



ELECTRIC GENERATING UNIT STANDARD PERMIT

FOR

Pecos Power Plant LLC

Pecos Power Plant

City of Pecos, Reeves County, Texas

EFFECTIVE DATE: NOVEMBER 25, 2024

PROJECT: 24-0909.006

CUSTOMER REFERENCE NUMBER:

REGULATED ENTITY NUMBER

DOC NO.: REP-24-0909-006 Rev 0

PREPARED FOR:

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Document Production / Revision Status						
Rev	Description	Date	Contributors	Author	Technical Review	Internal Standards Review
1	Draft	11/25/2024	Kevin Whitenight	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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CONTENTS

ABBREVIATIONS	IV
1 INTRODUCTION.....	1
1.1 Introduction	1
1.2 Regulatory Background	1
1.3 General Facility Information	1
2 PROCESS DESCRIPTION	1
3 FACILITIES AUTHORIZED UNDER PERMIT BY RULE	2
3.1 Emergency Engines.....	2
3.2 Storage Tanks	2
3.3 Routine Maintenance, Startup and Shutdown of Facilities, and Temporary Maintenance Facilities	2
3.4 Process Heaters	2
4 FEDERAL APPLICABILITY.....	2
5 BASIS FOR EMISSION CALCULATIONS.....	3
5.1 Nitrogen Oxide Emissions.....	3
5.2 Carbon Monoxide and Volatile Organic Compound Emissions	3
5.3 Particulate Matter Emissions.....	3
5.4 Ammonia Emissions	3
5.5 Process Fugitives.....	3
6 AGENCY FORMS	4

FIGURES

Figure 1 – Site Location Map

Figure 2 – Process Flow Diagram

APPENDICES

Appendix A –Emission Calculations

Appendix B – Agency Forms

Appendix C – Data and Equipment Sheets

ABBREVIATIONS

CFR	Code of Federal Regulations
EPN	Emission Point Number
EPA	Environmental Protection Agency
LB/HR	Pounds per Hour
PBR	Permit By Rule
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TPY	Tons per year

1 INTRODUCTION

1.1 Introduction

Pecos Power Plant LLC proposes to construct and operate the Pecos Power Plant. The Pecos Power Plant is a natural gas-fired electric generating site new to the City of Pecos, Reeves County Texas. The site will consist of twelve (12) electric generating engines and auxiliary equipment.

1.2 Regulatory Background

Pursuant to 30 TAC §116.611 Requirements Pecos Power Plant is requesting an Electric Generating Unit Standard Permit to authorize emissions for the Pecos Power Plant.

1.3 General Facility Information

Pecos Power Plant proposes to construct a new electric generating peaking facility, which will consist of twelve (12) Wartsila 18V50SG-D natural gas-fired engines to support the electric grid. The 12-engine sitewide total will have the capacity to generate 225.6 megawatts (MW). The engines will be fired exclusively with pipeline quality natural gas.

2 PROCESS DESCRIPTION

The Pecos Power Plant will consist of twelve (12) Wartsila 18V50SG-D, four-stroke, spark-ignited, lean-burn gas engines (EPN: IC-1 through IC-12) and other mechanical and electrical auxiliary systems. The engine exhausts will be fitted with selective catalytic reduction (SCR) systems for control of nitrogen oxides (NOx) and oxidation catalysts for control of carbon monoxide (CO) and volatile organic compounds (VOC).

Natural gas will be delivered to the site via pipeline and then piped to the reciprocating engines. Fugitive emissions of natural gas are designated as EPNs: NG-FUG1. Urea will be delivered to the site via tank truck, piped to and stored in a storage tank, and routed to the SCR system where it will be converted into ammonia. The Pecos Power Plant will operate as a peaking facility with up to 4,500 hours per year.

3 FACILITIES AUTHORIZED UNDER PERMIT BY RULE

3.1 Emergency Engines

The project may have a diesel emergency generator. The emergency generator will be authorized separately by claiming Permit by Rule 30 TAC §106.511.

