# Air Quality Standard Permit for Electric Generating Units Application

# HEB 00811 - EGUs Manor, Travis County, Texas

CN606225175

Submitted by: Enchanted Rock LLC

September 2024



ENCHANTED ROCK The Power is On.

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### **SECTION 1 - INTRODUCTION**

Enchanted Rock LLC (Enchanted Rock) is providing this registration to the Texas Commission on Environmental Quality (TCEQ) to authorize the construction and operation of an electric generating facility under Standard Permit number 6005. Enchanted Rock is filing this registration pursuant to the requirements in Texas Administrative Code (TAC) Title 30, Chapter 116, Subchapter F.

#### **1.1 Facility Information**

Enchanted Rock is proposing to build and operate the HEB 00811 - EGUs Plant (HEB00811) in Manor, Travis County, Texas. HEB00811 will serve as a backup power source for HEB and will produce and sell electricity to the grid during peak times. This standard permit registration is to authorize HEB00811 to produce and sell electricity from 3 natural gas-powered spark ignition reciprocating engines operated year-round.

The proposed HEB00811 Plant will be located at 12000 E US 290 HWY WB in Manor, TX, 78653.

#### **1.2 Application Contents**

This application is organized into the following sections:

- Section 1.3 contains the TCEQ Core Data Form and form PI-1S. The registration fee has been paid electronically using TCEQ's ePay system.
- Section 2 contains the HEB00811 area map and plot plan.
- Section 3 provides the process description and process flow diagram.
- Section 4 discusses the air emissions for the project.
- Section 5 provides the air impacts analysis.
- Section 6 discusses the regulations applicable to the standard permit registration.
- Appendix A provides the emission rate estimate calculations.
- Appendix B provides the manufacturer's data sheets.
- Appendix C provides TCEQ Table 29.

#### **1.3 TCEQ Application Forms**

This section contains the following completed forms and documentation as required for the Standard Permit registration:

- TCEQ Core Data Form, and
- TCEQ Form PI-1S Registrations for Air Standard Permit, and
- Copy of Fee Payment Voucher.



# **TCEQ** Core Data Form

For detailed instructions regarding completion of 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 Pe	rmit, Regi	stration or Authoriz	zation (Core D	ata Fo	rm should b	e subm	itted witl	h the pr	ogram applic	ation.)	
Renewal (Core Data Form should be submitted with the renewal form)     Other											
2. Customer	Reference	ce Number <i>(if iss</i>	ued)		w this link to		3. Re	gulated	I Entity Refe	rence Number	(if issued)
	CN 606225175										
		tomer Infor									
4. General Customer Information         5. Effective Date for Customer Information Updates (mm/dd/yyyy)											
New Cus	tomer		<u>□</u> ι	Jpdate	to Custome	er Inform	nation		Chang	e in Regulated	Entity Ownership
Change ir	h Legal Na	me (Verifiable wit	n the Texas S	ecretar	y of State o	r Texas	Comptr	oller of	Public Accou	nts)	
The Custo	omer Na	me submitted	here may l	be up	dated au	tomati	ically <b>k</b>	based	on what i	s current an	nd active with th
Texas Sec	retary o	of State (SOS)	or Texas C	ompt	roller of F	Public	Ассои	ınts (C	CPA).		
6. Customer	Legal Na	<b>ime</b> (If an individual	, print last name	e first: e	g: Doe, John	)	<u>lf n</u>	ew Cusi	tomer, enter p	revious Custom	er below:
7. TX SOS/C	PA Filing	Number	8. TX State	Tax ID	(11 digits)		9.	Federal	Tax ID (9 digi	ts) 10. DUN	S Number (if applicable
11. Type of Customer: Corporation				🗌 Indivi	dual	Partnership: 🗖 General			eneral 🗌 Limited	Limited	
Government:	City	County 🗌 Federal	] State 🗌 Other		Sole	Propriet	orship		Other:		
12. Number				_						ned and Opera	ated?
0-20	21-100	101-250	251-500		501 and hig	her		Yes		No	
14. Custome	er Role (P	roposed or Actual) -	as it relates to	the Reg	gulated Entity	listed or	n this form	n. Pleas	e check one of	the following:	
Owner	onal Licens		Operator nsible Party				ner & O nup App	•	⊡Othe	ır:	
		Vine Street, S	•								
15. Mailing	1115	ville bereet, e									
Address:	0:4	II. de l					710	7700	<u></u>	710 . 4	
	City	Houston		51	tate TX		ZIP	7700		ZIP + 4	
16. Country	Mailing Ir	nformation (if outsi	de USA)			17. E	-Mail A	ddress	(if applicable)		
18. Telephor	ne Numbe	er		19. Ex	tension or	Code			20. Fax Nur	nber (if applica	ble)
<u>, ,</u>		gulated Ent	ity Infor	mati	on				,		
						selected	helow t	his form	n should be a	ccompanied by	a permit applicatior
New Reg	-	-	o Regulated E	-	-				Entity Informa		a porme approation
		submitted may be u				· ·			· ·		is Inc, LP, or LLC.)
22. Regulate	d Entity N	lame (Enter name o	of the site where	e the reg	gulated action	n is takin	g place.)				
HEB 00811	- EGUs										

