Permit by Rule (PBR) Registration Technical Review

Company:	Gulf Coast Growth Ventures LLC	Registration No.:	175529
Nearest City:	Gregory	Project No.:	370977
County:	San Patricio	Project Type:	Initial
Project Reviewer:	Grace King	Regulated Entity No.:	RN109753731
Unit Name:	Gulf Coast Growth Ventures Project	Customer Reference No.:	CN605632439
PBR No(s).:	106.261, 106.262	Project Received Date:	February 29, 2024
Physical Location:	SOUTH OF HIGHWAY 181 AND WEST OF FM RD 2	986	

Project Overview / Process Description

Gulf Coast Growth Ventures LLC owns and operates the Gulf Coast Growth Ventures Project site located in San Patricio, County. This site is authorized under several permits, including Title V 04169 and NSR 146425.

	Project List									
Project No.	Project Name	Distance to Nearest Receptor (feet):	Description							
1	MOC 2267969	3168	Adds fugitive components to provide debutanizer tower vacuum protection. This change will reduce process safety risks associated will pulling a vacuum on the debutanizer tower. No impacts on process operations including upstream and downstream operations will result from this change.							
2	MOC 2254422 2255804 2255810 2254442	3200	Adding fugitive components to modify existing closed loop pygas sample stations to collect these samples in bottles instead of pressure cylinders. This change will reduce potential personnel exposure concerns for laboratory personnel.							

This project should be incorporated into NSR 146425 at the next amendment or renewal.

Permit by Rule Requirements - 30 TAC Chapter 106 General Requirements

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Registration Fee Reference No.:	Application fee: 693629 / 582EA000599034
Is this registration certified?	Yes
Is planned MSS included in the registration?	No
Are there affected NSR or Title V authorizations for the project?	Yes
NSR and/or Title V authorizations:	NSR 146425 and Title V O4169
If there are affected Title V authorizations, is monitoring being submitted as part o registration?	of this Yes
Are there any upstream or downstream affects associated with this registration?	No
Are associated upstream/downstream emissions either included in the registration current permitted limits with no changes to underlying air authorizations for the ap regarding BACT, health and environmental impacts, or other representations.	
Are emissions for each PBR authorized facility less than the § 106.4(a)(1) limits?	Yes
Are total emissions from all sitewide PBR authorized facilities less than the § 106. OR has the site been subject to public notice requirements?	.4(a)(4) limits, Yes, site has been to public notice for NSR 146425
Are there permit limits on using PBRs at the site?	No
Is the facility in compliance with all other applicable rules and regulations?	Yes
Does the registration include an appropriate PBR workbook, and has the workboo verified?	ok been Yes
Notes:	

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Federal Applicability	
Does this project trigger a PSD or Nonattainment review?	No
Does the Major NSR applicability analysis include all associated upstream and/or downstream emissions?	NA
Are there any applicable standards under NSPS, NESHAP, or NESHAP for source categories (MACT)?	Yes
If Yes, list applicable subparts:	MACT UU and YY
Notes:	

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.261/262 Facilities (Emission Limitations / Emission and Distance Limitations)

• The emission point(s) associated with the facilities or changes to facilities are located at least 100 ft from the nearest off-site receptor. (actual distance: 3,168 feet)

• The total new or increase emissions will comply with the applicable hourly and annual emission limits as represented in the table below.

• NA, no 106.262(a)(4) chemicals are being authorized with this project.

• There are no changes to or addition of any pollution abatement equipment.

• Visible emissions to the atmosphere, from any point or fugitive source, do not exceed 5.0 percent opacity in any six-minute period.

• This registration does not authorize construction or changes to a facility authorized under another section of this chapter or under standard permit.