3.2 Storage Tanks

The project will have two lube oil tanks, that will be authorized by claiming Permit by Rule 30 TAC §106.472. Additionally, the site may require other various fuel and chemical storage tanks that will be authorized separately by claiming the appropriate Permit by Rule.

3.3 Routine Maintenance, Startup and Shutdown of Facilities, and Temporary Maintenance Facilities

The project will require routine MSS which will be authorized by claiming Permit by Rule 30 TAC §106.263 and the MSS emissions represented in this standard permit registration.

3.4 Process Heaters

Process heaters will have a heat input less than 40 MMBtu/hr and will be fired on sweet natural gas and authorized by claiming PBR 106.183 (registration not required).

4 FEDERAL APPLICABILITY

The Pecos Power Plant will be located in Reeves County, which is classified as an attainment/unclassified county for criteria pollutants. Therefore, nonattainment new source review (NNSR) is not applicable. In addition, the proposed facility is an unnamed source and will not exceed prevention of significant deterioration (PSD) major source thresholds (250 tons per year) for criteria pollutants. The stationary natural gas-fired reciprocating internal combustion engines (RICE) will be subject to 40 CFR Part 60, New Source Performance Standards Subpart JJJJ and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants Subpart ZZZZ. The Pecos Power Plant will be a new major source requiring a Title V Permit.

5 BASIS FOR EMISSION CALCULATIONS

5.1 Nitrogen Oxide Emissions

Hourly and annual emissions are based on vendor provided information. NO_x emissions will be controlled by SCR, except during maintenance, startup, and shutdown (MSS) operations such as startup, when the SCRs will be engaged after the engines reach the required operating temperature.

5.2 Carbon Monoxide and Volatile Organic Compound Emissions

Carbon monoxide (CO) and volatile organic compounds (VOC) will be controlled by catalytic oxidation. Hourly and annual emissions are based on vendor provided information after controls.

5.3 Particulate Matter Emissions

Hourly and annual particulate matter (PM/PM₁₀/PM_{2.5}) emissions are based on vendor provided information.

5.4 Ammonia Emissions

Ammonia (NH₃) emissions occur due to slip of excess ammonia from the SCR systems. Hourly and annual ammonia emissions are based on vendor provided information.

5.5 Process Fugitives

Fugitive emissions of VOC will originate from the natural gas fuel lines. Fugitive emission rates were estimated using the methods outlined in the TCEQ's Air Permit Technical Guidance for Chemical Sources: Air Permit Technical Guidance for Chemical Sources, Fugitive Guidance, (APDG 6422, June 2018).

Detailed emission calculations are included in **Appendix A**.

Pecos Power Plant meets all the requirements listed in Title 30 TAC Chapter 116 and Electric Generating Unit Standard Permit. Compliance demonstrations are located in **Appendix B**.

Information related to data sheets and equipment involved are detailed in **Appendix C**.

6 AGENCY FORMS

Table 6-1 outlines the forms that have been completed for this PBR application. Agency forms are included in **Appendix B**.

Table 6-1: Application Documents


X	Core Data Form
X	Form PI-S, Registration for Air Standard Permit
X	30 TAC §116 Applicability Checklist
X	EGU Standard Permit Compliance Demonstration
X	Table 29 Reciprocating Engines
X	Table 1a Emission Summary

FIGURES

FIGURE 1
SITE LOCATION MAP




LEGEND

 Approximate Property Boundary

RELIABILITY DESIGN & DEVELOPMENT
APPROXIMATELY 25 ACRES
NEAR PECOS AIRPORT
PECOS, REEVES COUNTY, TEXAS

SITE MAP

PROJECT NUMBER: 24-0909
FILE NAME: FIGURE_1_SITE_LOCATION_MAP
DATE: 6/7/2024
DRAWN BY: LS
APPROVED BY: AB



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Projection: NAD 1983 StatePlane Texas Central FIPS 4203 Feet
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China

