

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

TX LFG Energy, LP

AUTHORIZING THE OPERATION OF

Coastal Plains LFGTE Facility
Electric Services

LOCATED AT

Galveston County, Texas

Latitude 29° 25' 2" Longitude 95° 11' 51"

Regulated Entity Number: RN102496130

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: O2538 Issuance Date: _____

For the Commission

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General Terms and Conditions

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

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

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

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

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

Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

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

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. Emission units subject to 40 CFR Part 63, Subpart AAAA as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.840 which incorporates the 40 CFR Part 63 Subpart by reference.
 - G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
 - (i) Title 30 TAC § 101.352 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
 - (vi) Title 30 TAC § 101.359 (relating to Reporting)
 - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
 - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):

- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder

shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed

water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) 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. 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.

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.

New Source Review Authorization Requirements

6. 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
7. 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.
8. 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. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

9. 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.

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

- (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

12. 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)

13. The permit holder may comply with the following 30 TAC Chapter 101, Subchapter H, Division 5 (System Cap Trading) Requirements for an electric generating facility participating in a system cap:

- A. Title 30 TAC § 101.383 (relating to General Provisions)
- B. Title 30 TAC § 101.385 (relating to Recordkeeping and Reporting)

Permit Location

14. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit at TX LFG Energy LP, 680 Andersen Drive, Foster Plaza 10, 5th Floor, Pittsburgh, PA 15220.
15. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

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

Attachments

Applicable Requirements Summary

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 14

Applicable Requirements Summary15

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

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GASTREAT	MISCELLANEOUS UNITS	N/A	60WWW-1	40 CFR Part 60, Subpart WWW	No changing attributes.
GASTREAT	MISCELLANEOUS UNITS	N/A	63AAAA-1	40 CFR Part 63, Subpart AAAA	No changing attributes.
GRPENGINE	SRIC ENGINES	E-1, E-2, E-3, E-4	R117-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRPENGINE	SRIC ENGINES	E-1, E-2, E-3, E-4	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GASTREAT	CD	60WWW-1	NMOC	40 CFR Part 60, Subpart WWW	§ 60.752(b)(2)(iii)(C) § 60.752(b)(2)(iv) § 60.753(f)	Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of paragraph (b)(2)(iii) (A) or (B) of this section.	None	None	None
GASTREAT	CD	63AAAA-1	VOC	40 CFR Part 63, Subpart AAAA	§ 63.1955(a)(1) § 63.1955(b)	Comply with the requirements of 40 CFR part 60, subpart WWW.	§ 63.1960	§ 63.1980(a) § 63.1980(b)	§ 63.1980(a)
GRPENGIN E	EU	R117-1	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(9)(B)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.320(a) § 117.320(b) [G]§ 117.320(c) § 117.320(i) § 117.320(j) § 117.320(k) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.320(d) [G]§ 117.320(e) § 117.320(h) § 117.320(k) [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(D) § 117.340(h) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1)	§ 117.320(f) § 117.345(a) § 117.345(f) § 117.345(f)(12) § 117.345(f)(3) § 117.345(f)(3)(B) § 117.345(f)(9)	§ 117.320(g) § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) [G]§ 117.345(e) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

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)
							§ 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§ 117.8140(a)(2)(B) § 117.8140(b)		
GRPENGIN E	EU	R117-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.310(c)(1) § 117.310(c)(1)(B)	CO emissions must not exceed 3.0 g/hp-hr for stationary internal combustion engines.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a)(2)(D) § 117.340(h) § 117.345(f)(3) § 117.345(f)(3)(A) § 117.345(f)(3)(A)(ii) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) § 117.8140(a) § 117.8140(a)(1) § 117.8140(a)(2) § 117.8140(a)(2)(A) [G]§	§ 117.345(a) § 117.345(f) § 117.345(f)(12) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) [G]§ 117.345(e) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8)

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)
							117.8140(a)(2)(B) § 117.8140(b)		
GRPENGIN E	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.13 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(j) § 63.6640(b)	For each existing non-emergency, non-black start landfill or digester gas-fired stationary RICE, located at an area source, you must comply with the requirements as specified in Table 2d.13.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b)	§ 63.6625(j) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

