LONGFELLOW POWER LLC

ROCK HOUSE DRAW GENERATING STATION
PECOS COUNTY, TEXAS

REGISTRATION FOR STANDARD PERMIT ELECTRICAL GENERATION UNITS
§116.601-116.615

SEPTEMBER 2025

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TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.)*

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 606269777		**RN**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer:	☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:

12. Number of Employees	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator ☐ Other:

☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:							
	City		**State**		**ZIP**	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
( ) -		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Rock House Draw Generating Station

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**		**ZIP**		**ZIP + 4**	
24. County	Pecos County							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	From Fort Stockton, head south on N Alamo St/US Hwy 285 S for 26.7mi. Turn left onto Puckett Rd and go 2.3 mi. Turn right and go 0.2 mi to site on the left.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Fort Stockton			TX	79773	

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	32'	32.99"	102	34'	29.82"

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4911		221112	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Electric Power Generation

34. Mailing Address:	**8115 Preston Road, Suite 800**							
	City	**Dallas**	**State**	**TX**	**ZIP**	**75225**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(405) 343-1108		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Stephanie Willis	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(214 **)** 293-7374		**( )** -	stephanie.willis@altamira-us.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Longfellow Power, LLC	**Job Title:**	Managing Director
Name *(In Print):*	Matt McCann	**Phone:**	**(** 405 **)** 343- **1108**
Signature:		**Date:**	

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Registrations for Air Standard Permit
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I. Registrant Information
A. Company or Other Legal Customer Name:
Longfellow Power LLC
B. Company Official Contact Information (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:)_____
Name: Matt McCann
Title: Managing Director
Mailing Address: 8115 Preston Road, Suite 800
City: Dallas
State: Texas
ZIP Code: 75225
Telephone No.: 405-343-1108
Fax No.: None
Email Address: matt.mccann@longfellowranch.com
All permit correspondence will be sent via email.
C. Technical Contact Information (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Other:)_____
Name: Stephanie Willis
Title: Project Manager
Company Name: Altamira-US, LLC
Mailing Address: 4950 N O'Connor Rd. Suite 104
City: Irving
State: TX
ZIP Code: 75062
Telephone No.: 214-293-7374
Fax No.:
Email Address: Stephanie.Willis@altamira-us.com
II. Facility and Site Information
A. Name and Type of Facility
Facility Name: Rock House Draw Generating Station
Type of Facility: ☒ Permanent ☐ Temporary

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II. Facility and Site Information *(continued)*
For portable units, please provide the serial number of the equipment being authorized below.
Serial No(s):
B. Facility Location Information
Street Address:
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).
From Fort Stockton, head south on N Alamo St/US Hwy 285 S for 26.7mi. Turn left onto Puckett Rd and go 2.3 mi.
Turn right and go 0.2 mi to site on the left.
City: Fort Stockton
County: Pecos
ZIP Code: 79773
C. Core Data Form (**required** for Standard Permits 6006, 6007, and 6013).
Is the Core Data Form (TCEQ Form 10400) attached? ☒ Yes ☐ No
Customer Reference Number (CN): CN606269777
Regulated Entity Number (RN):
D. TCEQ Account Identification Number (if known):
E. Type of Action
☒ Initial Application ☐ Change to Registration ☐ Renewal ☐ Renewal Certification
For Change to Registration, Renewal, or Renewal Certification actions provide the following:
Registration Number:
Expiration Date:
F. Standard Permit Claimed: 6005
G. Previous Standard Exemption or PBR Registration Number: N/A
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR? ☐ Yes ☒ No
If "Yes," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.
N/A

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II. Facility and Site Information *(continued)*
H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit? ☐ Yes ☒ No
If "Yes," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s) and Effective Date(s)
N/A
I. Other Air Preconstruction Permits
Are there any other air preconstruction permits at this site? ☐ Yes ☒ No
If "Yes," enter permit number(s) in the spaces provided below.
N/A
J. Affected Air Preconstruction Permits
Does the standard permit directly affect any permitted facility? ☐ Yes ☒ No
If "Yes," enter permit number(s) in the spaces provided below.
N/A
K. Federal Operating Permit (FOP) Requirements
Is this facility located at a site that is required to obtain a FOP pursuant to 30 TAC Chapter 122? ☐ Yes ☒ No ☐ To Be Determined
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved (*check all that apply).*
☐ Initial Application for a FOP ☐ Significant Revision for a SOP ☐ Minor Revision for a SOP
☐ Operational Flexibility/Off Permit Notification for a SOP ☐ Revision for a GOP
☐ To be Determined ☒ None
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. *(check all that apply)*
☐ SOP ☐ GOP ☐ GOP application/revision (submitted or under APD review) ☒ N/A
☐ SOP application/revision (submitted or under APD review)

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III.	**Fee Information** ***(go to www.tceq.texas.gov/epay to pay online)***
A.	Fee Amount: $900
B.	Voucher number from ePay:
IV.	**Public Notice** *(if applicable)*
A.	Responsible Person (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other:)_____
Name:	
Title:	
Company:	
Mailing Address:	
City:	
State:	
ZIP Code:	
Telephone No.:	
Fax No.:	
Email Address:	
B.	Technical Contact (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Other):_____
Name:	
Title:	
Company:	
Mailing Address:	
City:	
State:	
ZIP Code:	
Telephone No.:	
Fax No.:	
Email Address:	
C.	Bilingual Notice
Is a bilingual program required by the Texas Education Code in the School District?	☐ Yes ☐ No
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?	☐ Yes ☐ No

IV.	**Public Notice *(continued)*** *(if applicable) (continued)*	
If "Yes," list which language(s) are required by the bilingual program below?		
D.	Small Business Classification and Alternate Public Notice	
Does this company (including parent companies and subsidiary companies) have fewer than 100 employees or less than $6 million in annual gross receipts?		☐ Yes ☐ No
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program?		☐ Yes ☐ No
Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy?		☐ Yes ☐ No
Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy?		☐ Yes ☐ No
V.	**Renewal Certification Option**	
A.	Does the permitted facility emit an air contaminant on the Air Pollutant Watch List, and is the permitted facility located in an area on the watch list?	☐ Yes ☐ No
B.	For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)?	☐ Yes ☐ No
C.	Does the company and/or site have an unsatisfactory compliance history?	☐ Yes ☐ No
D.	Are there any applications currently under review for this standard permit registration?	☐ Yes ☐ No
E.	Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time?	☐ Yes ☐ No
F.	Are any of the following actions being requested at the time of renewal:	☐ Yes ☐ No
1.	Are there any facilities that have been permanently shutdown that are proposed to be removed from the standard permit registration?	☐ Yes ☐ No
2.	Do changes need to be made to the standard permit registration in order to remain in compliance?	☐ Yes ☐ No
3.	Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal?	☐ Yes ☐ No
4.	Are there any changes to the current emission rates table being proposed?	☐ Yes ☐ No
*Note: If answers to all of the questions in Section V. Renewal Certification Option are "No," use the certification option and skip to Section VII. of this form. If the answers to any of the questions in Section V. Renewal Certification Option are "Yes," the certification option **cannot** be used.*		
*If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.		

VI. Technical Information Including State and Federal Regulatory Requirements	
Place a check next to the appropriate box to indicate what you have included in your submittal. *Note: Any technical or essential information needed to confirm that facilities are meeting the requirements of the standard permit must be provided. Not providing key information could result in an automatic deficiency and voiding of the project*.	
A. Standard Permit requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)	
Did you demonstrate that the general requirements in 30 TAC Sections 116.610 and 116.615 are met?	☒ Yes ☐ No
Did you demonstrate that the individual requirements of the specific standard permit are met?	☒ Yes ☐ No
B. Confidential Information (All pages properly marked "CONFIDENTIAL").	☐ Yes ☒ No
C. Process Flow Diagram.	☒ Yes ☐ No
D. Process Description.	☒ Yes ☐ No
E. Maximum Emissions Data and Calculations.	☒ Yes ☐ No
F. Plot Plan.	☒ Yes ☐ No
G. Projected Start Of Construction Date, Start Of Operation Date, and Length of Time at Site:	☒ Yes ☐ No
Projected Start of Construction (provide date): 10/01/2025	
Projected Start of Operation (provide date): 12/01/2025	
Length of Time at the Site: Permanent	
VII. Delinquent Fees and Penalties	
This form **will not be processed** until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: www.tceq.texas.gov/agency/financial/fees/delin/index.html.	

VIII. Signature Requirements
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA) the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.
Name (printed): Matt McCann
Signature (original signature required):
Date:
IX. Copies of the Registration
The PI-1S application must be submitted through ePermits. No additional copies need to be sent to the Regional Office or local Air Pollution Control Program(s). The link to ePermits can be found here: www3.tceq.texas.gov/steers/.

1.0 INTRODUCTION

Longfellow Power LLC (Longfellow) plans to construct an electrical generation station known as the Rock House Draw Generating Station (Facility). The facility will be located in Pecos County, Texas. A facility location map is included in Attachment G.

This submittal contains the required forms, figures, and supporting documentation to claim a Standard Permit #6005 registration.

2.0 PROCESS DESCRIPTION

The facility receives pipeline grade natural gas via pipeline. The gas is used to fuel sixteen (16) natural gas-fired generators (GEN1-16) which will be used to provide electric power to on-site equipment.