FIGURE 1

0 1,000' N

1 inch = 1,000 feet


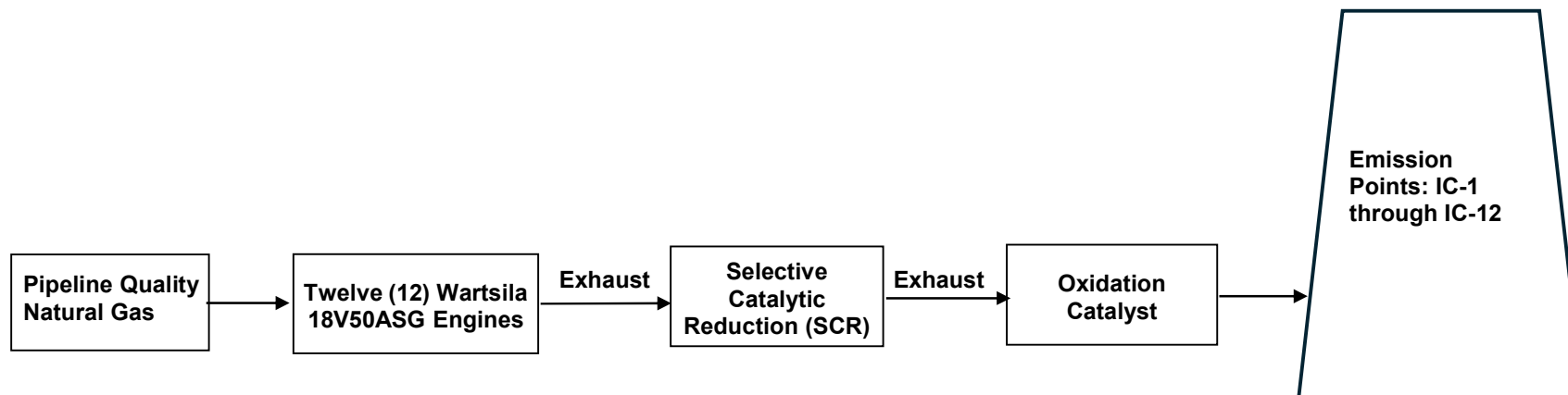


Figure 2
Process Flow Diagram



**Process Flow Diagram
Pecos Power Plant
Figure 2**

Project Number: 24-0909-006
File Name: Figure 2
Date: 11/21/2024



APPENDICES

APPENDIX A

EMISSION CALCULATIONS

Fuel Data	
Fuel Type	natural gas
Fuel Consumption (BTU/lbhp-hr)	8,054
Heat Value (Btu/lb)	8053.60774
Heat Value (LHV) (BTU/lb)	7321.461582
Sulfur Content (grains/100cc)	0.002
Fuel Heat Value (Btu/scf)	1911
Hours of Operation per Year	4,500

NOx 0.13 lb/MWh

EPN	Engine Make	Engine Model	Power Rating (HP)	Emissions Control Type	Engine Type	Fuel Consumption (BTU/lb-hr)	Hours of Operation per Year	Emission Factor before control (g/lb-hr)								Efficiency of Control Device (%)	Emission Factor after control (g/lb-hr)								Emissions (lb/hr)								Emissions (tpy)								
								VOC	NOx	CO	PM ₁₀	PM _{2.5}	SO ₂	Formaldehyde	Benzene		VOC	NOx	CO	PM ₁₀	PM _{2.5}	SO ₂	Formaldehyde	Benzene	VOC	NOx	CO	PM ₁₀	PM _{2.5}	SO ₂	Formaldehyde	Benzene	VOC	NOx	CO	PM ₁₀	PM _{2.5}	SO ₂	Formaldehyde	Benzene	
IC-1	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-2	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-3	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-4	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-5	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-6	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-7	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-8	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-9	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-10	Wartsila	18V505G	25,305	SCR Catalyst	4 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	90%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-11	Wartsila	18V505G	25,305	SCR Catalyst	5 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	190%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176
IC-12	Wartsila	18V505G	25,305	SCR Catalyst	6 Stroke, Lean-Burn	8,054	4,500							0.00215		0.00161	250%	0.09	0.04	0.09	0.06	0.04	0.00215	0.004	0.00161	4.95	2.46	4.99	3.19	2.06	0.12	0.25	0.089671	11.1375	5.535	11.2275	7.1775	4.635	0.26962	0.5625	0.20176