23. Street Address of the Regulated											
Entity:											
(No PO Boxes)	City		5	State			ZIP			ZIP + 4	
24. County	Travis										
	[	Enter Ph	ysical l	Location I	Descrip	tion if no s	street ad	dress i	s provided.		
25. Description to Physical Location:	12000	E US 290	HWY	WB							
26. Nearest City								State			P Code
Manor								ΤХ		7	8653
27. Latitude (N) In I	Decimal:	30.20542	27			28. Longi	tude (W)	) In D	ecimal:	- 97.31170	89999999993
Degrees	Minutes		Second	ls		Degrees			Minutes		Seconds
29. Primary SIC Coo	de (4 30. digi	. Secondary	SIC C	Code (4	<b>31. Pri</b> digits)	imary NAIC	CS Code	(	5 or 6 <b>32. Se</b> (5 or 6 d	condary NAIC	S Code
4911					2211	12					
33. What is the Prim	ary Busin	ess of this en	tity?	(Do not repe	at the SI	C or NAICS de	scription.)				
Electric Power			,	. ,			. ,				
	1113	Vine Street,	, Ste 1	01							
34. Mailing											
Address:	City	Housto	n	State		ТХ	ZIP		77002	ZIP + 4	
35. E-Mail Addres		lelafosse@			k com				,,,,,,		
36. Teleph		_	ciiciia	37. Exte					38. Fax Nu	mber <i>(if applic</i>	able)
· · · ·	12-222								(	) -	
39. TCEQ Programs ar	nd ID Num	bers Check all	Program	ms and writ	e in the	permits/regis	stration nu	umbers t	nat will be affect	ted by the updat	es submitted on this
form. See the Core Data Fo		ions for addition Districts	al guidai		ards Aq	uifer		niccione	Inventory Air		Hazardous Waste
		Districts			alus Ay	ullel		113310113			
Municipal Solid Wa	ste 🖂 l	New Source Rev	view Air		SF		□ Pe	troleum	Storage Tank	☐ PWS	
Sludge		Storm Water		Title	V Air		Tir	es		Used Oil	
Voluntary Cleanup		Waste Water		🗌 Was	stewater	Agriculture	U Wa	ater Righ	ts	Other:	
<u>SECTION IV: Pr</u>	<u>eparei</u>	r Informa	ation	<u>l</u>							
40. Name:         Taylor DeLaFosse         41. Title:         Environmental Compliance Manager											
42. Telephone Number     43. Ext./Code     44. Fax Number     45. E-Mail Address											
713 – 412 - 2225         ( ) -         ddelafosse@enchantedrock.com											
SECTION V: Authorized Signature											
46. By my signature b have signature authori numbers identified in f	ty to subm										
_		Rock LLC				Job Tit	اما	Enviro	nmental Con	npliance Mar	ager

Company:	Enchanted Rock LLC Job Title: Environ			imental Compliance Manager		
Name(In Print) :	Taylor DeLaFosse			Phone:	713-412-2225	
Signature:	Signed Electronically via STEERS			Date:		

I. Registrant Information					
A. Company or Other Legal Cus	tomer Name:				
Enchanted Rock LLC					
B. Company Official Contact Info	ormation (🖂 Mr.	. 🗌 Mrs. 🗌 Ms. [	Other:)		
Name: Taylor DeLaFosse					
Title: Environmental Compliance	Manager				
Mailing Address: 1113 Vine Street	, Ste 101				
City: Houston	State: TX		ZIP Code: 77002		
Phone: 713-412-2225		Fax:	I		
E-mail Address: ddelafosse@enc	hantedrock.co	m			
All permit correspondence will be s	ent via e-mail.				
C. Technical Contact Information	n (🖄 Mr. 🗌 Mr	s. 🔄 Ms. 🔄 Othe	er:)		
Name: Taylor DeLaFosse					
Title: Environmental Compliance	Manager				
Company Name: Enchanted Rock	( LLC				
Mailing Address: 1113 Vine Street	t, Ste 101				
City: Houston	State: <b>TX</b>		ZIP Code: 77002		
Phone: <b>713-412-2225</b>		Fax:			
E-mail Address: ddelafosse@enchantedrock.com					
II. Facility and Site Information					
A. Name and Type of Facility					
Facility Name: HEB 00811 - EGUs					
Type of Facility:					
For portable units, please provide t	he serial numbe	r of the equipmer	nt being authorized below.		
Serial No:		Serial No:			

II. Facility and Site Informatio	n (continued)						
B. Facility Location Information							
Street Address: 12000 E US 290 HV	Street Address: 12000 E US 290 HWY WB						
	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).						
	1						
City: Manor	County: Travis	1	ZIP Code: 78653	3			
Latitude (nearest second): <b>30.20542</b>	7	Longitude (neares	st second): <b>-97.31</b>	1708999999993			
<b>C.</b> Core Data Form ( <b>required</b> for	Standard Permits 6	6004, 6006, 6007,	6008, and 6013).				
Is the Core Data Form (TCEQ Form	10400) attached?			S 🗌 NO			
If "NO," provide customer reference	number (CN) and ı	regulated entity nur	mber (RN) below.				
Customer Reference Number (CN):	CN606225175						
Regulated Entity Number (RN):							
D. TCEQ Account Identification N	umber (if known):						
E. Type of Action:							
🖂 Initial Application 🛛 🗌 Change	e to Registration	🗌 Renewal	🗌 Renewa	I Certification			
For Change to Registration, Renewa	al, or Renewal Cert	ification actions pro	ovide the followin	g: <b>N/A</b>			
Registration Number:	E	xpiration Date:					
F. Standard Permit Claimed: 600	95 – Air Quality St	andard Permit for	Electric Genera	ting Units			
<b>G.</b> Previous Standard Exemption	or PBR Registratio	n Number					
Is this authorization for a change to an existing facility previously authorized under a Standard exemption or PBR?							
If "YES," enter previous standard exemption number(s) and PBR registration number(s), and associated effective date in the spaces provided below.							
Standard Exemption and PBR Registration Number(s)			Effective Date				