A process flow diagram is included in Attachment A.

Summary of Emission Sources

Emission sources at the facility are listed and described in the following table.

FIN/EPN:	Point Source Description	Type of Emissions
GEN1-6	Generator Engine, GE TM2500 GEN 8, 44.16-hp (S/N: TBD)	Combustion emissions
GEN7-16	Generator Engine, GE TM2500 PLUS, 41.15-hp (S/N: TBD)	Combustion emissions

3.0 REGULATORY APPLICABILITY

Federal Air Standard	Title	Applicable Source(s)	Justification
NSPS 40 CFR 60, Subpart A	General Provisions	GEN1-16	The generators will be subject to NSPS Subpart KKKK.
NSPS 40 CFR 60, Subpart GG	Standards of Performance for Stationary Gas Turbines	N/A	GEN1-16 were constructed after February 18, 2005 and are therefore not subject to this subpart.
NSPS 40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	N/A	There are no applicable units located at this facility.

Federal Air Standard	Title	Applicable Source(s)	Justification
NSPS 40 CFR 60, Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	GEN1-16	GEN1-16 were constructed after February 18, 2005 and are thus subject to NSPS KKKK requirements according to §60.4305(a). They are subject to the standards in Table 1 of the subpart as established in §60.4320(a) for NOx and §60.4330(a)(1) for SO_2. The corresponding limits for GEN1-12 are as follows: 0.14 lb/MW-hr NOx 0.90 lb/MW-hr SO_2
NSPS 40 CFR 60, Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	N/A	GEN1-16 do not meet the definitions of "steam generating unit," "IGCC," or "stationary combustion turbine." Therefore, this subpart is not applicable.
MACT 40 CFR 63, Subpart A	General Provisions	GEN1-16	Applies if any other subpart applies.
MACT 40 CFR 63, Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	N/A	There are no applicable units located at this facility.

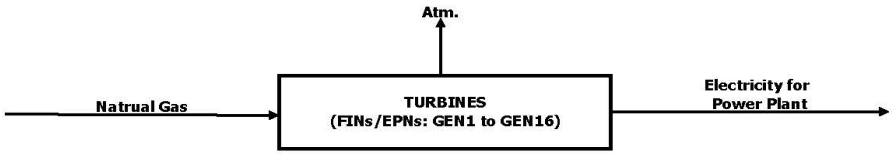
State Air Standard	Title	Applicable Source(s)	Justification
30 TAC §116.610	Standard Permits – Applicability	Facility	The facility produces emissions of greater than 25 tpy of VOCs and is not able to be registered under a Permit by Rule. Specific details regarding the applicability of each individual requirement of §116.610 are discussed in Attachment E.
30 TAC §116.615	Standard Permits – General Conditions	Facility	The facility produces emissions of greater than 25 tpy of VOCs and is not able to be registered under a Permit by Rule. Specific details regarding adherence to the general conditions of §116.615 are discussed in Attachment E.
Texas Health and Safety Code 382.05195	Non-Rule Standard Permit	N/A	The facility qualifies for a Standard Permit under §116.620 and is not subject to the requirements of this regulation.
30 TAC §111	Control of Air Pollution from Visible Emissions and Particulate Matter	GEN1-16	All stationary vents located at the facility do not exceed visible emission opacity limits of 20% over a six-minute period. Additionally, Total Suspended Particulate (TSP) emissions do not exceed 3.5 lb/hr as listed in §111.151 Table 1.

State Air Standard	Title	Applicable Source(s)	Justification
30 TAC §112 Subchapter A	Control of Air Pollution from Sulfur Compounds – Sulfur Dioxide	N/A	Pursuant to §112.4, (1) the facility meets all applicable federal new source performance standards, (2) the permit application demonstrates that the facility does not cause or contribute to a condition in which either primary or secondary sulfur dioxide NAAQS are exceeded, and (3) the facility is in compliance with §112.19.
30 TAC §112 Subchapter B	Control of Air Pollution from Sulfur Compounds – Hydrogen Sulfide	N/A	The net ground level concentration of H_2S does not exceed 0.08 ppm average over any 30- minute period if downwind concentration of H2S affects a property used for residential, business, or commercial purpose or 0.12 ppm averaged over any 30-minute period if the downwind concentration is used for industrial purposes.
30 TAC §114	Control of Air Pollution from Motor Vehicles	N/A	The generator engines will be attached to a foundation and located at the facility for longer than 12 consecutive months and are therefore exempt from this Chapter
30 TAC §117	Control of Air Pollution from Nitrogen Compounds	N/A	The facility is neither a major source nor is it located in an ozone non-attainment region; therefore, it is exempt from this Chapter.
30 TAC §122	Federal Operating Permits Program	N/A	The facility is not designated as a major source; therefore, it is exempt from the Federal Operating Permits Program.

ATTACHMENT A

PROCESS FLOW DIAGRAM

LONGFELLOW POWER LLC
ROCK HOUSE DRAW GENERATING STATION, PECOS COUNTY



ALTAMIRA 525 CENTRAL PARK DR. SUITE 500 OKLAHOMA CITY, OK 73105 www.altamira-us.com	FIGURE TITLE ***PROCESS FLOW DIAGRAM***	DATE SCALE: AS SHOWN DESIGNED BY: AD APPROVED BY: SW DRAWN BY: AD
	DOCUMENT TITLE STANDARD PERMIT	
	CLIENT LONGFELLOW POWER, LLC	PROJECT NUMBER LFEANM2201
	LOCATION ROCK HOUSE DRAW GENERATING STATION PECOS COUNTY, TEXAS	FIGURE NUMBER Attachment A

ATTACHMENT B

SUMMARY OF EMISSIONS

Longfellow Power, LLC
Rock House Draw Generating Station
CN606269777

Emission Summary
Controlled Criteria Pollutants & HAPs

FIN	Source Description	Nitrogen Oxides		Carbon Monoxide		Volatile Organic Compounds		Sulfur Oxides		Particulate Matter	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
GEN1	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN2	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN3	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN4	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN5	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN6	GE TM2500 GEN 8 Generator Engine	0.50	2.21	0.70	3.09	0.70	3.09	1.14	5.00	2.21	9.70
GEN7	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN8	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN9	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN10	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN11	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN12	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN13	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN14	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN15	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
GEN16	GE TM2500 PLUS Generator Engine	0.43	1.90	1.65	7.23	0.60	2.65	0.98	4.28	1.90	8.32
Total Facility Annual Emissions		**7.36**	**32.25**	**20.74**	**90.85**	**10.27**	**44.98**	**16.63**	**72.82**	**32.27**	**141.36**

Longfellow Power, LLC
Rock House Draw Generating Station
CN606269777

Emission Summary
Controlled Criteria Pollutants & HAPs

FIN	Source Description	Formaldehyde		Benzene		Toluene		Acetaldehyde		Acrolein		TOTAL HAPs/TAPs	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
GEN1	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN2	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN3	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN4	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN5	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN6	GE TM2500 GEN 8 Generator Engine	0.17	0.74	0.004	0.02	0.04	0.19	0.01	0.06	0.00	0.01	0.23	1.01
GEN7	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN8	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN9	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN10	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN11	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN12	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN13	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN14	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN15	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
GEN16	GE TM2500 PLUS Generator Engine	0.14	0.63	0.003	0.02	0.04	0.16	0.01	0.05	0.00	0.01	0.20	0.87
Total Facility Annual Emissions		**2.45**	**10.72**	**0.06**	**0.26**	**0.64**	**2.78**	**0.20**	**0.86**	**0.03**	**0.14**	**3.37**	**14.76**

ATTACHMENT C

EMISSIONS CALCULATIONS

Longfellow Power, LLC
Rock House Draw Generating Station

Engine Emission Calculations

Source ID:	GEN1-6
Service Type:	Generator Engine

Engine Emission Summary

Component	Pre-Control		Post-Control	
	lb/hr	tpy	lb/hr	tpy
NOx	5.04	22.07	0.50	2.21
CO	10.06	44.08	0.70	3.09
VOC	0.70	3.09	0.70	3.09
Formaldehyde	0.24	1.04	0.17	0.74
Acetaldehyde	0.01	0.06	0.01	0.06
PM10/PM2.5	2.21	9.70	2.21	9.70
SO2	1.14	5.00	1.14	5.00
Benzene	0.004	0.02	0.004	0.02
Toluene	0.04	0.19	0.04	0.19
Acrolein	0.002	0.01	0.002	0.01

Supplemental Information

Component	GEN1-6
Make	GE
Model	TM2500 GEN 8
HP	48,277
Serial Number	TBD
Type	
Fuel Type	Natural Gas
Mfg or Mod. Date	Post-1/1/2011
Modified?	No

Engine Operation Information

Component		GEN1-6
Hours/Year		8,760
Fuel Heat Value	Btu/scf	1,020
Fuel Consumption	Btu/hp-hr	6,948
	mmbtuh	335.45
	mmbtuy	2,938,524
	scf/hr	328,870.59
	mmscf/yr	2,880.91