1 - SO₂ and Benzene emissions factors from AP-42

2- VOC, NOx, CO, PM and Formaldehyde emissions factors are from the manufacturer, after control

59.4 29.52 59.88 38.28 24.72 1.44 3.00 1.08 133.65 66.42 134.73 86.13 55.82 3.24 6.75 2.42

Pecos Power Plant**Start up and Shutdown Emissions****EPNs: IC-1 through IC-12**

Make	Wartsila
Engine Name	18V50SG-D
Engine Type	RICE
Engine Ignition	SI
Burn	LB
Engine Size (MW)	18.80
Fuel	

Project Details

Number of Engines	12	Cold	Warm	Hot
Number of Starts per unit	300	150	100	50

Type of Start		Cold	Warm	Hot
Typical standby time before engine start		> 2 days	12 hours	6 hours
NOx	lb/30 min	10.2	5.7	3.5
CO	lb/30 min	15.2	13.7	11.4
VOC	lb/30 min	3.3	3.1	2.8
PM10	lb/30 min	3.0	3.0	3.0
NH3	lb/30 min			

Shut Down Emissions*

NOx	lb/1 min	0.044
CO	lb/1 min	0.081
VOC	lb/1 min	0.081
PM10	lb/1 min	
NH3	lb/1 min	

*Since the duration of SD is 1 minute, all emissions are considered normal ops.

SU/SD emissions provided by Wartsila.

Startup Emissions	lb/ first 30 min (cold) per engine	lb/ first 30 min (warm) per engine	lb/ first 30 min (hot)	lb/second 30 min (normal ops)	SU lb/hr (cold)	SU lb/hr (warm)	SU lb/hr (hot)	Sitewide Startup (TPY)
NOx	10.20	5.70	3.50	1.32	11.52	7.02	4.82	16.02
CO	15.20	13.70	11.40	2.45	17.65	16.15	13.85	29.72
VOC	3.30	2.70	2.50	2.94	6.24	5.64	5.44	10.62
PM ₁₀	3.00	3.00	3.00	1.92	4.92	4.92	4.92	8.85
NH ₃ *					2.48			4.47
SO ₂ *					0.09			0.16

*Startup emissions are no higher than normal operation emissions.

Pecos Power Plant Natural Gas Fugitive Emissions

EPNs: NG-FUG1

EPN	Source	Service	Estimated	Emission Factor	VOC	Total		VOC	
	Type		Count	lb/hr	(wt%)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
NG-FUG1	Valves	Gas/Vapor	250	0.00992	0.44%	2.48	10.86	0.01	0.05
	Flanges	Gas/Vapor	0	0.00086		0.00	0.00	0.00	0.00
	Relief Valves	Gas/Vapor	12	0.22930		2.75	12.05	0.01	0.05
	Compressors	Gas/Vapor	0	0.0194		0.0	0.0	0.0	0.0
Totals:						5.23	22.91	0.02	0.10

Calculation Procedure

Short-Term Emission Rate = Count * Emission Factor

Annual Emission Rate = Count * Emission Factor * hours/year / 2,000 lbs/ton

Note

Based on "gas" factors for Oil & Gas Production Operations in TCEQ

Guidance APDG 6422, June 2018

Emissions were estimated based on a non-methane, non-ethane weight fraction of natural gas of 0.44%

APPENDIX B

AGENCY FORMS



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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> 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		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)					
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
<i>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).</i>							
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>			
Pecos Power Plant LLC							
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:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited		
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:			
12. Number of Employees				13. Independently Owned and Operated?			
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant							
15. Mailing Address:	20 Greenway Plaza						
	City	Houston	State	TX	ZIP 77046	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.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Pecos Power Plant								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City	Pecos	State	TX	ZIP	79772	ZIP + 4	
24. County	Reeves							