II. Facility and Site Informatio	n (continued)					
H. Other Facilities at this Site Auth	H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit					
Are there any other facilities at this s Exemption, PBR, or Standard Permi		rized by an Air Stan	dard	🗌 YES 🖾 NO		
If "YES," enter standard exemption n number(s), and associated effective			), and Standard	Permit registration		
Standard Exemption, PBR Registrati	ion, and Standard	Permit Registration	Number(s)	Effective Date		
I. Other Air Preconstruction Perm	nits					
Are there any other air preconstruction	on permits at this	site?		🗌 YES 🖾 NO		
If "YES," enter permit number(s) in th	ne spaces provide	ed below.				
J. Affected Air Preconstruction Pe	ermits					
Does the standard permit directly aff	ect any permitted	facility?		🗌 YES 🖾 NO		
If "YES," enter permit number(s) in the	ne spaces provide	ed below.				
K. Concrete Batch Plant						
🗌 Central Mix 🛛 Ready Mix 🗌	Specialty Mix	Enhanced Contr	ols for Concrete	Batch Plants		
1. State Legislators						
State Senator:						
State Representative:						
2. County Judge						
Name:						
Mailing Address:						
City:	State:		ZIP Code:			

II. Facility and Site Information <i>(continued)</i>						
K. 3. Presiding Officer						
Is the facility located in a municipality or extraterritorial jurisdiction of a municipality? 🗌 YES 🗌	] NO					
If "YES," list the name of the Presiding Officer for the municipality and/or extraterritorial jurisdiction:						
Presiding Officer Name:						
Title:						
Mailing Address:						
City: State: ZIP Code:						
L. Federal Operating Permit (FOP) Requirements						
Is this facility located at a site that is required to obtain an FOP 🗌 YES 🖾 NO 🗌 To Be Dete pursuant to 30 TAC Chapter 122?	ermined					
If the site currently has an existing FOP, enter the permit number: <b>N/A</b>						
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is ap <i>all that apply).</i>	proved ( <i>check</i>					
☐ Initial Application for an FOP ☐ Significant Revision for an SOP ☐ Minor Revision	for an SOP					
Operational Flexibility/Off Permit Notification for an SOP     Revision for a G	GOP					
□ To be Determined						
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. <i>(check all that apply)</i>						
GOP GOP GOP application/revision (submitted or under APD rev	/iew)					
☑ N/A       □ SOP application/revision (submitted or under APD review)						
<b>III. Fee Information</b> (see Section IX. for address to send fee or go to <u>www.tceq.texas.gov/epay</u> to pay online)						
A. Fee Amount: \$900						
B. Payment Information						
Check/money order/transaction or voucher number: TCEQ ePay Voucher						
Individual or company name on check: Enchanted Rock						
Was fee paid online?	ES 🗌 NO					

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IV. Public Notice (if applicable)						
A. Responsible Person ( Mr. Mrs. Ms. Other:)						
Name:						
Title:						
Company:						
Mailing Address:						
City:	State:		ZIP Code:			
Phone:		Fax No.:				
E-mail Address:						
B. Technical Contact ( Mr. 🗌 N	Mrs. 🗌 Ms. 🗌 Oth	er):				
Name:						
Title:						
Company:						
Mailing Address:	-					
City:	State:		ZIP Code:			
Phone No.:		Fax No.:				
E-mail Address:						
C. Bilingual Notice						
Is a bilingual program required by the Texas Education Code in the School District?						
Are the children who attend either the elementary school or the middle school closest to YES NO your facility eligible to be enrolled in a bilingual program provided by the district?						
If "YES," list which language(s) are required by the bilingual program?						

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IV.	Public Notice (if applicable) (continued)						
D.	. Small Business Classification and Alternate Public Notice						
	Does this company (including parent companies and subsidiary companies) have fewe than 100 employees or less than \$6 million in annual gross receipts?						
Is th	Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program?						
	Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy?						
	Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy?						
E.	For Concrete Batch Plants						
1.	Public Works Project: Will the plant provide concrete to a public works project, and be located in or contiguous to the right of-way of the public works project? (If "YES," public notice is not required.)						
2.	2. Application in Public Place						
Nam	e of Public Place:						
Phys	ical Address:						
City:		County:					
V.	Renewal Certification Option						
Α.	• 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?						
В.	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)?						
C.	C. Does the company and/or site have an unsatisfactory compliance history?						
D.	Are there any applications currently under review for this sta	ndard permit registration?					
E.	Are scheduled maintenance, startup, or shutdown emission in the standard permit registration at this time?	ns required to be included	□ YES □ NO				

Note: This registration is an initial registration and not for the renewal of an existing registration. Therefore, this section does not apply.