Engine Calculation Summary

Component		GEN1-6 Pre-Control	GEN1-6 Post-Control
NOx	KKKK Limit	N/A	
	Catalyst Efficiency	90%	
	g/hp*hr	0.05	0.005
	lb/mmbtu	-	-
	lb/hr	5.04	0.50
	tpy	22.07	2.21
CO	KKKK Limit	N/A	
	Catalyst Efficiency	93%	
	g/hp*hr		
	lb/mmbtu	0.03	0.0021
	lb/hr	10.06	0.70
	tpy	44.08	3.09
VOC (including Formaldehyde)	KKKK Limit	N/A	
	Catalyst Efficiency		
	g/hp*hr		
	lb/mmbtu	0.0021	0.0021
	lb/hr	0.70	0.70
	tpy	3.09	3.09

Component		GEN1-6 Pre-Control	GEN1-6 Post-Control
Formaldehyde	Catalyst Efficiency	29.5%	
	g/hp*hr		
	lb/mmbtu	0.00071	0.00050055
	lb/hr	0.24	0.17
	tpy	1.04	0.74
PM10/PM2.5	lb/mmbtu	0.0066	
	-	-	-
	lb/hr	2.21	2.21
	tpy	9.70	9.70
SO2	lb/mmbtu	0.0034	
	lb/hr	1.14	1.14
	tpy	5.00	5.00
Benzene	lb/mmbtu	0.000012	
	lb/hr	4.03E-03	4.03E-03
	tpy	0.02	0.02
Toluene	lb/mmbtu	0.00013	
	lb/hr	0.04	0.04
	tpy	0.19	0.19
Acetaldehyde	lb/mmbtu	0.00004	
	Catalyst Efficiency		
	lb/hr	0.01	0.01
	tpy	0.06	0.06
Acrolein	lb/mmbtu	0.0000064	
	Catalyst Efficiency		
	lb/hr	2.15E-03	2.15E-03
	tpy	0.01	0.01

Notes:

(1) Emission factors for NOx and CO were determined using AP-42 Table 3.1-1, Natural Gas-Fired Turbines with water-steam injection.

(2) Emission factors for VOC, PM (Condensable & Filterable), SO2, benzene, and toluene were determined using AP-42 Tables 3.1-2a and 3.1-3.

*(3) Formaldehyde is included in the VOC emission calculations; however, the g/hp*hr value reflects VOC without formaldehyde.*

(4) Formaldehyde emissions are based on manufacturer's data.

Longfellow Power, LLC
Rock House Draw Generating Station

Engine Emission Calculations

Source ID:	GEN7-16
Service Type:	Generator Engine

Engine Emission Summary

Component	Pre-Control		Post-Control	
	lb/hr	tpy	lb/hr	tpy
NOx	4.34	19.00	0.43	1.90
CO	23.59	103.34	1.65	7.23
VOC	0.60	2.65	0.60	2.65
Formaldehyde	0.20	0.89	0.14	0.63
Acetaldehyde	0.01	0.05	0.01	0.05
PM10/PM2.5	1.90	8.32	1.90	8.32
SO2	0.98	4.28	0.98	4.28
Benzene	0.003	0.02	0.003	0.02
Toluene	0.04	0.16	0.04	0.16
Acrolein	0.002	0.01	0.002	0.01

Supplemental Information

Component	GEN7-16
Make	GE
Model	TM2500 PLUS
HP	41,556
Serial Number	TBD
Type	
Fuel Type	Natural Gas
Mfg or Mod. Date	Post-1/1/2011
Modified?	No

Engine Operation Information

Component		GEN7-16
Hours/Year		8,760
Fuel Heat Value	Btu/scf	1,020
Fuel Consumption	Btu/hp-hr	6,924
	mmbtuh	287.72
	mmbtuy	2,520,459
	scf/hr	282,081.94
	mmscf/yr	2,471.04

Engine Calculation Summary

Component		GEN7-16	
		Pre-Control	Post-Control
NOx	KKKK Limit	N/A	
	Catalyst Efficiency	90%	
	g/hp*hr	0.05	0.005
	lb/mmbtu	-	-
	lb/hr	4.34	0.43
	tpy	19.00	1.90
CO	KKKK Limit	N/A	
	Catalyst Efficiency	93.0%	
	g/hp*hr		
	lb/mmbtu	0.082	0.00574
	lb/hr	23.59	1.65
	tpy	103.34	7.23
VOC (including Formaldehyde)	KKKK Limit	N/A	
	Catalyst Efficiency		
	g/hp*hr		
	lb/mmbtu	0.0021	0.0021
	lb/hr	0.60	0.60
	tpy	2.65	2.65

Component		GEN7-16	
		Pre-Control	Post-Control
Formaldehyde	Catalyst Efficiency	29.5%	
	g/hp*hr		
	lb/mmbtu	0.00071	0.00050055
	lb/hr	0.20	0.14
	tpy	0.89	0.63
PM10/PM2.5	lb/mmbtu	0.0066	
	-	-	-
	lb/hr	1.90	1.90
	tpy	8.32	8.32
SO2	lb/mmbtu	0.0034	
	lb/hr	0.98	0.98
	tpy	4.28	4.28
Benzene	lb/mmbtu	0.000012	
	lb/hr	0.00	0.00
	tpy	0.02	0.02
Toluene	lb/mmbtu	0.00013	
	lb/hr	0.04	0.04
	tpy	0.16	0.16
Acetaldehyde	lb/mmbtu	0.00004	
	Catalyst Efficiency		
	lb/hr	0.01	0.01
	tpy	0.05	0.05
Acrolein	lb/mmbtu	0.0000064	
	Catalyst Efficiency		
	lb/hr	1.84E-03	1.84E-03
	tpy	0.01	0.01

Notes:

(1) Emission factors for NOx and CO were determined using AP-42 Table 3.1-1, Natural Gas-Fired Turbines with water-steam injection.

(2) Emission factors for VOC, PM (Condensable & Filterable), SO2, benzene, and toluene were determined using AP-42 Tables 3.1-2a and 3.1-3.

*(3) Formaldehyde is included in the VOC emission calculations; however, the g/hp*hr value reflects VOC without formaldehyde.*

(4) Formaldehyde emissions are based on manufacturer's data.

Longfellow Power, LLC
Rock House Draw Generating Station

Engine Example Calculations

Emission factors for NOx in the form of g/hp*hr:

$$NOx\ (lb/hr) = \frac{0\ \text{grams NOx}}{\text{hp*hour}} \times \frac{\text{lb}}{453.6\ \text{grams}} \times 48276.72\ \text{hp} = \frac{0.50\ \text{lb}}{\text{hour}}$$

$$NOx\ (tpy) = \frac{0.50\ \text{lb}}{\text{hour}} \times \frac{4000\text{hours}}{\text{year}} \times \frac{\text{ton}}{2000\ \text{lbs}} = 2.21\ \text{tpy of NOx}$$

Emission factors for CO in the form of g/hp*hr:

$$CO\ (lb/hr) = \frac{0\ \text{grams CO}}{\text{hp*hour}} \times \frac{\text{lb}}{453.6\ \text{grams}} \times 48276.72\ \text{hp} = \frac{0.70\ \text{lb}}{\text{hour}}$$

$$CO\ (tpy) = \frac{0.70\ \text{lb}}{\text{hour}} \times \frac{4000\ \text{hours}}{\text{year}} \times \frac{\text{ton}}{2000\ \text{lbs}} = 3.09\ \text{tpy of CO}$$

Emission factors for VOC in the form of g/hp*hr:

$$VOC\ (lb/hr) = \frac{0\ \text{grams VOC}}{\text{hp*hour}} \times \frac{\text{lb}}{453.6\ \text{grams}} \times 48276.72\ \text{hp} + \frac{0.18\ \text{lbs of HCOH}}{\text{hour}} = \frac{0.70\ \text{lb}}{\text{hour}}$$

$$VOC\ (tpy) = \frac{0.70\ \text{lb}}{\text{hour}} \times \frac{4000\ \text{hours}}{\text{year}} \times \frac{\text{ton}}{2000\ \text{lbs}} = 3.09\ \text{tpy of VOC}$$

Emission factors in the form of lb/mmbtu:

$$PM\ 2.5\ (lb/hr) = \frac{6948\ \text{Btu}}{\text{hp*hour}} \times 48276.72\ \text{hp} \times \frac{1\ \text{MMBtu}}{1000000\ \text{Btu}} \times \frac{6.60\text{E-}03\ \text{lb PM 2.5}}{\text{MMBtu}} = \frac{2.21\ \text{lb}}{\text{hour}}$$

$$PM\ 2.5\ (tpy) = \frac{2.21\ \text{lb}}{\text{hour}} \times \frac{4000\ \text{hours}}{\text{year}} \times \frac{\text{ton}}{2000\ \text{lbs}} = 9.70\ \text{tpy PM 2.5}$$

ATTACHMENT D

NAAQS

Longfellow Power, LLC
Rock House Draw Generating Station

Screen 3 Modeling Conversion Program

Calculated Values

EPN	SOURCE DESCRIPTION	SOURCE TYPE	EMISSION RATE			STACK HEIGHT		STACK INSIDE DIAMETER		EXIT VELOCITY OR FLOW RATE	VF =	STACK GAS EXIT TEMPERATURE		AMBIENT AIR TEMPERATURE		FLARE HEAT RELEASE RATE	
		OPTION	NO2/NOx Ratio	LB/HR	GM/SEC	FEET	METERS	FEET	METERS	OPTION	ACFM	DEG F	K	DEG F	K	MMBtu/hr	cal/s
GEN1	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN2	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN3	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN4	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN5	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN6	GE TM2500 GEN 8	P	0.40	0.20	0.025	72.00	21.95	9.00	2.743	3	62863	926.00	769.82	68.00	293.15	-	-
GEN7	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN8	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN9	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN10	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN11	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN12	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN13	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN14	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN15	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-
GEN16	GE TM2500 PLUS	P	0.40	0.17	0.022	72.00	21.95	9.00	2.743	3	62863	983.00	801.48	68.00	293.15	-	-