Notes:

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance histo	ory report was reviewed on:	March 4, 2024
Site rating / classification: 0.00 / High	Company rating / classification:	0.00 / High
Has any action occurred on the basis of the compliance his	story or rating?	No

	106.261	(a)(2)	Emissions
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Project	Chemical	Emi	Emi	Но	Annual	Мее
Name		ssion Threshold (lb/hr)	ssion Threshold (tpy)	urly Emissions (lb/hr)	Emissions (tpy)	ts Threshold?
MOC 2267969	Propylene	6	10	6.10E-04	2.70E-03	Yes
MOC 2267969	Propane	6	10	1.00E-04	4.40E-04	Yes
MOC 2267969	Butane	6	10	9.00E-05	4.00E-04	Yes
MOC 2254422 2255804 2255810 2254442	Refinery Petroleum Fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene	6	10	8.00E-05	3.50E-04	Yes

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	106.26	61(a)(3) Emiss	sions			
Project Name	Chemical	Emi ssion Threshold (lb/hr)	Emi ssion Threshold (tpy)	Ho urly Emissions (Ib/hr)	Annual Emissions (tpy)	Mee ts Threshold?
MOC 2267969	Vinyl acetylene	1	4.38	2.00E-05	8.00E-05	Yes
MOC 2267969	1Butene	1	4.38	4.00E-05	1.70E-04	Yes
MOC 2254422 2255804 2255810 2254442	cyclopentadiene	1	4.38	6.00E-05	2.60E-04	Yes
MOC 2254422 2255804 2255810 2254442	cis 1,3 pentadiene	1	4.38	3.00E-05	1.40E-04	Yes
MOC 2254422 2255804 2255810 2254442	cyclopentene	1	4.38	1.00E-04	4.20E-04	Yes
MOC 2254422 2255804 2255810 2254442	3 methyl 1 butene	1	4.38	2.00E-05	9.00E-05	Yes

106.262(a)(2) Emissions – Table 262

Project Name	Chemical	L Value (mg/m³)	K value (from distance)	E, maximum Hourly Emission Threshold (lb/hr)	Annual Emission Threshold (tpy)	Actual Hourly Increases (Ib/hr)	Actual Annual Increase (tpy)	Meets Threshold?
MOC 2254422 2255804 2255810 2254442	Benzene	3	8	3.75E-01	1.64E+00	8.00E-04	3.50E-03	Yes
MOC 2254422 2255804 2255810 2254442	Styrene	21	8	2.63E+00	5.00E+00	1.20E-04	5.40E-04	Yes

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Project No. 370977

Project Name	Chemical	L Value (mg/m³)	K value (from distance)	E, maximum Hourly Emission Threshold (lb/hr)	Annual Emission Threshold (tpy)	Actual Hourly Increases (Ib/hr)	Actual Annual Increase (tpy)	Meets Threshold?
MOC 2267969	1,3-Butadiene	4.4	8	5.50E-01	2.41E+00	5.60E-04	2.40E-03	Yes
MOC 2254422 2255804 2255810 2254442	1,3-Butadiene	4.4	8	5.50E-01	2.41E+00	2.00E-05	7.00E-05	Yes
MOC 2267969	Toluene	188	8	6.00E+00	5.00E+00	1.40E-04	6.10E-04	Yes
MOC 2267969	Dicyclopentadiene	27	8	3.38E+00	5.00E+00	1.70E-04	7.40E-04	Yes

106.262(a)(2) Emissions - 1997 ACGIH Guide

Total 106.261/262 Combined Emissions

	Total Hourly Emissions (lb/hr)	Total Annual Emissions (tpy)			
Total Emissions:	0.00296	0.01291			

*Additional compounds and specific emission rates are included in the registration file.

Emission Summary

EPN / Emission Source	VOC		C NOx		СО		PM ₁₀		PM 2.5		SO ₂		Other	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
O_FUG / Olefins Unit Fugitives	<0.01	0.01												
TOTAL EMISSIONS (TPY):		0.01												

MAXIMUM OPERATING SCHEDULE: Hours/Year 8,760

*Discrepancies between speciated totals and emission summary table totals is due to rounding.

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03/04/2024

Date

Ms. Grace King Permit Reviewer Rule Registration Section ._____

Michael F. atu

Michael Partee, Manager Rule Registrations Section Air Permits Division Section Manager 03/05/2024

Date