP1, KRGP10, KRGP11, KRGP3, KRGP4, KRGP7, KRGP9	40 CFR Part 63, Subpart A	Flare not subject to any applicable Subparts of 40 CFR Part 63.
KRGPGL	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
KRGPV	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
KRGPPL	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
KRGNMLL	N/A	40 CFR Part 60, Subpart KKK	Construction commenced on or before 1/20/1984.
GRPGMVA-10	EXHSTKC1V, EXHSTKC2V, EXHSTKC3V, EXHSTKC4V, EXHSTKC5V, EXHSTKC6V	40 CFR Part 63, Subpart ZZZZ	Existing lean burn engines since construction commenced on or before 12/19/2002.
GRPGMWA-8	EXHSTKC1W, EXHSTKC2W, EXHSTKC4W, EXHSTKC5W, EXHSTKC6W, EXHSTKC7W, EXHSTKC8W, EXHSTKC9W	40 CFR Part 63, Subpart ZZZZ	Existing lean burn engines since construction commenced on or before 12/19/2002.

### 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		
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 63, Subpart YYYY	Existing turbine since construction commenced on or before 1/14/2003.
GRPPRESTK	TANK1, TANK2, TANK3, TANK4, TANK5, TANK6, TANK7	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
GRPPROTK	TANK31, TANK32, TANK33, TANK34, TANK35, TANK36, TANK37, TANK38	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
SUMP	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
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.
TANK21	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
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.

### 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		
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 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.
TANK24	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANK24	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.
TANKCOND	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 1,589,873 liters, storing condensate prior to custody transfer.
TANKCOND	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.
TANKDIESEL	N/A	40 CFR Part 60, Subpart Kb	Capacity less than 10,000 gallons.
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.

### 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		
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 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.
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 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

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		
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 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.
TANKSO11	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKSO11	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.
TANKSO12	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
TANKSO12	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.
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.

### 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		
TANKSO14	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.
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.
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 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.
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.
TKAMINE	N/A	40 CFR Part 60, Subpart K	Construction commenced on or before 6/11/1973.

### 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		
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.
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, Loading and Unloading of VOC	Kleberg County is not a Covered Attainment County under Chapter 115.

**New Source Review Authorization References**

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

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

### New Source Review Authorization References

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

PSD Permits	NA Permits
PSD Permit No.:	NA Permit No.:
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 48907	Authorization No.: 72882
Authorization No.: 73016	Authorization No.:
Authorization No.: 73319	Authorization No.:
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 006	Version No./Date: 12/01/1972
Number: 006	Version No./Date: 03/15/1985
Number: 007	Version No./Date: 09/17/1973
Number: 007	Version No./Date: 03/15/1985
Number: 051	Version No./Date: 03/15/1985
Number: 053	Version No./Date: 09/12/1989
Number: 066	Version No./Date: 09/12/1989
Number: 066	Version No./Date: 07/20/1992
Number: 072	Version No./Date: 05/08/1972
Number: 080	Version No./Date: 11/05/1986
Number: 086	Version No./Date: 09/12/1989
Number: 087	Version No./Date: 05/05/1976
Number: 103	Version No./Date: 09/23/1982
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 03/14/1997
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: 106.476	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 09/04/2000
<b>Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum</b>	
Permit No.:	Permit No.:

### 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
AREG-1	REGENERATOR	066/07/20/1992
BLR2	STEAM BOILER NO. 2	73319
BLR4	STEAM BOILER NO. 4	73319
BLR5	STEAM BOILER NO. 5	73319
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
EXHSTKC8W	COMPRESSOR ENGINE 8W	006/12/01/1972
EXHSTKC9W	COMPRESSOR ENGINE 9W	006/12/01/1972
FLARETEMP	TEMPORARY FLARE	106.492/09/04/2000
KRGP11	24" EMERGENCY ADDITIONAL FLARE	007/09/17/1973
KRGP1	30" EMERGENCY FLARE	007/09/17/1973
KRGP3	24" EMERGENCY I.P. FLARE	007/09/17/1973
KRGP4	24" EMERGENCY I.P. FLARE	007/09/17/1973
KRGP7	16" EMERGENCY I.P. FLARE	007/09/17/1973
KRGP9	24" EMERGENCY COLD FLARE	007/09/17/1973
KRPG/L	NONMONITORED GAS LIQUID FUGITIVES	066/09/12/1989
KRPG/V	NONMONITORED GAS VAPOR FUGITIVES	066/09/12/1989

### 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
KRGPLL	MONITORED LT LIQUID FUGITIVES	72882
KRGPNMLL	NONMONITORED LIGHT LIQUID FUGITIVES	066/09/12/1989
LOHM	HEATER	007/03/15/1985
RGEBV-1	STEAM BOILER NO. 1	73319
RGREBV-1	ETHANE REBOILER	106.352/03/14/1997
SPO-1	SPONGE OIL HEATER	48907
SUMP	CLASSIFIER SUMP	066/11/05/1986
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
TANK24	EMERGENCY TANK NO. 24	72882
TANK2	NORMAL BUTANE TANK	106.476/09/04/2000
TANK31	PROPANE TANK	087/05/05/1976
TANK32	PROPANE TANK	087/05/05/1976
TANK33	PROPANE TANK	087/05/05/1976
TANK34	PROPANE TANK	087/05/05/1976
TANK35	PROPANE TANK	087/05/05/1976
TANK36	PROPANE TANK	087/05/05/1976
TANK37	PROPANE TANK	087/05/05/1976
TANK38	PROPANE TANK	087/05/05/1976
TANK3	ISO BUTANE TANK	106.476/09/04/2000
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	ISO PENTANE TANK	106.476/09/04/2000
TANKCOND	CONDENSATE TANK	053/09/12/1989
TANKDIESEL	DIESEL TANK	053/09/12/1989

### 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
TANKEG1	ETHYLENE GLYCOL TANK	051/03/15/1985
TANKEG2	ETHYLENE GLYCOL TANK	051/03/15/1985
TANKGASOLN	GASOLINE TANK	053/09/12/1989
TANKGB1	GUNBARREL NO. 1	72882
TANKGB2	GUNBARREL NO. 2	103/09/23/1982
TANKLO	LEAN OIL TANK	72882
TANKSO11	SLOP OIL TANK	72882
TANKSO12	SLOP OIL TANK	72882
TANKSO13	SLOP OIL TANK	072/05/08/1972
TANKSO14	SLOP OIL TANK	72882
TANKSO15	SLOP OIL TANK	72882
TANKSO1	SLOP OIL TANK	72882
TANKTEG	GLYCOL TANK	051/03/15/1985
TANKV	VARISOL TANK	72882
TKAMINE	AMINE TANK	051/03/15/1985
TKMETHANOL	METHANOL TANK	086/09/12/1989
TURBS	SOLAR TURBINE	006/03/15/1985
WHRUNIT	WESTINGHOUSE TURBINE	73319

**APPENDIX A**

**Acronym List.....40**

## 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	Houston/Galveston (nonattainment area)
H <sub>2</sub> S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MMBtu/hr	Million British thermal units per hour
MRRT	monitoring, recordkeeping, reporting, and testing
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PM	particulate matter
ppmv	parts per million by volume
PSD	prevention of significant deterioration
RO	Responsible Official
SO <sub>2</sub>	sulfur dioxide
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	Volatile organic compound