EPN	RECEPTOR HEIGHT ABOVE GROUND		URBAN/ RURAL	BUILDING DOWNWASH	COMPLEX TERRAIN	SIMPLE TERRAIN	METEOROLOGY	AUTOMATED DISTANCE ARRAY	TERRAIN HEIGHT ABOVE STACK BASE		MIN AND MAX DISTANCES				MAX CONC.
	FEET	METERS	U/R	Y/N	Y/N	Y/N	1/2/3	Y/N	FEET	METERS	FEET	METERS	FEET	METERS	µg/m3
GEN1	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN2	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN3	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN4	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN5	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN6	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.11
GEN7	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN8	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN9	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN10	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN11	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN12	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN13	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN14	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN15	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
GEN16	3.28	1.0	R	N	N	Y	1	Y	0	0.0	66	20	164000	50000	0.10
														Total:	**1.84**

Notes:
(1) Engine NO2/NOx conversion ratio is based on Figure 1: 30 TAC 106.512(6)(A)
(2) Urban or rural dispersion is based on land use and not population density.
(3) Flag pole receptor is not used because there is no receptor above ground level.
(4) Building downwash option not applicable, as no structure in area of review.
(5) Complex terrain option not required because terrain elevation do not exceed stack height.
(6) Automated distance array option is selected.

DEG K = (DEG F -32) * 5/9 + 273.15
1 METER = 3.28084 FEET
1 LB = 453.592 GRAMS

SOURCE TYPE	SOURCE TYPE DESCRIPTION
P	POINT
F	FLARE
A	AREA
V	VOLUME

OPTION	
N	NON-REGULATORY BUT CONSERVATIVE BRODE 2 MIXING HEIGHT OPTION
nn.n	ANEMOMETER HEIGHT OTHER THAN THE REGULATORY (DEFAULT) 10 METER HEIGHT
SS	NON-REGULATORY CAVITY CALCULATION ALTERNATIVE

EXIT VELOCITY OR FLOW RATE	
1	EXIT VELOCITY (M/S)
2	VOLUME FLOW RATE (M**3/S)
3	VOLUME FLOW RATE (ACFM)

METEOROLOGY	
1	FULL METEOROLOGY
2	SINGLE STABILITY CLASS
3	SINGLE STABILITY CLASS AND WIND SPEED

Figure 1: 30 TAC 106.512(6)(A)
NO_x Emission Rate (Q)

Device	g/hp-hr	NO_2/NO_x Ratio
IC Engine	Less than 2.0	0.4
IC Engine	2.0 thru 10.0	0.15 + (0.5/Q)
IC Engine	Greater than 10.0	0.2
Turbines		0.25
IC Engine with catalyticconverter		0.85

Longfellow Power, LLC
Rock House Draw Generating Station

NO_2 NAAQS Compliance Demonstration

County:	Pecos	

Hourly Results

Modeled Screen 3 Max Concentration	1.84	$\mu g/m^3$
1-Hour Background Concentration	70.00	$\mu g/m^3$
Total Combined NO_2 Concentration	71.84	$\mu g/m^3$
1-Hour NO_2 NAAQS	188	$\mu g/m^3$
Passing?	**Yes**	

Annual Results

Conversion Factor (hourly to annual):	0.08	
Annual Concentration	0.15	$\mu g/m^3$
Annual Background Concentration	70.00	$\mu g/m^3$
Total Combined NO_2 Concentration	70.15	$\mu g/m^3$
Annual NO_2 NAAQS	100	$\mu g/m^3$
Passing?	**Yes**	

09/05/25
11:35:49

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 13043 ***

Rock House Draw Generating Station GEN1-6 NOx

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	0.239400E-01
STACK HEIGHT (M)	=	21.9456
STK INSIDE DIAM (M)	=	2.7432
STK EXIT VELOCITY (M/S)	=	5.0198
STK GAS EXIT TEMP (K)	=	769.8167
AMBIENT AIR TEMP (K)	=	293.1500
RECEPTOR HEIGHT (M)	=	0.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	0.0000
MIN HORIZ BLDG DIM (M)	=	0.0000
MAX HORIZ BLDG DIM (M)	=	0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 57.341 M**4/S**3; MOM. FLUX = 18.052 M**4/S**2.

*** FULL METEOROLOGY ***

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
20.	0.000	1	1.0	1.1	438.9	437.87	13.81	12.67	NO
100.	0.5214E-03	6	1.0	1.5	10000.0	104.31	23.88	23.65	NO
200.	0.1586E-02	3	10.0	10.8	3200.0	56.88	24.27	15.10	NO
300.	0.2900E-01	3	10.0	10.8	3200.0	56.88	35.06	21.60	NO
400.	0.6930E-01	3	10.0	10.8	3200.0	56.88	45.52	27.89	NO
500.	0.9369E-01	4	20.0	22.5	6400.0	34.47	36.48	18.95	NO
600.	0.1042	4	20.0	22.5	6400.0	34.47	43.08	21.93	NO
700.	0.1045	4	20.0	22.5	6400.0	34.47	49.50	24.67	NO
800.	0.1002	4	20.0	22.5	6400.0	34.47	55.85	27.36	NO
900.	0.9431E-01	4	15.0	16.9	4800.0	41.39	62.33	30.39	NO
1000.	0.9085E-01	4	15.0	16.9	4800.0	41.39	68.53	32.94	NO
1100.	0.8579E-01	4	15.0	16.9	4800.0	41.39	74.68	34.93	NO

1200.	0.8073E-01	4	15.0	16.9	4800.0	41.39	80.78	36.85	NO
1300.	0.7585E-01	4	15.0	16.9	4800.0	41.39	86.84	38.72	NO
1400.	0.7209E-01	4	10.0	11.3	3200.0	55.22	93.22	41.39	NO
1500.	0.6977E-01	4	10.0	11.3	3200.0	55.22	99.17	43.14	NO
1600.	0.6734E-01	4	10.0	11.3	3200.0	55.22	105.09	44.85	NO
1700.	0.6486E-01	4	10.0	11.3	3200.0	55.22	110.97	46.53	NO
1800.	0.6239E-01	4	10.0	11.3	3200.0	55.22	116.82	48.17	NO
1900.	0.5996E-01	4	10.0	11.3	3200.0	55.22	122.64	49.79	NO
2000.	0.5761E-01	4	10.0	11.3	3200.0	55.22	128.43	51.38	NO
2100.	0.5555E-01	4	8.0	9.0	2560.0	65.60	134.45	53.60	NO
2200.	0.5397E-01	4	8.0	9.0	2560.0	65.60	140.18	55.12	NO
2300.	0.5239E-01	4	8.0	9.0	2560.0	65.60	145.88	56.62	NO
2400.	0.5083E-01	4	8.0	9.0	2560.0	65.60	151.56	58.10	NO
2500.	0.4930E-01	4	8.0	9.0	2560.0	65.60	157.21	59.56	NO
2600.	0.4799E-01	2	1.0	1.1	438.9	437.87	379.67	333.69	NO
2700.	0.4774E-01	2	1.0	1.1	438.9	437.87	391.32	346.03	NO
2800.	0.4732E-01	2	1.0	1.1	438.9	437.87	402.94	358.49	NO
2900.	0.4677E-01	2	1.0	1.1	438.9	437.87	414.54	371.04	NO
3000.	0.4611E-01	2	1.0	1.1	438.9	437.87	426.12	383.68	NO
3500.	0.4599E-01	5	1.0	1.3	10000.0	126.54	161.54	54.95	NO
4000.	0.5105E-01	5	1.0	1.3	10000.0	126.54	181.53	58.05	NO
4500.	0.5389E-01	5	1.0	1.3	10000.0	126.54	201.31	60.69	NO
5000.	0.5591E-01	5	1.0	1.3	10000.0	126.54	220.89	63.22	NO
5500.	0.5726E-01	5	1.0	1.3	10000.0	126.54	240.28	65.65	NO
6000.	0.5807E-01	5	1.0	1.3	10000.0	126.54	259.50	68.00	NO
6500.	0.5845E-01	5	1.0	1.3	10000.0	126.54	278.55	70.27	NO
7000.	0.5848E-01	5	1.0	1.3	10000.0	126.54	297.44	72.48	NO
7500.	0.5825E-01	5	1.0	1.3	10000.0	126.54	316.19	74.62	NO
8000.	0.5780E-01	5	1.0	1.3	10000.0	126.54	334.80	76.70	NO
8500.	0.5719E-01	5	1.0	1.3	10000.0	126.54	353.29	78.73	NO
9000.	0.5645E-01	5	1.0	1.3	10000.0	126.54	371.65	80.71	NO
9500.	0.5563E-01	5	1.0	1.3	10000.0	126.54	389.89	82.64	NO
10000.	0.5473E-01	5	1.0	1.3	10000.0	126.54	408.02	84.53	NO
15000.	0.4629E-01	6	1.0	1.5	10000.0	104.31	389.14	59.72	NO
20000.	0.4158E-01	6	1.0	1.5	10000.0	104.31	501.50	64.72	NO
25000.	0.3746E-01	6	1.0	1.5	10000.0	104.31	610.20	68.99	NO
30000.	0.3397E-01	6	1.0	1.5	10000.0	104.31	715.97	72.75	NO
40000.	0.2820E-01	6	1.0	1.5	10000.0	104.31	920.52	78.12	NO
50000.	0.2414E-01	6	1.0	1.5	10000.0	104.31	1117.67	82.61	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 20. M:

651.	0.1052	4	20.0	22.5	6400.0	34.47	46.43	23.37	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

****

*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.1052	651.	0.