Permit Shield

Permit Shield 19

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		
GASTREAT	N/A	30 TAC Chapter 115, Mun. Solid Waste Landfills	Applies to the owner/operator of the MSW landfill.
GASTREAT	N/A	40 CFR Part 60, Subpart Cc	Modifications took place after May 30, 1991.
GRPENGINE	E-1, E-2, E-3, E-4	40 CFR Part 60, Subpart JJJJ	Engines were not manufactured after July 1, 2007, not modified or reconstructed after June 12, 2006.

New Source Review Authorization References

New Source Review Authorization References 21

New Source Review Authorization References by Emission Unit..... 22

New Source Review Authorization References

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

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX972	Issuance Date: 10/11/2011
Nonattainment (NA) Permits	
NA Permit No.: No31	Issuance Date: 10/11/2011
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.: 44277	Issuance Date: 10/11/2011
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.472	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
E-1	ENGINE/GENSET NO. 1	44277, N031, PSDTX972
E-2	ENGINE/GENSET NO. 2	44277, N031, PSDTX972
E-3	ENGINE/GENSET NO. 3	44277, N031, PSDTX972
E-4	ENGINE/GENSET NO. 4	44277, N031, PSDTX972
GASTREAT	LANDFILL GAS TREATMENT SKID	44277, N031, PSDTX972

Appendix A

Acronym List 24

Acronym List

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

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

Appendix B

Major NSR Summary Table..... 26

Major NSR Summary Table

Permit Number: 44277, PSD-TX972, and N-031			Issuance Date: October 10, 2011				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-1	Engine/Genset No. 1	CO	15.50		6, 7	6, 7, 8	6, 9
		NOx	3.10		6, 7	6, 7, 8	6, 9
		VOC	0.83		6, 7	6, 7, 8	6, 9
		PM10	0.49		4	4, 8	
		SO2	1.27			8	
		HCl	0.14				
E-2	Engine/Genset No. 2	CO	15.50		6, 7	6, 7, 8	6, 9
		NOx	3.10		6, 7	6, 7, 8	6, 9
		VOC	0.83		6, 7	6, 7, 8	6, 9
		PM10	0.49		4	4, 8	
		SO2	1.27			8	
		HCl	0.14				
E-3	Engine/Genset No. 3	CO	15.50		6, 7	6, 7, 8	6, 9
		NOx	3.10		6, 7	6, 7, 8	6, 9
		VOC	0.83		6, 7	6, 7, 8	6, 9
		PM10	0.49		4	4, 8	
		SO2	1.27			8	
		HCl	0.14				
E-4	Engine/Genset No. 4	CO	15.50		6, 7	6, 7, 8	6, 9
		NOx	3.10		6, 7	6, 7, 8	6, 9
		VOC	0.83		6, 7	6, 7, 8	6, 9
		PM10	0.49		4	4, 8	
		SO2	1.27			8	
		HCl	0.14				
E-1, E-2, E-3, and E-4	Engine/Gensets Nos. 1-4	CO		271.56	6, 7	6, 7, 8	6, 9
		NOx		54.31	6, 7	6, 7, 8	6, 9
		VOC		14.54	6, 7	6, 7, 8	6, 9
		PM10		8.59	4	4, 8	
		SO2		22.25		8	

Permit Number: 44277, PSD-TX972, and N-031			Issuance Date: October 10, 2011				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		HCl		2.45			

Footnotes:

- (1) Emission point identification-either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC -volatile organic compounds as defined in Title 30 Texas Administrative code § 101.1
 - NOx -total oxides of nitrogen
 - SO2 -sulfur dioxide
 - PM10 -total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
 - CO -carbon monoxide
 - SO2 -sulfur dioxide
 - HCl -hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period

Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Protecting Texas by Reducing and Preventing Pollution