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

25. Description to Physical Location:	From the Intersection of US Highway 285 and Interstate Highway 20, drive west on IH 20 for 1.3 miles and exit frontage road. from frontage road, turn left on Country Club Road and drive for 2.2 miles. Turn left on Tolivar Street and follow to the plant.							
26. Nearest City					State	Nearest ZIP Code		
<i>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).</i>								
27. Latitude (N) In Decimal:						28. Longitude (W) In Decimal:		
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds
31	22		56		103	28		40
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	3621							
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Electric Generation								
34. Mailing Address:								
	City		State		ZIP		ZIP + 4	
35. E-Mail Address:								
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
() -					() -			

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.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input checked="" type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Kevin Whitenight	41. Title:	Environmental Consultant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 501-6100		() -	kwhitenight@esepartners.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:	ESE Partners LLC	Job Title:	Environmental Consultant
Name (In Print):	Kevin Whitenight	Phone:	(512) 785- 0375
Signature:		Date:	

Form PI-1S
Registrations for Air Standard Permit
(Page 1)
Texas Commission on Environmental Quality

I. Registrant Information
A. Company or Other Legal Customer Name: Pecos Power Plant LLC
B. Company Official Contact Information (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other:) _____
Name: Edward Torres
Title: Senior Manager
Mailing Address: 20 Greenway Plaza Suite 650
City: Houston
State: Texas
ZIP Code: 77046
Telephone No.:
Fax No.:
Email Address: etorres@p-r-energy.com
<i>All permit correspondence will be sent via email.</i>
C. Technical Contact Information (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Other:) _____
Name: Amanda Marcks
Title: Compliance Business Unit Leader
Company Name: ESE Partners LLC
Mailing Address: 400 E. Royal Lane, Building 3, Suite 3
City: Dallas
State: Texas
ZIP Code: 75039
Telephone No.: 469-983-8600
Fax No.:
Email Address: amarcks@esepartners.com
II. Facility and Site Information
A. Name and Type of Facility
Facility Name: Pecos Power Plant
Type of Facility: <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary

Form PI-1S
Registrations for Air Standard Permit
(Page 2)
Texas Commission on Environmental Quality

II. Facility and Site Information (<i>continued</i>)
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 the Intersection of US Highway 285 and Interstate Highway 20, drive west on IH 20 for 1.3 miles and exit frontage road. from frontage road, turn left on Country Club Road and drive for 2.2 miles. Turn left on Tolivar Street and follow to the plant
City: Town of Pecos
County: Reeves
ZIP Code: 79772
C. Core Data Form (required for Standard Permits 6006, 6007, and 6013).
Is the Core Data Form (TCEQ Form 10400) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Customer Reference Number (CN): TBD
Regulated Entity Number (RN): TBD
D. TCEQ Account Identification Number (if known):
E. Type of Action
<input checked="" type="checkbox"/> Initial Application <input type="checkbox"/> Change to Registration <input type="checkbox"/> Renewal <input type="checkbox"/> Renewal Certification
For Change to Registration, Renewal, or Renewal Certification actions provide the following:
Registration Number:
Expiration Date:
F. Standard Permit Claimed:
G. Previous Standard Exemption or PBR Registration Number:
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "Yes," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.

Form PI-1S
Registrations for Air Standard Permit
(Page 3)
Texas Commission on Environmental Quality

II. Facility and Site Information (<i>continued</i>)
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)
PBR 106.478 – Storage Tanks
PBR 106.263 – Maintenance Start up and Shut Down
PBR 106.511 – Portable and Emergency Engines
PBR 106.183 – Fuel Heater
I. Other Air Preconstruction Permits
Are there any other air preconstruction permits at this site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "Yes," enter permit number(s) in the spaces provided below.
J. Affected Air Preconstruction Permits
Does the standard permit directly affect any permitted facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If "Yes," enter permit number(s) in the spaces provided below.
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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> To Be Determined
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved (<i>check all that apply</i>).
<input type="checkbox"/> Initial Application for a FOP <input type="checkbox"/> Significant Revision for a SOP <input type="checkbox"/> Minor Revision for a SOP
<input type="checkbox"/> Operational Flexibility/Off Permit Notification for a SOP <input type="checkbox"/> Revision for a GOP
<input type="checkbox"/> To be Determined <input type="checkbox"/> None
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. (<i>check all that apply</i>)
<input type="checkbox"/> SOP <input type="checkbox"/> GOP <input type="checkbox"/> GOP application/revision (submitted or under APD review) <input type="checkbox"/> N/A
<input type="checkbox"/> SOP application/revision (submitted or under APD review)