09/05/25
11:30:54

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 13043 ***

Rock House Draw Generating Station GEN7-16 NOx

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	0.214200E-01
STACK HEIGHT (M)	=	21.9456
STK INSIDE DIAM (M)	=	2.7432
STK EXIT VELOCITY (M/S)	=	4.5913
STK GAS EXIT TEMP (K)	=	801.4833
AMBIENT AIR TEMP (K)	=	293.1500
RECEPTOR HEIGHT (M)	=	0.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	0.0000
MIN HORIZ BLDG DIM (M)	=	0.0000
MAX HORIZ BLDG DIM (M)	=	0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 53.721 M**4/S**3; MOM. FLUX = 14.505 M**4/S**2.

*** FULL METEOROLOGY ***

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
20.	0.000	1	1.0	1.1	425.3	424.32	13.58	12.41	NO
100.	0.4507E-03	5	1.0	1.3	10000.0	124.29	28.88	28.44	NO
200.	0.2002E-02	3	10.0	10.8	3200.0	55.34	24.24	15.05	NO
300.	0.3084E-01	3	10.0	10.8	3200.0	55.34	35.03	21.55	NO
400.	0.6891E-01	3	10.0	10.8	3200.0	55.34	45.48	27.83	NO
500.	0.8968E-01	4	20.0	22.5	6400.0	33.73	36.47	18.92	NO
600.	0.9807E-01	4	20.0	22.5	6400.0	33.73	43.06	21.89	NO
700.	0.9736E-01	4	20.0	22.5	6400.0	33.73	49.48	24.63	NO
800.	0.9270E-01	4	20.0	22.5	6400.0	33.73	55.83	27.32	NO
900.	0.8806E-01	4	15.0	16.9	4800.0	40.40	62.30	30.33	NO
1000.	0.8433E-01	4	15.0	16.9	4800.0	40.40	68.51	32.89	NO
1100.	0.7932E-01	4	15.0	16.9	4800.0	40.40	74.66	34.88	NO

1200.	0.7441E-01	4	15.0	16.9	4800.0	40.40	80.76	36.80	NO
1300.	0.6974E-01	4	10.0	11.3	3200.0	53.74	87.19	39.50	NO
1400.	0.6753E-01	4	10.0	11.3	3200.0	53.74	93.18	41.29	NO
1500.	0.6514E-01	4	10.0	11.3	3200.0	53.74	99.13	43.05	NO
1600.	0.6268E-01	4	10.0	11.3	3200.0	53.74	105.05	44.76	NO
1700.	0.6022E-01	4	10.0	11.3	3200.0	53.74	110.93	46.44	NO
1800.	0.5779E-01	4	10.0	11.3	3200.0	53.74	116.78	48.09	NO
1900.	0.5543E-01	4	10.0	11.3	3200.0	53.74	122.61	49.71	NO
2000.	0.5338E-01	4	8.0	9.0	2560.0	63.75	128.65	51.94	NO
2100.	0.5179E-01	4	8.0	9.0	2560.0	63.75	134.41	53.48	NO
2200.	0.5021E-01	4	8.0	9.0	2560.0	63.75	140.13	55.01	NO
2300.	0.4865E-01	4	8.0	9.0	2560.0	63.75	145.84	56.51	NO
2400.	0.4712E-01	4	8.0	9.0	2560.0	63.75	151.52	57.99	NO
2500.	0.4562E-01	4	8.0	9.0	2560.0	63.75	157.17	59.45	NO
2600.	0.4530E-01	2	1.0	1.1	425.3	424.32	378.48	332.33	NO
2700.	0.4493E-01	2	1.0	1.1	425.3	424.32	390.16	344.72	NO
2800.	0.4441E-01	2	1.0	1.1	425.3	424.32	401.82	357.22	NO
2900.	0.4379E-01	2	1.0	1.1	425.3	424.32	413.45	369.82	NO
3000.	0.4308E-01	2	1.0	1.1	425.3	424.32	425.06	382.50	NO
3500.	0.4404E-01	5	1.0	1.3	10000.0	124.29	161.43	54.60	NO
4000.	0.4868E-01	5	1.0	1.3	10000.0	124.29	181.43	57.72	NO
4500.	0.5122E-01	5	1.0	1.3	10000.0	124.29	201.22	60.37	NO
5000.	0.5297E-01	5	1.0	1.3	10000.0	124.29	220.81	62.92	NO
5500.	0.5409E-01	5	1.0	1.3	10000.0	124.29	240.20	65.36	NO
6000.	0.5471E-01	5	1.0	1.3	10000.0	124.29	259.42	67.72	NO
6500.	0.5493E-01	5	1.0	1.3	10000.0	124.29	278.48	70.00	NO
7000.	0.5484E-01	5	1.0	1.3	10000.0	124.29	297.38	72.22	NO
7500.	0.5450E-01	5	1.0	1.3	10000.0	124.29	316.13	74.36	NO
8000.	0.5398E-01	5	1.0	1.3	10000.0	124.29	334.75	76.45	NO
8500.	0.5331E-01	5	1.0	1.3	10000.0	124.29	353.23	78.49	NO
9000.	0.5254E-01	5	1.0	1.3	10000.0	124.29	371.59	80.47	NO
9500.	0.5169E-01	5	1.0	1.3	10000.0	124.29	389.84	82.41	NO
10000.	0.5079E-01	5	1.0	1.3	10000.0	124.29	407.97	84.30	NO
15000.	0.4333E-01	6	1.0	1.5	10000.0	102.54	389.11	59.52	NO
20000.	0.3871E-01	6	1.0	1.5	10000.0	102.54	501.48	64.54	NO
25000.	0.3473E-01	6	1.0	1.5	10000.0	102.54	610.18	68.82	NO
30000.	0.3140E-01	6	1.0	1.5	10000.0	102.54	715.96	72.58	NO
40000.	0.2597E-01	6	1.0	1.5	10000.0	102.54	920.51	77.97	NO
50000.	0.2216E-01	6	1.0	1.5	10000.0	102.54	1117.66	82.47	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 20. M:

635.	0.9847E-01	4	20.0	22.5	6400.0	33.73	45.38	22.88	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

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*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.9847E-01	635.	0.

ATTACHMENT E

TCEQ REVIEW OF REGULATORY REQUIREMENTS

REVIEW OF REGULATORY REQUIREMENTS OF 30 TAC § 116.610 AND 615

As required by Item V.E of Form PI-1S, this section demonstrates that the facilities satisfy all of the general requirements specified in 30 TAC § 116.610 and 615.

§116.610. Applicability.

(a) Under the Texas Clean Air Act, §382.051, a project that meets the requirements for a standard permit listed in this subchapter or issued by the commission is hereby entitled to the standard permit, provided the following conditions listed in this section are met. For the purposes of this subchapter, project means the construction or modification of a facility or a group of facilities submitted under the same registration.

(1) Any project that results in a net increase in emissions of air contaminants from the project other than carbon dioxide, water, nitrogen, methane, ethane, hydrogen, oxygen, or those for which a national ambient air quality standard has been established must meet the emission limitations of §106.261 of this title (relating to Facilities Emission Limitations), unless otherwise specified by a particular standard permit. **The emission limitations are met as demonstrated by the emission calculations.**

(2) Construction or operation of the project must be commenced prior to the effective date of a revision to this subchapter under which the project would no longer meet the requirements for a standard permit. **Operations will commence prior to a revision of this standard permit.**

(3) The proposed project must comply with the applicable provisions of the Federal Clean Air Act (FCAA), §111 (concerning New Source Performance Standards) as listed under 40 Code of Federal Regulations (CFR) Part 60, promulgated by the United States Environmental Protection Agency (EPA). **Equipment at the facility is subject to New Source Performance Standards. See Section 3.0 for details on applicability.**

(4) The proposed project must comply with the applicable provisions of FCAA, §112 (concerning Hazardous Air Pollutants) as listed under 40 CFR Part 61, promulgated by the EPA. **There are no sources subject to NESHAP located at this facility.**

(5) The proposed project must comply with the applicable maximum achievable control technology standards as listed under 40 CFR Part 63, promulgated by the EPA under FCAA, §112 or as listed under Chapter 113, Subchapter C of this title (relating to National Emissions Standards for Hazardous Air Pollutants for Source Categories (FCAA, §112, 40 CFR Part 63)). **Equipment at the facility is subject to MACT Standards. See Section 3.0 for details on applicability.**

(6) If subject to Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program) the proposed facility, group of

facilities, or account must obtain allocations to operate. **Not Applicable.**

(b) Any project that constitutes a new major stationary source or major modification as defined in §116.12 of this title (relating to Nonattainment and Prevention of Significant Deterioration Review Definitions) is subject to the requirements of §116.110 of this title (relating to Applicability) rather than this subchapter. **This facility is not a major source.**

(c) Persons may not circumvent by artificial limitations the requirements of §116.110 of this title**. Not applicable.**

(d) Any project involving a proposed affected source (as defined in §116.15(1) of this title (relating to Section 112(g) Definitions)) shall comply with all applicable requirements under Subchapter E of this chapter (relating to Hazardous Air Pollutants: Regulations Governing Constructed or Reconstructed Major Sources (FCAA, §112(g), 40 CFR Part 63)). Affected sources subject to Subchapter E of this chapter may use a standard permit under this subchapter only if the terms and conditions of the specific standard permit meet the requirements of Subchapter E of this chapter. **This facility is not subject to this requirement.**

116.615. General Conditions.

The following general conditions are applicable to holders of standard permits, but will not necessarily be specifically stated within the standard permit document.