September 26, 2011

MR MARTIN L RYAN
VICE PRESIDENT GENERAL MANAGER
TX LFG ENERGY LP
680 ANDERSEN DR FOSTER PLZ 10 5TH FL
PITTSBURGH PA 15220-2759

Re: Permit Alteration
Permit Number: 44277
Coastal Plains LFGTE Facility
Alvin, Galveston County
Regulated Entity Number: RN102496130
Customer Reference Number: CN601281835
Account Number: GB-0568-G
Associated Permit Numbers: N031 and PSDTX972

Dear Mr. Ryan:

This is in response to your letter received August 15, 2011, requesting alteration of the conditions and maximum allowable emission rates table (MAERT) of the above-referenced permit. We understand that you have not constructed two of the engines authorized by this permit and want to remove them.

As indicated in Title 30 Texas Administrative Code § 116.116(c) [30 TAC § 116.116(c)], and based on our review, Permit Number 44277 is altered. Enclosed are the altered permit conditions and MAERT to replace those currently attached to your permit. Please attach these to your permit.

No planned maintenance, startup, and shutdown emissions have been reviewed or represented in this application and none are authorized by this permit.

As of July 1, 2008, all analytical data generated by a mobile or stationary laboratory in support of compliance with air permits must be obtained from a NELAC (National Environmental Laboratory Accreditation Conference) accredited laboratory under the Texas Laboratory Accreditation Program or meet one of several exemptions. Specific information concerning which laboratories must be accredited and which are exempt may be found in 30 TAC § 25.4 and § 25.6.

Mr. Martin L Ryan
Page 2
September 26, 2011

Re: Permit Number: 44277

For additional information regarding the laboratory accreditation program and a list of accredited laboratories and their fields of accreditation, please see the following Web site:

www.tceq.texas.gov/compliance/compliance_support/qa/env_lab_accreditation.html

For questions regarding the accreditation program, you may contact the Texas Laboratory Accreditation Program at (512) 239-3754 or by e-mail at labprgms@tceq.texas.gov.

Your cooperation in this matter is appreciated. If you need further information or have any questions, please contact Mr. Richard Hughes, P.E. at (512) 239-1554 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality.

Sincerely,



Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

MPW/RH/rh

Enclosure

cc: Director, Office of Environmental Health Program Air & Water Pollution Svc, Galveston
County Health District, La Marque
Air Section Manager, Region 12 - Houston
Air Permits Section Chief, New Source Review, Section (6PD-R), U.S. Environmental
Protection Agency, Region 6, Dallas

Project Number: 169001

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

Emission Limits, Fuel Specifications, and Work Practices

1. This permit covers only the four Jenbacher, Model JGS 616 GS-L.L, 2,343 brake-horsepower (bHP) landfill gas-fired engines for the generation up to a total of 6.8 megawatts of (nominal rating) electricity which are listed in the attached table entitled A Emission Sources - Maximum Allowable Emission Rates, @ and those sources are limited to the emission limits and other conditions specified in that table. **(9/11)**
2. Fuel fired in the engines is limited to landfill gas containing no more than 11.9 grains hydrogen sulfide (H₂S) and 13.2 grains total sulfur per 100 dry standard cubic feet. Fuel shall be sampled quarterly for H₂S and total sulfur content. The use of any other fuel will require an amendment to this permit. **(9/11)**
3. Emission rates of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from the Engines (Emission Point Nos. E-1, E-2, E-3, and E-4) shall be reported in brake specific units of gram per horsepower-hour (g/hp-hr) and in units of pounds per hour. **(9/11)**
 - A. The g/hp-hr limits shall not exceed the following:
 - (1) NO_x, 0.6 g/hp-hr
 - (2) CO, 3.0 g/hp-hr
 - (3) VOC, 0.28 g/hp-hr
 - B. The g/hp-hr limits for NO_x and VOC listed above, along with the hourly and annual emission rate limits referenced in attached maximum allowable emission rates table (MAERT), represent the lowest achievable emission rate and are applicable under all engine load conditions.
 - C. The g/hp-hr limits for CO listed above, along with the hourly and annual emission rate limits referenced in attached MAERT, represent the best available control technology and are applicable under all engine load conditions.
4. Opacity of emissions from the facility shall not exceed 5 percent averaged over a six-minute period.