Form PI-1S
Registrations for Air Standard Permit
(Page 4)
Texas Commission on Environmental Quality

III. Fee Information (go to www.tceq.texas.gov/epay to pay online)
A. Fee Amount: 900.00
B. Voucher number from ePay: NA
IV. Public Notice (if applicable)
A. Responsible Person (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other:) _____
Name: _____
Title: _____
Company: _____
Mailing Address: _____
City: _____
State: _____
ZIP Code: _____
Telephone No.: _____
Fax No.: _____
Email Address: _____
B. Technical Contact (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No

Form PI-1S
Registrations for Air Standard Permit
(Page 5)
Texas Commission on Environmental Quality

IV. Public Notice (<i>continued</i>) (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? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program? <input type="checkbox"/> Yes <input type="checkbox"/> No
Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy? <input type="checkbox"/> Yes <input type="checkbox"/> No
Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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)? <input type="checkbox"/> Yes <input type="checkbox"/> No
C. Does the company and/or site have an unsatisfactory compliance history? <input type="checkbox"/> Yes <input type="checkbox"/> No
D. Are there any applications currently under review for this standard permit registration? <input type="checkbox"/> Yes <input type="checkbox"/> No
E. Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time? <input type="checkbox"/> Yes <input type="checkbox"/> No
F. Are any of the following actions being requested at the time of renewal: <input type="checkbox"/> Yes <input type="checkbox"/> No
1. Are there any facilities that have been permanently shutdown that are proposed to be removed from the standard permit registration? <input type="checkbox"/> Yes <input type="checkbox"/> No
2. Do changes need to be made to the standard permit registration in order to remain in compliance? <input type="checkbox"/> Yes <input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No
4. Are there any changes to the current emission rates table being proposed? <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>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.</i>
*If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.

Form PI-1S
Registrations for Air Standard Permit
(Page 6)
Texas Commission on Environmental Quality

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):

Projected Start of Operation (provide date):

Length of Time at the Site:

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.

Form PI-1S
Registrations for Air Standard Permit
(Page 7)
Texas Commission on Environmental Quality

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):

Signature (original signature required):

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/.

Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the rule number. The SP forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division web site at:

www.tceq.texas.gov/permitting/air/nav/standard.html.

Most Standard Permits require registration with the commission's Office of Permitting, Remediation, and Registration in Austin. The facilities and/or changes to facilities can be registered by completing a [Form PI-1S](#), "Registration for Air Standard Permit." This checklist should accompany the registration form to expedite any registration review.

CHECK THE MOST APPROPRIATE ANSWERS AND FILL IN THE REQUESTED INFORMATION		
Rule	Questions/Description	Response
116.610(a)(1)	Are there net emissions increases associated with this registration?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	<i>If "YES," will net emission increases of air contaminants from the project, other than those for which a National Ambient Air Quality Standard (NAAQS) has been established, meet the emission limits of § 106.261 or § 106.262?</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<i>If "NO," does the specific standard permit exempt emissions from this limit?</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Attach emissions summary and calculations:		
116.610(a)(3)	Do any of the Title 40 Code of Federal Regulations Part (CFR) 60, New Source Performance Standards apply to this registration?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "YES," list subparts: A, and JJJJ</i>		
116.610 (a)(4)	Do any Hazardous Air Pollutant requirements apply to this registration?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "YES," list subparts:</i>		
116.610 (a)(5)	Do any maximum achievable control technology (MACT) standards as listed under 40 CFR Part 63 or Chapter 113, Subchapter C (National Emissions Standard for Hazardous Air for Source Categories) apply to this registration?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "YES," list subparts: A, ZZZZ, and DDDDD</i>		
116.610(a)(6)	Will additional emission allowances under Chapter 101, Subchapter H, Division 3, Emissions Banking and Trading, need to be obtained following this registration?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
116.611(a)(1-6)	Is the following documentation included with this registration:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Emissions calculations including the basis of the calculations?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Quantification of all emission increases and/or decreases associated with this project?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Sufficient information demonstrating that this project does not trigger PSD or NNSR review?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Description of efforts to minimize collateral emissions increases associated with this project?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Process descriptions including related processes?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	Description of any equipment being installed?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Texas Commission on Environmental Quality
Air Quality Standard Permits
General Requirements Checklist
Title 30 Texas Administrative Code §§116.610-116.615