#### (Page 7)

V.	Renewal Certification Option (continued)							
F.	Are any of the following actions being requested at the time of renewal:	YES NO						
1.	removed from the standard permit registration?							
2.	Do changes need to be made to the standard permit registration in order to remain in compliance?							
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						
optic	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 <b>cannot</b> be used.							
	otice is applicable and comments are received in response to the public notice, the a ify for the renewal certification option.	pplication does not						
VI.	Technical Information Including State and Federal Regulatory Requirements							
<b>Place a check next to the appropriate box to indicate what you have included in your submittal.</b> 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.								
А.	Standard Permit requirements (Checklists are optional; however, your review you provide applicable checklists.)	will go faster if						
	you demonstrate that the general requirements in 30 TAC Sections 116.610 and 615 are met?	YES 🗌 NO						
Did y are r	you demonstrate that emission limitations in 30 TAC Sections 106.261 and 106.262 net?	☐ YES ☐ NO (Not Applicable)						
Did y met?	you demonstrate that the individual requirements of the specific standard permit are	🛛 YES 🗌 NO						
В.	Confidential Information (All pages properly marked "CONFIDENTIAL")	🛛 YES 🗌 NO						
C.	Process Flow Diagram							
D.	Process Description							
E.	Maximum Emissions Data and Calculations							
F.	Plot Plan							

TCEQ-10370 (APDG 5235v27, Revised 03/18) PI-1S This form is for use by facilities subject to air quality permit requirements

and may be revised periodically.

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#### VI. Technical Information Including State and Federal Regulatory Requirements (continued)

#### 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.

**G.** Projected Start Of Construction Date, Start Of Operation Date, and Length of XES NO Time at Site:

Projected Start of Construction (provide date): **10/1/2024** 

Projected Start of Operation (provide date): **TBD** 

Length of Time at the Site: **N/A** 

#### 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 Web site at: <a href="https://www.tceq.texas.gov/agency/delin/index.html">www.tceq.texas.gov/agency/delin/index.html</a>.

#### 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): **Taylor DeLaFosse**

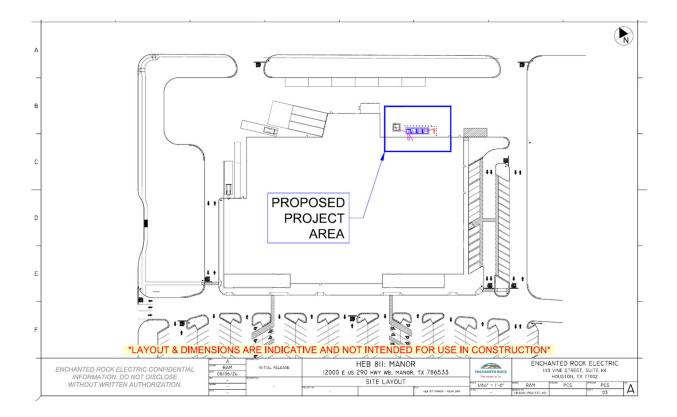
Signature (original signature required): Signed Electronically via STEERS

Date:

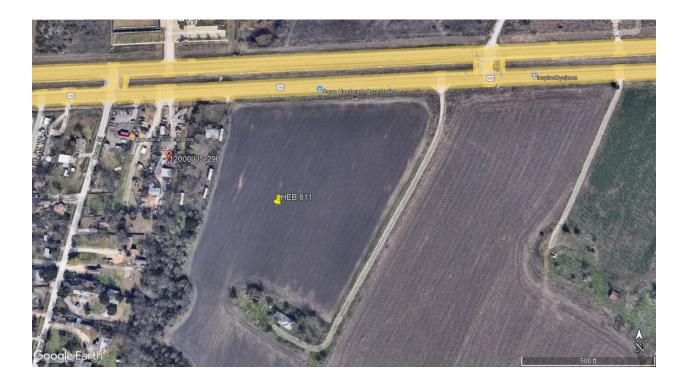
### **Copy of Payment Fees**

Standard Permit registration fee payment and registration submittal were made via STEERS.

Site layout and aerials showing the location of the HEB00811 are included as Figures 2-1 and Figure 2-2.



### Figure 2-1 Zoomed In Aerial



### Figure 2-2 Zoomed Out Aerial



The HEB00811 Plant is an electric generating power plant that will burn natural gas in spark ignition reciprocating engines to produce electricity. The proposed plant will operate as a peaking power plant and will also provide backup power to HEB located adjacent to the HEB00811 Plant.

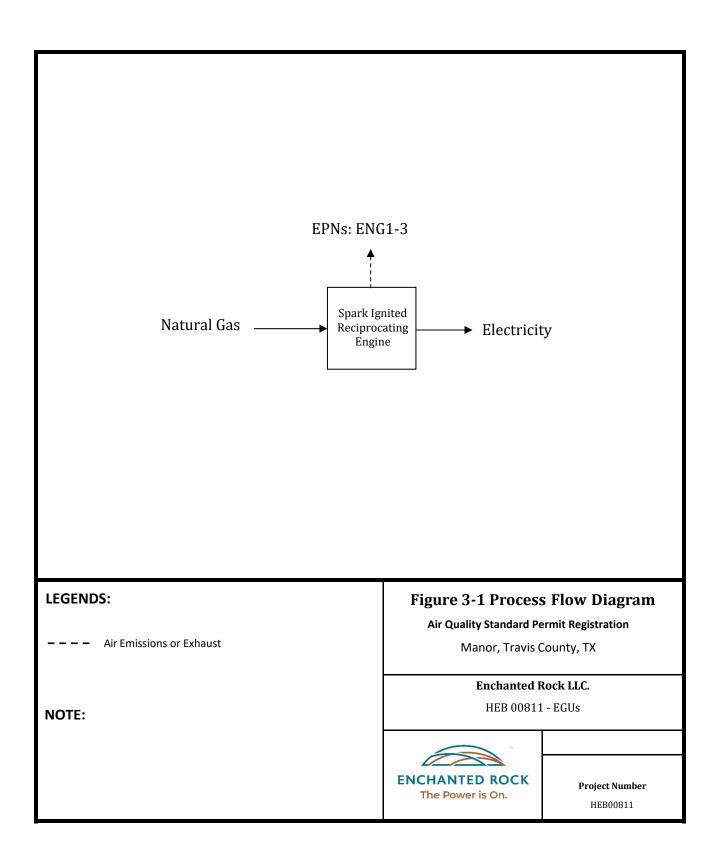
The HEB00811 Plant will only use sweet natural gas, which will be piped onto the site.