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

Page 2

- A. The determination of opacity shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point(s). Up to three emissions points may be read concurrently, provided that all three emissions points are within a 70 degree viewing sector or angle in front of the observer such that the proper sun position (at the observer's back) can be maintained for all three emission points. Contributions from uncombined water shall not be included in determining compliance with this special condition. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours for that emission point using Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Direct opacity determination by Test Method 9 may also be used *in lieu* of the visible emission determination. **(9/11)**
- B. Observations shall be performed and recorded by the holder of this permit at least quarterly to demonstrate compliance with this special condition. If the opacity exceeds 5 percent, corrective active to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation. **(9/11)**
5. The holder of this permit shall identify all equipment at the site that has the potential of emitting air contaminants. Permitted emission points shall be identified by the emission point numbering on the maximum allowable emission rates table (MAERT); grandfathered or exempt facilities shall be identified by the emission point numbering used in the most recent emissions inventory submitted to the Texas Commission on Environmental Quality (TCEQ).

INITIAL DETERMINATION OF COMPLIANCE

6. The holder of this permit shall perform stack testing to establish the actual pattern and quantities of air contaminants being emitted from one of the engines. The holder of this permit shall provide test facilities and conduct test operations at his expense. Gaseous sampling ports and sampling platforms shall be incorporated into the design of the engine stack per specifications in the attachment entitled Chapter 2, Stack Sampling Facilities of the TCEQ Sampling Procedures Manual. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.
 - A. The TCEQ Houston Regional Office shall be contacted as soon as testing is scheduled but not less than 45 days prior to sampling to schedule a pretest meeting.

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

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- (1) The notice shall include:
 - (a) Date for pretest meeting.
 - (b) Date sampling will occur.
 - (c) Name of firm conducting sampling.
 - (d) Type of sampling equipment to be used.
 - (e) Method or procedure to be used in sampling.
 - (f) Method or procedure used to determine engine load.
 - (2) The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.
 - (3) A written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures. Requests to waive testing for any pollutant specified in Section B of this condition shall be submitted to the TCEQ Air Permits Division in Austin.
- B. Air contaminants emitted from the engine to be tested for include (but are not limited to) NO_x, CO, and oxygen (O₂). The VOC shall be tested in accordance with 40 CFR Part 60, Subpart WWW - Standards of Performance for Municipal Waste Landfills. Emissions shall be determined by appropriate EPA methods or other methods approved by the TCEQ Houston Regional Director prior to sampling.
- C. Emissions of NO_x and CO shall be sampled at three points in the normal operating range including the upper and lower ends of full engine load range. For each test, the following engine operating parameters shall be clearly described in the sampling report: air-fuel ratio, exhaust O₂ content, percent water in the exhaust, engine speed, and horsepower.
- D. For test purposes only, the holder of this permit may operate the engine outside its proposed operating range during the initial performance test solely for the purpose of determining the compliance operating range of the engine. Exceedance of emission limits during initial performance testing will not be considered a violation of the permit.

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

Page 4

- E. Sampling shall be performed within 90 days after initial start-up of the engine and at such other times as required by the Executive Director of the TCEQ or the Houston Regional Director. Requests for additional time to perform sampling shall be submitted to the TCEQ Houston Regional Office.
- F. Two copies of the final sampling report shall be forwarded to the TCEQ within 45 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the TCEQ Houston Regional Office.
 - One copy to the TCEQ Air Permits Division in Austin.