Rule	Question/Description	Response
116.614	Are the required fee and a copy of the check or money order provided with the application?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
116.615(1)	Will emissions from the facility 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?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
116.615(2)	Do you understand that all representations with regard to construction plans, operating procedures, and maximum emission rates in this registration become conditions upon which the facility will be constructed and operated?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
116.615(3)	Do you understand that all changes authorized by this registration need to be incorporated into the facility's permit if the facility is currently permitted under §116.110 (relating to Applicability)?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>List all related permit numbers:</i>		
116.615(9)617(e)(1)	Will all air pollution emission capture and abatement equipment be maintained in good working order?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
116.615(10)	Will the facility comply with all applicable rules and regulations of the TCEQ, the Texas Health and Safety Code, Chapter 382, and the Texas Clean Air Act?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Save Form

Reset Form

EGU Standard Permit Applicability Summary

(1) Applicability.

Pecos Power Plant LLC is installing reciprocating internal combustion engines (RICE) engines after the effective date of the standard permit. The standard permit is applicable. Boilers are not being installed.

(2) Definitions

Reeves County falls under the definition of the West Texas Region.

(3) Administrative Requirements

- (A) Pecos Power Plant is registering the application using a PI-1S.
- (B) Pecos Power Plant LLC will comply with the emission fee in 30 TAC §116.614.
- (C) Pecos Power Plant LLC will not start construction until approval has been given.
- (D) Pecos Power Plant LLC will maintain all records required (hours of operation, maintenance and stack testing records, and fuel limits information) by the standard permit.
- (E) Rice engines are not subject to NSPS Subpart GG or KKKK.
- (F) The facility is not subject to Chapter 114 and 117. 30 TAC §114.427(b)(3) exempts the engines from any standards in Chapter 114. The site is in Reeves County which has no requirements for Chapter 117.

(4) General Requirements

- (A) NO_x emission from the electric generating unit shall be certified by the manufacturer or by own or operator in pounds per megawatt hour (lb/MWh). Certification will be displayed on the name plate of the unit or on the label attached to the unit.
- (B) The site will not use combined heat and power.
- (C) The engines will combust natural gas which contains no more than 10 grains per 100 dry standard cubic feet.
- (D) The engines are over 10 MW and therefore (4)(D) does not apply.
- (E) The engines may operate over 300 hours a year and will meet 0.14 lb NO_x/MWh with an actual emission rate at 0.13 lb No_x/MWh.
- (F) The electric generating engines will only operate on sweet natural gas.
- (G) Pecos Power Plant LLC will recertify the engines every 16,000 hour or every 3 years.
- (H) Pecos Power Plant LLC will maintain records to comply with the alternative emission standard if operating below 80% load.