Start-up and shutdown activities will not be included in the MSS emissions. The spark ignition reciprocating engines are peaking generators and it is in the intention of the site's operation to experience constant start-up and shutdown. Therefore, the emissions from start-up and shutdown activities are accounted for in the emission factors provided in the manufacturer's data for normal operating emissions.

Figure 3-1 presents the process flow diagram depicting the basic process description outlined above.

#### 3.1 Maintenance Activities

Emissions from planned maintenance activities, including routine oil changes will be authorized under Permit by Rule or will be considered de minimis.



This section describes the air emission calculation methodologies used to estimate hourly and annual emission rates for the facilities and activities represented in this standard permit registration. Detailed emission rate estimate calculations are confidential and provided in the tables located in Appendix A which is submitted under a separate confidential cover. The following discussion is limited to a general description of the calculation methodology and a summary of key assumptions and calculation basis data.

Emissions of air contaminants are estimated for each facility using vendor's anticipated emission rate estimates, mass balance calculations, and emission factors appropriate to the facility type from the Environmental Protection Agency's (EPA's) "Compilation of Air Pollutant Emission Factors" (AP-42).

#### 4.1 Spark Ignited Reciprocating Internal Combustion Engines

The SI RICE at HEB00811 are fired with sweet natural gas. Products of combustion from the engines include the following criteria and non-criteria pollutants: NO<sub>X</sub>, CO, VOC, sulfur dioxide (SO<sub>2</sub>), particulate matter with diameters less than 10 microns ( $PM_{10}$ ), and particulate matter with diameters less than 2.5 microns ( $PM_{2.5}$ ). Table 4-1 provides a summary of the short-term and annual emission rates for each engine and total sitewide emissions.

NO<sub>x</sub> emissions are estimated using the manufacturer guaranteed emission factors and emission requirements in the Standard Permit.

VOC and CO emissions are conservatively estimated using the manufacturer guaranteed emission factors and the emission standards in Table 1 to NSPS Part 60 Subpart JJJJ and EPA's AP-42, Table 3.2-3.

 $PM_{10}$ ,  $PM_{2.5}$ , and  $SO_2$  emissions are estimated using emission factors in EPA's AP-42, Table 3.2-3 and the maximum heat input to the engine.

Hourly and annual emission calculations for engines 1-3 are provided in Appendix A.

#### 4.1.1 Startup and Shutdown Activities

The spark ignition reciprocating engines are peaking generators and it is in the intention of the sites operation to experience constant start-up and shutdown. Therefore, the emissions from start-up and shutdown activities are accounted for in the emission factors provided in the manufacturer's data for normal operating emissions.

#### 4.2 Maintenance Activities

Maintenance activities conducted at HEB00811 are authorized under 30 TAC 106.263 or are *de minimis* sources of emissions.

HEB00811 Estimated Emissions																
EPN(s) /	VOC		NOx		СО		PM10		PM2.5		<b>SO</b> <sub>2</sub>		HAPs		H <sub>2</sub> S	
Emission Sources	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
ENG1-3 / Engines 1-3	1.04	4.55	0.06	0.28	2.97	13.00	0.05	0.23	0.05	0.23	0.068	0.30	0.17	0.75	-	-
Total Engines	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-	-
Site Total:	3.12	13.65	0.19	0.83	8.90	38.99	0.16	0.70	0.16	0.70	0.21	0.90	0.51	2.24	-	-

 Table 4-1 Emissions Summary

#### **SECTION 5 - IMPACTS ANALYSIS**

This section summarizes the air quality impacts analysis that was conducted for the HEB00811 Plant. The site-wide emissions from the plant were compared against de minimis emission limits in 30 TAC 106.352(k)(3)(C). Table 5-1 shows the HEB00811 Plant's proposed emissions are below the de minimis rates and a full impact review is not required.

Air Contaminant	De Minimis Emission Rates <sup>a</sup> (lb/hr)	Project Emissions (lb/hr)	Full Impact Review Required?
H <sub>2</sub> S	0.025	0.00	Impacts Review Not Required
SO <sub>2</sub>	2	0.21	Impacts Review Not Required
NOx	4	0.19	Impacts Review Not Required

**Table 5-1 NAAQS Compliance Impacts Evaluation** 

<sup>a</sup> *de minimis* emission rates per 30 TAC 106.352(k)(3)(C).