(1) Protection of public health and welfare. The emissions from the facility, including dockside vessel emissions, must comply with all applicable rules and regulations of the commission adopted under Texas Health and Safety Code, Chapter 382, and with the intent of the Texas Clean Air Act (TCAA), including protection of health and property of the public. **The facility is in compliance with this regulation.**

(2) Standard permit representations. All representations with regard to construction plans, operating procedures, and maximum emission rates in any registration for a standard permit become conditions upon which the facility or changes thereto, must be constructed and operated. It is unlawful for any person to vary from such representations if the change will affect that person's right to claim a standard permit under this section. Any change in condition such that a person is no longer eligible to claim a standard permit under this section requires proper authorization under §116.110 of this title (relating to Applicability). If the facility remains eligible for a standard permit, the owner or operator of the facility shall notify the executive director of any change in conditions which will result in a change in the method of control of emissions, a change in the character of the emissions, or an increase in the discharge of the various emissions as compared to the representations in the original registration or any previous notification of a change in representations. Notice of changes in representations must be received by the executive director no later than 30 days after the change. **Longfellow will submit notices as applicable.**

(3) Standard permit in lieu of permit amendment. All changes authorized by standard

permit to a facility previously permitted under 116.110 of this title shall be administratively incorporated into that facility's permit at such time as the permit is amended or renewed. **Longfellow will comply with this requirement as applicable.**

(4) Construction progress. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office not later than 15 working days after occurrence of the event, except where a different time period is specified for a particular standard permit. **Longfellow will comply with this requirement as applicable.**

(5) Start-up notification.

(A) The appropriate air program regional office of the commission and any other air pollution control agency having jurisdiction shall be notified prior to the commencement of operations of the facilities authorized by a standard permit in such a manner that a representative of the executive director may be present. **Longfellow will comply with this requirement as applicable.**

(B) For phased construction, which may involve a series of units commencing operations at different times, the owner or operator of the facility shall provide separate notification for the commencement of operations for each unit. **Phased construction is not requested with this submittal.**

(C) Prior to beginning operations of the facilities authorized by the permit, the permit holder shall identify to the Office of Permitting, Remediation, and Registration, the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). **Not Applicable.**

(D) A particular standard permit may modify start-up notification requirements.

(6) Sampling requirements. If sampling of stacks or process vents is required, the standard permit holder shall contact the commission’s appropriate regional office and any other air pollution control agency having jurisdiction prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The standard permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. **Notifications will be submitted as applicable.**

(7) Equivalency of methods. The standard permit holder shall demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the standard permit. Alternative methods must be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the standard permit. **No**

alternative methods are proposed.

(8) Recordkeeping. A copy of the standard permit along with information and data sufficient to demonstrate applicability of and compliance with the standard permit shall be maintained in a file at the plant site and made available at the request of representatives of the executive director, the United States Environmental Protection Agency, or any air pollution control agency having jurisdiction. For facilities that normally operate unattended, this information shall be maintained at the nearest staffed location within Texas specified by the standard permit holder in the standard permit registration. This information must include, but is not limited to, production records and operating hours. Additional recordkeeping requirements may be specified in the conditions of the standard permit. Information and data sufficient to demonstrate applicability of and compliance with the standard permit must be retained for at least two years following the date that the information or data is obtained. The copy of the standard permit must be maintained as a permanent record. **Records will be maintained as required.**

(9) Maintenance of emission control. The facilities covered by the standard permit may not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. Notification for emissions events and scheduled maintenance shall be made in accordance with §101.201 and §101.211 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; and Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements). **Longfellow will comply with this requirement as applicable.**

(10) Compliance with rules. Registration of a standard permit by a standard permit applicant constitutes an acknowledgment and agreement that the holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the claiming of the standard permit. If more than one state or federal rule or regulation or permit condition are applicable, the most stringent limit or condition shall govern. Acceptance includes consent to the entrance of commission employees and designated representatives of any air pollution control agency having jurisdiction into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the standard permit. **Longfellow will comply with this requirement as applicable.**

(11) Distance limitations, setbacks, and buffer zones. Notwithstanding any requirement in any standard permit, if a standard permit for a facility requires a distance, setback, or buffer from other property or structures as a condition of the permit, the determination of whether the distance, setback, or buffer is satisfied shall be made on the basis of conditions existing at the earlier of: (A) the date new construction, expansion, or modification of a facility begins; or (B) the date any application or notice of intent is first filed with the commission to obtain approval for the construction or operation of the facility. **Longfellow will comply with this requirement as applicable.**

REVIEW OF REGULATORY REQUIREMENTS AIR QUALITY STANDARD PERMIT FOR ELECTRIC GENERATING UNITS (*Effective date May 16, 2007*)

This standard permit authorizes electric generating units that generate electricity for use by the owner or operator and/or generate electricity to be sold to the electric grid, and that meet all of the conditions listed below.

(1) Applicability

(A) This standard permit may be used to authorize electric generating units installed or modified after the effective date of this standard permit and that meet the requirements of this standard permit. **The proposed facility may be authorized by this standard permit.**

(B) This standard permit may not be used to authorize boilers. Boilers may be authorized under the Air Quality Standard Permit for Boilers; 30 TAC § 106.183, Boilers, Heaters, and Other Combustion Devices; or a permit issued under the requirements of 30 TAC Chapter 116. **No boilers are associated with this project.**

(2) Definitions

(A) East Texas Region - All counties traversed by or east of Interstate Highway 35 or Interstate Highway 37, including Bosque, Coryell, Hood, Parker, Somervell and Wise Counties.

(B) Installed - a generating unit is installed on the site when it begins generating electricity.

(C) West Texas Region - Includes all of the state not contained in the East Texas Region.

(D) Renewable fuel - fuel produced or derived from animal or plant products, byproducts or wastes, or other renewable biomass sources, excluding fossil fuels. Renewable fuels may include, but are not limited to, ethanol, biodiesel, and biogas fuels.

(3) Administrative Requirements

(A) Electric generating units shall be registered in accordance with 30 TAC § 116.611, Registration to Use a Standard Permit, using a current Form PI-1S. Units that meet the conditions of this standard permit do not have to meet 30 TAC § 116.610(a)(1), Applicability. **Longfellow will comply with all applicable requirements.**

(B) Registration applications shall comply with 30 TAC § 116.614, Standard Permit Fees, for any single unit or multiple units at a site with a total generating capacity of 1 megawatt (MW) or greater. The fee for units or multiple units with a total generating capacity of less than 1 MW at a site shall be $100.00. The fee shall be

waived for units or multiple units with a total generating capacity of less than 1 MW at a site that have certified nitrogen oxides (NOx) emissions that are less than 10 percent of the standards required by this standard permit. **The permit fee will be paid electronically via STEERS.**

(C) No owner or operator of an electric generating unit shall begin construction and/or operation without first obtaining written approval from the executive director. **Longfellow will comply with all applicable requirements.**

(D) Records shall be maintained and provided upon request to the Texas Commission on Environmental Quality (TCEQ) for the following:

(i) Hours of operation of the unit;

(ii) Maintenance records, maintenance schedules, and/or testing reports for the unit to document re-certification of emission rates as required by subsection (4)(G) below; and

(iii) Records to document compliance with the fuel sulfur limits in subsection (4)(C).

Longfellow will comply will all applicable recordkeeping requirements.