CONTINUOUS DETERMINATION OF COMPLIANCE

- 7. In order to demonstrate that emission limits specified in Special Condition No. 3 and the MAERT are continuously met, the holder of this permit shall perform the following:
 - A. Conduct evaluations of engine performance every three months (quarterly) at full engine load and speed by measuring the NO_x, CO, and O₂ content of the exhaust. The VOC shall be monitored as non-methane organic compound in accordance with the requirements of 40 CFR Part 60, Subpart WWW - Standards of Performance for Municipal Waste Landfills.
 - B. The use of portable analyzers specifically designed for measuring the concentration of each contaminant in parts per million by volume is acceptable for these evaluations. A hot air probe or equivalent shall be used with portable analyzers to prevent error in results due to high exhaust gas temperatures. Three sets of measurements shall be averaged to determine the concentrations. Prior to and following the measurements, the portable analyzer shall be checked for accuracy using an audit gas that conforms to the specifications in 40 CFR Part 60, Appendix F, 5.1.2(3). Any other method approved by the TCEQ Houston Regional Director is also acceptable.
 - C. Emissions shall be measured and recorded in the as-found operating condition, except no compliance determination shall be established during start-up, shutdown, or under breakdown conditions.

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

Page 5

RECORDKEEPING

8. The following written records shall be made and maintained by the holder of this permit on a five-year rolling retention basis and shall be made immediately available upon request to designated representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction. **(9/11)**
 - A. The results of all stack tests required in Special Conditions Nos. 6 and 7. A copy of all reports required by Special Condition No. 9 shall be permanently kept on file.
 - B. Date and description of any engine maintenance.
 - C. Quarterly records of fuel usage, H₂S, and total sulfur content.
 - D. Records of the visible emissions observations and opacity observations performed in accordance with Special Condition No. 4. **(9/11)**

REPORTING

9. The holder of this permit shall submit to the TCEQ Houston Regional Office, quarterly reports, no later than 45 days of the end of the quarter, containing the following:
 - A. Results of quarterly tests required in Special Condition No. 7.
 - B. In addition to requirements under Title 30 Texas Administrative Code ' ' 101.201 and 101.211 a summary of the periods of emission limit exceedance.
 - C. When no excess emissions or air pollution control equipment failures or adjustments have occurred, such information shall be stated in the report.

AS-BUILT INFORMATION

10. The holder of this permit shall forward to the staff of the TCEQ more detailed engineering data on the engine generator sets as it becomes available. This information shall include (but is not limited to):

SPECIAL CONDITIONS

Permit Numbers 44277, PSD-TX 972, and N-031

Page 6

- A. Specific emissions rates (as applicable) not to exceed current permit allowable rates, revised to reflect vendor data. Increases in allowable emission rates will require permit amendment and modification.
- B. Updated calculations and basis of calculations for emission rates (as applicable).
- C. Updated TCEQ tables with specific data such as manufacturer, make, model, serial number, and physical characteristics, emissions data, cooling tower vendor data, and emission guarantees.
- D. Revised plot plans and equipment drawings as required to reflect the as-built facility.

Dated September 26, 2011

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 44277, PSDTX972, and N-031

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

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E-1	Engine/Genset No. 1	CO	15.50	--
		NO _x	3.10	--
		VOC	0.83	--
		PM ₁₀	0.49	--
		SO ₂	1.27	--
		HCl	0.14	--
E-2	Engine/Genset No. 2	CO	15.50	--
		NO _x	3.10	--
		VOC	0.83	--
		PM ₁₀	0.49	--
		SO ₂	1.27	--
		HCl	0.14	--
E-3	Engine/Genset No. 3	CO	15.50	--
		NO _x	3.10	--
		VOC	0.83	--
		PM ₁₀	0.49	--
		SO ₂	1.27	--
		HCl	0.14	--

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
E-4	Engine/Genset No. 4	CO	15.50	--
		NO _x	3.10	--
		VOC	0.83	--
		PM ₁₀	0.49	--
		SO ₂	1.27	--
		HCl	0.14	--
E-1, E-2, E-3, and E-4	Engine/Gensets Nos. 1-4	CO	--	271.56
		NO _x	--	54.31
		VOC	--	14.54
		PM ₁₀	--	8.59
		SO ₂	--	22.25
		HCl	--	2.45

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
CO - carbon monoxide
SO₂ - sulfur dioxide
HCl - hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

Date: September 26, 2011