This section presents information demonstrating how Enchanted Rock's proposed HEB00811 Plant will be in compliance with all rules and regulations of the TCEQ and the intent of the Texas Clean Air Act (TCAA), including applicable sections of 30 TAC §116. Subchapter F and the Standard Permit for Electric Generating Units. Each requirement is listed below (in italicized text) followed by a discussion of how the site meets the respective requirement.

6.1 State Regulatory Applicability

#### **30 TAC Chapter 101, Subchapter A – General Rules**

§101.2 Multiple Air Contaminant Sources or Properties –

Enchanted Rock does not intend to petition the TCEQ to have its property designated as a single property with any other property for the purposes of demonstrating compliance with TCEQ regulations and the control of air emissions.

§101.3 Circumvention -

Enchanted Rock intends to operate the facilities in accordance with the representations made in this air quality standard permit application.

§101.4 Nuisance -

Enchanted Rock will not discharge air contaminants in such concentration and of such duration that they will or may tend to be injurious to or adversely affect human health or welfare, animal life, vegetation, or property, or interfere with the normal use and enjoyment of animal life, vegetation, or property.

§101.5 Traffic Hazard -

No discharge of air contaminants, uncombined water or other materials from the project will cause or have a tendency to cause a traffic hazard or an interference with normal road use.

§101.8 Sampling -

All stack testing and sampling will meet requirements in §101.8 and data will be maintained and reported as required.

#### §101.9 Sampling Ports -

Enchanted Rock will comply with TCEQ requests regarding the location of sampling ports as required by §101.9.

§101.10 Emission Inventory Requirements -

Enchanted Rock will comply with all applicable TCEQ emission inventory requirements.

§101.20 Compliance with Environmental Protection Agency Standards -

As discussed below, Enchanted Rock will comply with the applicable New Source Performance Standards (40 CFR 60). HEB00811 is not subject to the National Emission Standards for Hazardous Air Pollutants under 40 CFR 61 or 40 CFR 63, and is not subject to federal prevention of significant deterioration review. *§101.21 The National Primary and Secondary Ambient Air Quality Standards –* **Enchanted Rock will comply with all National Ambient Air Quality Standards.** 

§101.24 Inspection Fees –

The HEB00811 Plant is not subject to an inspection fee.

§101.27 Emission Fees -

The HEB00811 Plant is not required to obtain a federal operating permit and therefore is not required to submit an emission fee.

**30 TAC Chapter 101, Subchapter F – Emissions Events and Scheduled Maintenance, Startup, and Shutdown Activities** 

§101.201 Emissions Event Reporting and Recordkeeping Requirements -

Enchanted Rock will follow the notification, recordkeeping and reporting requirements in §101.201, should a reportable emissions event as defined in §101.1, occur.

§101.211 Scheduled MSS Reporting and Recordkeeping Requirements -

Enchanted Rock will comply with the MSS reporting and recordkeeping requirements in §101.211 applicable to the sources in this registration.

*§101.221-§101.224 Operational Requirements, Demonstrations, and Actions to Reduce Excessive Emissions –* 

Enchanted Rock will comply with the requirements of these sections to the extent that they apply to the sources in this registration.

§101.231-§101.233 Variances –

Enchanted Rock reserves the right to petition for a variance, if necessary, following the procedures in §101.231-§101.233.

#### 30 TAC Chapter 101, Subchapter H – Emissions Banking and Trading

The HEB00811 Plant is located in Travis County, which is not an affected county by the Mass Emissions Cap and Trade Program of Division 3 of this chapter. Division 4 of this chapter, related to Discrete Emission Credits is not applicable to sources in this application. HEB00811 is not a source of HRVOC and is not subject to the requirements in Division 6. In January 2012, the Cross-State Air Pollution Rule (CSAPR) replaced the Clean Air Interstate Rule (CAIR) that Division 7 addresses. Enchanted Rock does not operate the types of facilities subject to Division 7.

#### 30 TAC Chapter 101, Subchapter J - Expedited Permitting

Enchanted Rock is not requesting TCEQ to expedite the processing of this registration.

# **30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter**

§111.111(a) Requirements for Specified Sources -

Enchanted Rock will not allow visible emissions from any source, except as provided in this rule and will comply with all applicable visible emissions requirements.

§111.111(b) Compliance Determination Exclusions -

Enchanted Rock will not use contributions from uncombined water in determining compliance.

§111.111(c) Solid Fuel Heating Devices -

HEB00811 is not located in El Paso or heat solid fuel, therefore this rule is not applicable.

§111.151 Allowable Emission Limits -

The calculated emissions of total suspended particulates from all sources with specific stack flow rates are within the limits specified in §111.151, Table 1. The estimated exhaust flow of greater than 3,000 acfm allows for greater than 6.87 lb/hr of TSP. Each engine stack will not emit greater than 0.05 lb/hr of TSP. The Effective Stack Height based on the equation in §101.151(c) is 26 feet. The Standard Effective Stack Height based on stack affluent flow rates is taken from Table 2. The Standard Effective Stack Height for HEB00811 based on Table 2 is 17.66 feet.

#### 30 TAC Chapter 115, Control of Air Pollution from Volatile Organic Compounds

The HEB00811 Plant does not have any sources identified in Chapter 115. Therefore, these rules do not apply.

#### 30 TAC §116.610 - Standard Permit Applicability

§116.610(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.