Texas Commission on Environmental Quality
Table 29 Reciprocating Engines

I. Engine Data											
Manufacturer: Wartsila		Model No. W18V50SG		Serial No. TBD		Manufacture Date:					
Rebuilds Date:		No. of Cylinders: 18		Compression Ratio: 11.5:1		EPN: IC-1 through IC-12					
Application: <input type="checkbox"/> Gas Compression <input checked="" type="checkbox"/> Electric Generation <input type="checkbox"/> Refrigeration <input type="checkbox"/> Emergency/Stand by <input checked="" type="checkbox"/> 4 Stroke Cycle <input type="checkbox"/> 2 Stroke Cycle <input type="checkbox"/> Carbureted <input checked="" type="checkbox"/> Spark Ignited <input type="checkbox"/> Dual Fuel <input type="checkbox"/> Fuel Injected <input type="checkbox"/> Diesel <input type="checkbox"/> Naturally Aspirated <input type="checkbox"/> Blower /Pump Scavenged <input type="checkbox"/> Turbo Charged and I.C. <input checked="" type="checkbox"/> Turbo Charged <input type="checkbox"/> Intercooled <input type="checkbox"/> I.C. Water Temperature <input checked="" type="checkbox"/> Lean Burn <input type="checkbox"/> Rich Burn											
Ignition/Injection Timing:				Fixed:				Variable:			
Manufacture Horsepower Rating: 25,305 HP						Proposed Horsepower Rating: 18.8 MW					
Discharge Parameters											
Stack Height (Feet)		Stack Diameter (Feet)		Stack Temperature (°F)		Exit Velocity (FPS)					
67		5.33		698		22.4					
II. Fuel Data											
Type of Fuel: <input type="checkbox"/> Field Gas <input type="checkbox"/> Landfill Gas <input type="checkbox"/> LP Gas <input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Digester Gas <input type="checkbox"/> Diesel											
Fuel Consumption (BTU/bhp-hr): 8054				Heating Value: 8053				Lower Heating Value: 7321			
Sulfur Content (grains/100 scf - weight %): Less than 10 (gr/100dscf)											
III. Emission Factors (Before Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
Source of Emission Factors: <input checked="" type="checkbox"/> Manufacturer Data <input checked="" type="checkbox"/> AP-42 <input type="checkbox"/> Other (specify):											
IV. Emission Factors (Post Control)											
NO _x		CO		SO ₂		VOC		Formaldehyde		PM ₁₀	
g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv	g/hp-hr	ppmv
See Map											
Method of Emission Control: <input type="checkbox"/> NSCR Catalyst <input checked="" type="checkbox"/> Lean Operation <input type="checkbox"/> Parameter Adjustment <input type="checkbox"/> Stratified Charge <input type="checkbox"/> JLCC Catalyst <input checked="" type="checkbox"/> Other (Specify): SCR and Oxidation Catalyst											
<i>Note: Must submit a copy of any manufacturer control information that demonstrates control efficiency.</i>											
Is Formaldehyde included in the VOCs?										<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
V. Federal and State Standards (Check all that apply)											
<input checked="" type="checkbox"/> NSPS JJJJ <input checked="" type="checkbox"/> MACT ZZZZ <input type="checkbox"/> NSPS IIII <input type="checkbox"/> Title 30 Chapter 117 - List County: _____											
VI. Additional Information											
1. Submit a copy of the engine manufacturer's site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable).											

Reset Form

Print Form

**Table 1(a) Emission Point Summary
Air Contaminant Data (Page 1)
Texas Commission on Environmental Quality**

Date:	Permit No.:	Regulated Entity No.:	Area Name:	Customer Reference No.:
11/22/2024	TBD	TBD	Pecos Power Plant	TBD

EPN	FIN	Name	Component or Air Contaminant Name	Air Contaminant Emission Rate lb/hr	Air Contaminant Emission Rate TPY
IC-1 through IC-12	IC-1 through IC-12	Individual Emission Limits for the 12-Wartsila 18V50SG engines.	VOC	4.95	
			VOC (MSS)	6.24	
			NOx	2.46	
			NOx (MSS)	11.52	
			CO	4.99	
			CO (MSS)	17.65	
			SO2	0.12	
			PM10	3.09	
			PM10 (MSS)	4.92	
			PM2.5	2.06	
			PM2.5 (MSS)	4.92	
			NH3	2.02	
IC-1 through IC-12	IC-1 through IC-12	Emission Cap for IC-1 through IC-12	VOC		144.27
			VOC MSS		
			NOx		82.44
			NOx (MSS)		
			CO		164.45
			CO (MSS)		
			SO2		3.24
			PM10		94.98
			PM10 (MSS)		
			PM2.5		55.62
			NH3		45.40
NGFUG	NGFUG	Natural Gas Fugitives	VOC	0.02	0.05

APPENDIX C
DATA AND EQUIPMENT SHEETS
LOCATED IN CONFIDENTIAL APPLICATION