(E) Electric generators powered by gas turbines must meet the applicable conditions, including testing and performance standards, of Title 40 Code of Federal Regulations (CFR) Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, and applicable requirements of 40 CFR Part 60 Subpart KKKK, Standards of Performance for Stationary Combustion Turbines. **Longfellow will comply with all applicable requirements.**

(F) Compliance with this standard permit does not exempt the owner or operator from complying with any applicable requirements of 30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds, or 30 TAC Chapter 114, Control of Air Pollution from Motor Vehicles. **Longfellow will comply as applicable.**

(4) General Requirements

(A) Emissions of NOx from the electric generating unit shall be certified by the manufacturer or by the owner or operator in pounds of pollutant per megawatt hour (lb/MWh). This certification must be displayed on the name plate of the unit or on a label attached to the unit. Test results from U.S. Environmental Protection Agency (EPA) reference methods, California Air Resources Board methods, or equivalent alternative testing methods approved by the executive director used to verify this certification shall be provided upon request to the TCEQ. The unit must operate on the same fuel(s) for which the unit was certified. **Longfellow will conduct emissions testing as necessary to certify the emissions of the equipment.**

(B) Electric generating units that use combined heat and power (CHP) may take credit for the heat recovered from the exhaust of the combustion unit to meet the

emission standards in subsections (4)(D), (4)(E), and (4)(F). Credit shall be at the rate of one MWh for each 3.4 million British Thermal Units of heat recovered. The following requirements must be met to take credit for CHP for units not sold and certified as an integrated package by the manufacturer: (i) The owner or operator must provide as part of the application documentation of the heat recovered, electric output, efficiency of the generator alone, efficiency of the generator including CHP, and the use for the non-electric output, and (ii) The heat recovered must equal at least 20 percent of the total energy output of the CHP unit. **There are no CHP units proposed with this project.**

(C) Fuels combusted in these electric generating units are limited to: (i) Natural gas containing no more than ten grains total sulfur per 100 dry standard cubic feet; (ii) Landfill gas, digester gas, stranded oilfield gas, or gaseous renewable fuel containing no more than 30 grains total sulfur per 100 dry standard cubic feet; or (iii) Liquid fuels (including liquid renewable fuel) not containing waste oils or solvents and containing less than 0.05 percent by weight sulfur. **The equipment will burn pipeline grade natural gas**

(D) Except as provided in subsections (4)(F) and (4)(H), NOx emissions for units 10 MW or less shall meet the following limitations based upon the date the unit is installed and the region in which it operates:
East Texas Region:

(i) Units installed prior to January 1, 2005 and

(a) operating more than 300 hours per year - 0.47 lb/MWh;

(b) operating 300 hours or less per year - 1.65 lb/MWh;

(ii) Units installed on or after January 1, 2005 and

(a) operating more than 300 hours per year, with a capacity greater than 250 kilowatts (kW) - 0.14 lb/MWh;

(b) operating 300 hours or less per year - 0.47 lb/MWh; or

(c) any unit with a capacity of 250 kW or less - 0.47 lb/MWh.

The units will be located in Pecos County

West Texas Region:

(i) Units operating more than 300 hours per year - 3.11 lb/MWh;

(ii) Units operating 300 hours or less per year - 21 lb/MWh. Units certified to comply with applicable Tier 1, 2, or 3 emission standards in 40 CFR Part 89, Control of Emissions from New and In-Use Nonroad Compression-Ignition Engines, are deemed to satisfy this emission limit.

The units are located in the West Texas Region.

(E) Except as provided in subsections (4)(F) and (4)(H), NOx emissions for units greater than 10 MW shall meet the following limitations:

(i) Units operating more than 300 hours per year - 0.14 lb/MWh;

(ii) Units operating 300 hours or less per year - 0.38 lb/MWh.

The proposed units are greater than 10 MWh and have a proposed NOx emission rate of 0.14 lb/MWh.

(F) Electric generating units firing any gaseous or liquid fuel that is at least 75 percent landfill gas, digester gas, stranded oil field gas, or renewable fuel content by volume, shall meet a NOx emission limit of 1.90 lb/MWh. Units in West Texas with a capacity of 10 MW or less that fire at least 75 percent landfill gas, digester gas, stranded oilfield gases, or gaseous or liquid renewable fuel by volume, must comply with the applicable West Texas NOx limit in subsection (4)(D). **N/A, the units will burn pipeline grade natural gas.**

(G) To ensure continuing compliance with the emissions limitations, the owner or operator shall re-certify a unit every 16,000 hours of operation, but no less frequently than every three years. Re-certification may be accomplished by following a maintenance schedule that the manufacturer certifies will ensure continued compliance with the required NOx standard or by third party testing of the unit using appropriate EPA reference methods, California Air Resources Board methods, or equivalent alternative testing methods approved by the executive director to demonstrate that the unit still meets the required emission standards. After re-certification, the unit must operate on the same fuel(s) for which the unit was re-certified. **Longfellow will conduct emissions testing as applicable.**

(H) The NOx emission limits in subsections (4)(D)-(4)(F) are subject to the following exceptions:

(i) The hourly NOx emission limits do not apply at times when the ambient air temperature at the location of the unit is less than 0 degrees Fahrenheit.

(ii) At times when a unit is operating at less than 80% of rated load, an alternative NOx emission standard for that unit may be determined by multiplying the applicable emission standard in subsections (4)(D)-(4)(F) by the rated load of the EGU (in MW), to produce an allowable hourly mass NOx emission rate. In order to use this alternative standard, an owner or operator must maintain records that demonstrate compliance with the alternative emission standard, and make such records available to the TCEQ or any local air pollution control agency with jurisdiction upon request. **Longfellow will comply as applicable.**

ATTACHMENT F

MANUFACTURER SPEC SHEETS

TM2500 POWER PLANTS

33–36 MW
HOT OUTPUT

11 DAYS
INSTALLATION AND COMMISSIONING TIME

300+ UNITS
INSTALLED WORLDWIDE

CAPABILITY
5-minute start from cold metal to full power output

VERSATILITY
All units are natural gas/liquid fuel capable across a wide range of fuels, including propane and naphtha

SUSTAINABILITY
10X lower emissions than reciprocating technology; exceeds World Bank requirements

The TM2500 works well for providing a baseload bridge to permanent power installations or for generating backup power in the wake of natural disasters, plant shutdowns, or grid instability. Our complete solutions—including trailermounted gas turbine generator set and containerized balance of plant—can put power on the grid within 30 days of the contract signature; this fast power provides the greatest power density among gas turbine trailer-mounted offerings.

	TM2500 (50 Hz)		**TM2500** (60 Hz)	
Simple cycle specifications	WET	DRY	WET	DRY
Net output wet (MW)	33.7	32.5	36.0	33.3
Net heat rate (Btu/kWh, LHV)	9,754	9,245	9,318	8,886
Net heat rate (kJ/kWh, LHV)	10,291	9,754	9,831	9,375
Net efficiency	35.0%	36.9%	36.6%	38.4%
Ramp rate (MW/minute)	20	20	20	20
Startup time (cold iron) (min)	5	5	5	5
TM2500 additional specifications				
Reliability	99.5%			
Availability	98.7%			
Start reliability	98.35%			
Fleet operation hours	77.9M			
Hot section (hrs)	25,000			
Overhaul (hrs)	50,000			
NOx emission (ppm) (@ 15% O2)	25			
Package noise (dBA average)	<90			
Combustion	SAC			

NOTE: All ratings are net plant, based on ISO conditions and natural gas fuel. Actual performance will vary with project-specific conditions and fuel.

gepower.com

GEA34341 (11/2019)

GE Power & Water
Distributed Power

TM2500+™ Mobile Gas Turbine Generator

50/60 Hz Applications

fact sheet

GE Power & Water now offers a faster, more reliable solution for bridging the gap between energy outages and dependable power generation. As the newest enhancement of GE's trailer-mounted unit, the TM2500+ offers a 31% increase in power in a more compact footprint with less time than ever between contract and commissioning.

Perfect for on-demand power, the TM2500+ is capable of producing up to 31 megawatts of power—achieving full power in less than 10 minutes.

Key Product Features and Benefits

- Developed specifically to respond to the need for fast or mobile power
- Small Footprint 24 m x 7 m (78 ft x 21 ft)
- Flexible to operate on either natural gas or liquid distillate fuels
- Dual Frequency—50/60 Hz quick conversion
- Low emissions with demineralized water injection 25 ppm (gas)/42 ppm (liquid)
- Quick to dispatch
- Easy to operate and maintain

imagination at work

ecomagination

Improved Design

Now packaged on a two-trailer system with a top-mounted air inlet filter and exhaust assemblies, GE's TM2500+ requires 77% less space than its predecessor. Both the inlet filter assembly and the exhaust duct are mounted directly on top of the main trailer assembly, making the TM2500+ easily transported by ship, air, or road to even the most remote locations around the globe.

The improved TM2500+ design offers an increased number of quick-disconnect fittings, which simplifies and accelerates the installation process allowing for assembly and setup in just one day.

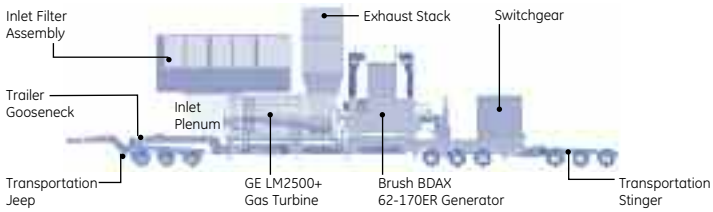
Leveraging experience gained from over 60,000 hours of operation in a variety of applications around the globe, the TM2500+ is easily converted from 50 to 60 Hz and is capable of operating on either natural gas or liquid distillate fuels. The unit also offers the option of water injection for NO_x suppression down to 25 ppm. The TM2500+ incorporates GE's lightweight LM2500+ aeroderivative gas turbine with the Brush 170ER generator.

Applications

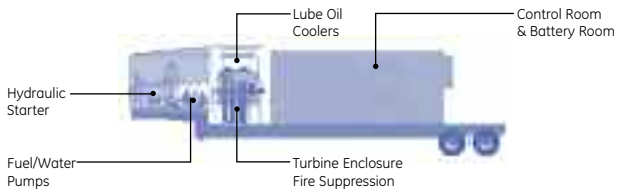
GE has sold more than 2,000 LM2500 and LM2500+ units in power generation applications worldwide, making it the world's most experienced, reliable gas turbine solution for temporary power applications.