#### The following section shows how Enchanted Rock will meet this subchapter.

§116.610(a)(1)– Any project that results in a net increase in emissions of air contaminants from the project other than water, nitrogen, ethane, hydrogen, oxygen, or greenhouse gases (GHGs) as defined in §101.1 of this title (relating to Definitions), 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.

# Per the administrative requirements of the Air Quality Standard Permit for Electric Generating Units, this does not apply.

\$116.610(a)(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.

#### Enchanted Rock will comply with this rule.

§116.610(a)(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).

#### See Section 6.3 for applicability of Federal Regulations.

\$116.610(a)(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.

#### See Section 6.3 for applicability of Federal Regulations.

§116.610(a)(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)).

#### See Section 6.3 for applicability of Federal Regulations.

§116.610(a)(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.

#### The HEB00811 Plant is not subject to the Mass Emissions Cap and Trade Program.

§116.610(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) because of emissions of air contaminants other than greenhouse gases is subject to the requirements of §116.110 of this title (relating to Applicability) rather than this subchapter. Notwithstanding any provision in any specific standard permit to the contrary, any project that constitutes a new major stationary source or major modification which is subject to Subchapter B, Division 6 of this chapter (relating to Prevention of Significant Deterioration Review) due solely to emissions of greenhouse gases may use a standard permit under this chapter for air contaminants that are not greenhouse gases.

#### The HEB00811 Project does not constitute a major source or modification.

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

#### Enchanted Rock will not circumvent applicable requirements.

§116.610(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.

Enchanted Rock does not have an affected source, as described.

#### 30 TAC §116.611 - Registration to Use a Standard Permit

§116.611(a)– If required, registration to use a standard permit shall be sent by certified mail, return receipt requested, or hand delivered to the executive director, the appropriate commission regional office, and any local air pollution program with jurisdiction, before a standard permit can be used. The registration must be submitted on the required form and must document compliance with the requirements of this section, including, but not limited to:

- (1) the basis of emission estimates;
- (2) quantification of all emission increases and decreases associated with the project being registered;
- (3) sufficient information as may be necessary to demonstrate that the project will comply with §116.610(b) of this title (relating to Applicability);
- (4) information that describes efforts to be taken to minimize any collateral emissions increases that will result from the project;
- (5) a description of the project and related process; and
- (6) a description of any equipment being installed.

#### Enchanted Rock will comply with this requirement.

§116.611(b)– Construction may begin any time after receipt of written notification from the executive director that there are no objections or 45 days after receipt by the executive director of the registration, whichever occurs first, except where a different time period is specified for a particular standard permit or the source obtains a prevention of significant deterioration permit for greenhouse gases as provided in §116.164(a) of this title (relating to Prevention of Significant Deterioration Applicability for Greenhouse Gases Sources).

#### Enchanted Rock will comply with this requirement.

§116.611(c)– In order to avoid applicability of Chapter 122 of this title (relating to Federal Operating Permits), a certified registration shall be submitted. The certified registration must state the maximum allowable emission rates and must include documentation of the basis of emission estimates and a written statement by the registrant certifying that the maximum emission rates listed on the registration reflect the reasonably anticipated maximums for operation of the facility. The certified registration shall be amended if the basis of the emission estimates changes or the maximum emission rates listed on the registration reflect the registration no longer reflect the reasonably anticipated maximums for operation of the facility. The certified registration of the facility. The certified registration shall be amended if the basis of the emission shall be submitted to the executive director; to the appropriate commission regional office; and to all local air pollution control agencies having jurisdiction over the site. Certified registrations must also be maintained in accordance with the requirements of §116.115 of this title (relating to General and Special Conditions).

#### Enchanted Rock will comply with this requirement, as applicable.

\$116.611(c)(1) – Certified registrations established prior to December 11, 2002, shall be submitted on or before February 3, 2003.

#### This subpart does not apply.

\$116.611(c)(2) – Certified registrations established on or after December 11, 2002, shall be submitted no later than the date of operation.

#### Enchanted Rock will comply with this requirement, as applicable.

\$116.611(c)(3) – Certified registrations established for greenhouse gases (as defined in \$101.1 of this title (relating to Definitions)) on or after the effective date of EPA's final action approving amendments to \$122.122 of this title (relating to Potential to Emit) into the State Implementation Plan shall be submitted:

- (A) for existing sites that emit or have the potential to emit greenhouse gases, no later than 12 months after the effective date of EPA's final action approving amendments to §122.122 of this title as a revision to the Federal Operating Permits Program; or
- (B) for new sites that emit or have the potential to emit greenhouse gases, no later than the date of operation. Certified registrations established on or after December 11, 2002, shall be submitted no later than the date of operation.

#### Enchanted Rock is not certifying greenhouse gas emissions. This does not apply.

#### 30 TAC §116.615 - General Conditions

§116.615(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 emissions from the HEB00811 Plant will comply with all applicable rules and regulations of the commission.

\$116.615(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 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.

# All representations of construction plans, operating procedures, and maximum emission rates as represented in this application will be complied with. No change shall be made unless properly authorized under §116.110 of this title.

§116.615(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.

This application is not being submitted in lieu of a permit amendment.

§116.615(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.

Start of construction, construction interruptions exceeding 45 days and completion of construction shall be reported to the appropriate regional office no later than 15 days after occurrence of the event.

#### §116.615(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.
- (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.
- (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).

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

# Enchanted Rock will notify the proper agencies of the commencement of operations at the HEB00811 Plant.

§116.615(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.

If sampling of stacks or vents is required, the appropriate regional office and air pollution control agencies having jurisdiction shall be notified. The facility will only use approved sampling and testing procedures and will provide sampling facilities as well as conduct the sampling or contracting with an independent consultant.

§116.615(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.

Any alternatives to emission control, sampling, or other emission tests methods or monitoring that differ from the conditions of the standard permit will be

# authorized by the executive director prior to their use in fulfilling permit requirements.

§116.615(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.

A copy of the standard permit as well as information and data sufficient to demonstrate applicability and compliance with the standard permit shall be maintained at the site or the nearest manned site and made available upon request by representatives of the executive director, the United States Environmental Protection Agency, or air pollution control agencies having jurisdiction.

§116.615(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).

No facilities authorized by this standard permit shall be operated unless all air pollution capture and abatement equipment is maintained in good working order and operating properly. Appropriate notification shall be made in accordance with §101.201 and §101.211 of this title.

§116.615(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.

Enchanted Rock will comply with applicable rules, regulations, and orders of the commission issued in conformity with the Texas Clean Air Act.

§116.615(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.

# No condition of the Air Quality Standard Permit for Electric Generating Units contains distance limitations, setbacks, or buffer zones.

#### 30 TAC Chapter 117, Control of Air Pollution from Nitrogen Compounds

The HEB00811 Plant is not located in an ozone nonattainment area, nor is it located in a county subject to the East Texas Combustion control program. Therefore, the provisions of Chapter 117, Subchapters D and E are not applicable to the HEB00811 Plant, located in Travis County.

#### 30 TAC Chapter 118, Control of Air Pollution Episodes

Enchanted Rock will implement all reasonably available emission reduction methods in the event of a Level I air pollution episode and will comply with the TCEQ directions to reduce or curtail emission rates in the event of a Level II episode.

#### **30 TAC Chapter 122, Federal Operating Permits**

The HEB00811 Plant does not include one or more of the sources listed in §122.120(1), and therefore is not subject to the requirements in Chapter 122.

#### 6.2 Air Quality Standard Permit for Electric Generating Units

#### (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.
- (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.

#### This registration is authorizing electric generating units.

- (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.
  - (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. 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.

- (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.
- (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).
- (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.
- (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.

The HEB00811 Plant is being registered in accordance with section 116.611 with a PI-1S Form. A fee of \$900 accompanies this registration. Written approval will be obtained before construction of the units begins. Applicable records shall be maintained and provided upon request. Gas Turbines do not power the units.

(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.

Each electric generating unit installed will be certified by the manufacturer.

(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...

#### This section does not apply, as heat is not recovered for other processes.

- (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.

#### The fuel will be sweet 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:

East Texas Region:

- (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;

#### NO<sub>x</sub> emissions are certified to be equal to or less than 0.1388 lb/MWh.

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

#### HEB00811 units are less than 10 MW, therefore this section is not applicable.

(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).

#### HEB00811 units will not use the fuel described, therefore this does not apply.

(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 recertification, the unit must operate on the same fuel(s) for which the unit was recertified.

#### Each engine will be re-certified as applicable.

- (H) The NO<sub>x</sub> 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.

#### Enchanted Rock will comply with this section as applicable.

#### 6.3 Federal Regulatory Applicability

A regulatory applicability analysis has been performed for 40 Code of Federal Regulations (CFR) parts 60, 61, and 63. The following sections contain potentially applicable regulations to the HEB00811 Plant, along with how each will be met.

#### 40 CFR Part 60 - Standards of Performance for New Stationary Sources

HEB00811 is subject to the requirements of 40 CFR Part 60 as discussed in the following section.

#### Subpart A – General Provisions

HEB00811 is subject to the requirements in §60.1 for obtaining a permit for affected facilities, §60.7 for notifications and recordkeeping of affected facilities, §60.11 for compliance with standards and maintenance requirements, and §60.19 for general notification and reporting requirements.

Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

HEB00811 is subject to this subpart because the engines on site are certified natural gas burn, non-emergency stationary spark-ignited internal combustion engines with rated hp greater than 500, and manufactured after July 1, 2010. Enchanted Rock will comply with the below specified emission standards and all applicable requirements under this subpart.

Pollutant	Emission Standards (g/Hp hr)	-
NOx	1	
СО	2	
VOC	0.7	

#### 40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants

HEB00811 is not subject to the requirements of 40 CFR Part 61.

#### 40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

HEB00811 does have a stationary reciprocating internal combustion engine on site. HEB00811 will adhere to the requirements in §63.6590(c), which states that compliance is achieved by complying with all applicable requirements of 40 CFR 60 Subpart JJJJ.

### **APPENDIX A – EMISSION RATE CALCULATIONS**

#### **Emissions Calculations – Internal Combustion Engines**

Pages 35-37 of this application contain confidential information and is submitted under a separate Confidential Information Cover.

### **APPENDIX B – MANUFACTURER'S DATA SHEETS**

#### Manufacturer's Data Sheets

Page 39-44 of this application contains confidential information, and is submitted under a separate Confidential Information Cover

### **APPENDIX C – TCEQ TABLE 29**

#### **TCEQ Table 29 – Reciprocating Engines**

Page 46 of this application contain confidential information, and is submitted under a separate Confidential Information Cover