- Supplementing power to the grid for peak shaving or managing seasonal demands
- Overcoming generation constraints such as hydropower shortages
- Backup power to support maintenance, overhauls, or outages at power plants or for large-scale projects
- Power for remote areas
- Emergency power support during natural disasters
- O&G and Mining applications

TM2500+ General Arrangement



Auxiliary Trailer



Model	Water Injection (NOx = 25 ppmvd @15% O_2)	Output (MW)	Heat Rate (Btu/kWh)	Heat Rate (kJ/kWh)	Efficiency (%)	Pressure Ratio	Power Turbine Speed (RPM)	Exhaust Flow (lb/sec)	Exhaust Flow (kg/sec)	Exhaust Temp (F)	Exhaust Temp (C)
60 HZ											
TM2500+	None	30.688	8830	9316	39	22.5	3600	192.2	87.2	959.1	515
TM2500+	Yes	30.988	9285	9796	37	22.8	3600	196.6	89.2	906.0	485.6
50 HZ											
TM2500+	None	26.190	9246	9755	37	21.2	3000	184.5	83.7	925.0	496.1
TM2500+	Yes	26.190	9705	10239	35	21.3	3000	187.2	84.9	879.0	470.6

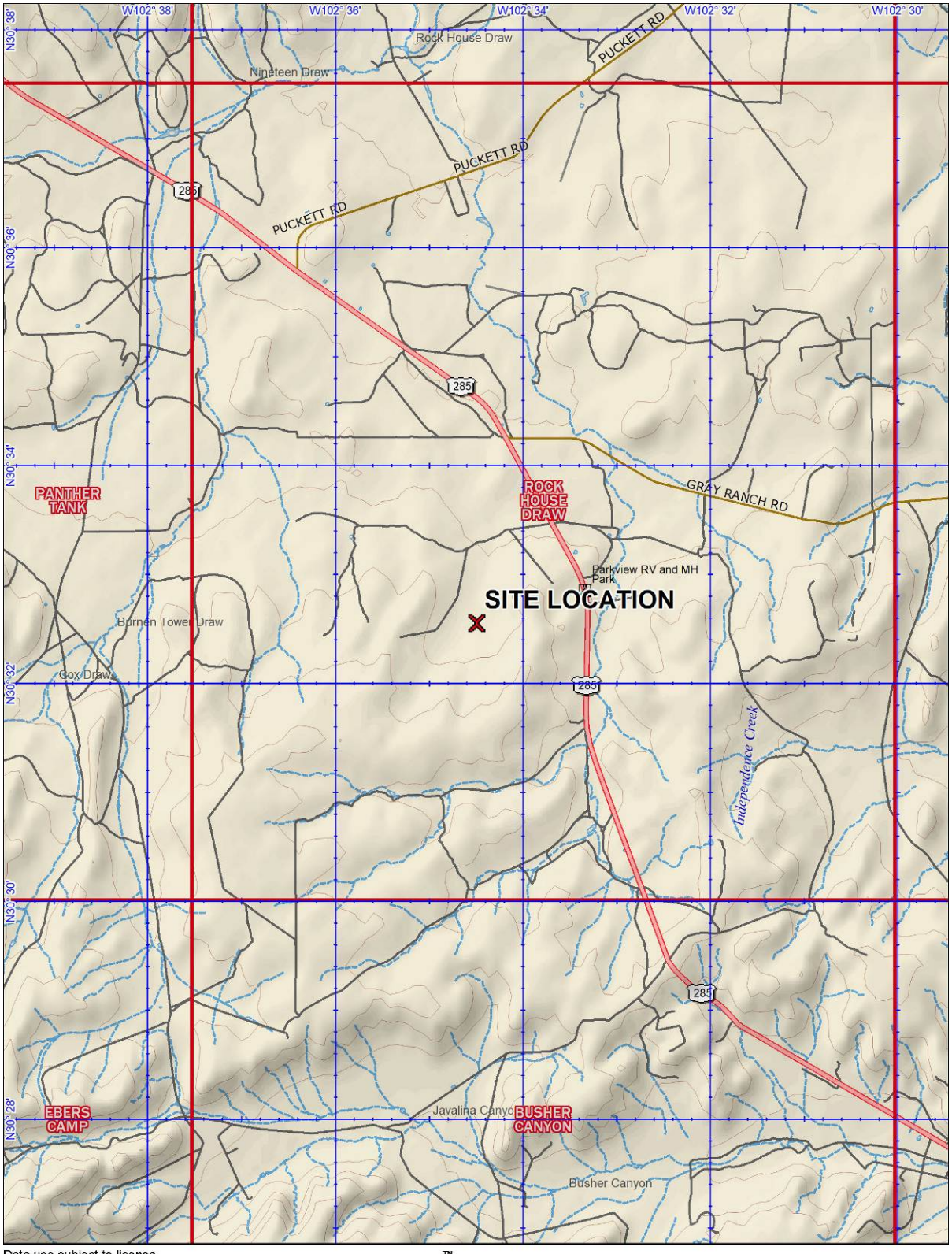
*60 Hz based on a Brush air-cooled generator w/brushless excitation @ 0.90 PF, 59°F cooling air, 13.8 kV (50 Hz @ 11.5 kV), Ambient air: 59°F, 60% RH, Sea level

For more information, contact your GE representative or visit www.ge-aero.com

GEA17258I (10/2013)

ATTACHMENT G

FACILITY LOCATION MAP



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www.delorme.com

TN
MN (6.3°E)

ALTAMIRA	FIGURE TITLE: ***AREA MAP***
525 CENTRAL PARK DR. SUITE 500 OKLAHOMA CITY, OK 73105 www.altamira-us.com	DOCUMENT TITLE: STANDARD PERMIT CLIENT: LONGFELLOW POWER, LLC LOCATION: ROCK HOUSE DRAW GENERATING STATION PECOS COUNTY, TEXAS

DATE	9/12/2025
SCALE	AS SHOWN
DESIGNED BY	AD
APPROVED BY	SW
DRAWN BY	AD
PROJECT NUMBER	LFEANM2201
FIGURE NUMBER	Attachment G

ATTACHMENT H

TABLE 1(A) EMISSION SOURCES

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date:	Sep-25	Permit No.:	TBD	Regulated Entity No.:	N/A
Area Name:	Rock House Draw Generating Station			Customer Reference No.:	CN606269777

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
(A) EPN	(B) FIN	(C) NAME		(A) POUND	(B) TPY
GEN1	GEN1	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN2	GEN2	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN3	GEN3	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN4	GEN4	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN5	GEN5	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN6	GEN6	GE TM2500 GEN 8 Generator	NOx	0.50	2.21
			CO	0.70	3.09
			VOC	0.70	3.09
			PM10/PM2.5	2.21	9.70
			SO2	1.14	5.00
			Formaldehyde	0.17	0.74
GEN7	GEN7	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
			Formaldehyde	0.14	0.63
GEN8	GEN8	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
			Formaldehyde	0.14	0.63
GEN9	GEN9	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN10	GEN10	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date:	Sep-25	Permit No.:	TBD	Regulated Entity No.:	N/A
Area Name:	Rock House Draw Generating Station			Customer Reference No.:	CN606269777

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA					
1. Emission Point			2. Component or Air Contaminant Name	3. Air Contaminant Emission Rate	
(A) EPN	(B) FIN	(C) NAME		(A) POUND	(B) TPY
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN11	GEN11	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN12	GEN12	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN13	GEN13	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN14	GEN14	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN15	GEN15	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28
GEN16	GEN16	GE TM2500 PLUS Generator E	NOx	0.43	1.90
			CO	1.65	7.23
			VOC	0.60	2.65
			PM10/PM2.5	1.90	8.32
			SO2	0.98	4.28

EPN = Emission Point Number
FIN = Facility Identification Number

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date:	Sep-25	**Permit No.:**	TBD	**Regulated Entity No.:**	N/A
Area Name:	Rock House Draw Generating Station			**Customer Reference No.:**	CN606269777

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA			EMISSION POINT DISCHARGE PARAMETERS							
1. Emission Point			4. UTM Coordinates of Emission Point			Source				
						5. Building	6. Height Above	7. Stack Exit Data		
EPN (A)	FIN (B)	Name (C)	Zone	East (Meters)	North (Meters)	Height (Ft.)	Ground (Ft.)	Diameter (Ft.) (A)	Velocity (FPS) (B)	Temperature (°F) (C)
GEN1	GEN1	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN2	GEN2	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN3	GEN3	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN4	GEN4	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN5	GEN5	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN6	GEN6	GE TM2500 GEN 8 Generator Engine	13	732482	3388795		72.0	9.00	16.5	926
GEN7	GEN7	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN8	GEN8	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN9	GEN9	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN10	GEN10	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN11	GEN11	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN12	GEN12	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN13	GEN13	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN14	GEN14	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN15	GEN15	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983
GEN16	GEN16	GE TM2500 PLUS Generator Engine	13	732482	3388795		72.0	9.00	15.1	983

EPN = Emission Point Number

FIN = Facility Identification Number