CompanyFlint Hills Resources LlcPermit Number6606CityInglesideProject Number327436CountySan PatricioRegulated Entity NumberRN1002

CountySan PatricioRegulated Entity NumberRN100222744Project TypeAmendmentCustomer Reference NumberCN605721935Project ReviewerAlbert MancillaReceived DateApril 7, 2021

Site Name Ingleside Marine Terminal

### **Project Overview**

Flint Hills Resources Ingleside, LLC (FHR) owns and operates a marine terminal handling crude oil and condensate in Ingleside, Texas. Flint Hills proposed as-built changes to the original permit amendment application dated January 2019 (TCEQ Project Number [No.] 284633) for the Expansion Project to include: crude oil annual throughput increases, calculation and wording corrections, and incorporate Permit by Rule (PBR) 161673.

## **Emission Summary**

Air Contaminan t	Current Allowable Emission Rates (tpy)	Proposed Allowable Emission Rates (tpy)	Change in Allowable Emission Rates (tpy)	Project Changes at Major Sources (Baseline Actual to Allowable)*
PM	6.34	8.54	2.20	2.20
PM <sub>10</sub>	6.34	8.54	2.20	2.20
PM <sub>2.5</sub>	6.34	8.54	2.20	2.20
VOC	128.21	118.39	-15.37	34.54
NO <sub>X</sub>	<mark>19.80</mark>	<mark>26.56</mark>	<mark>8.81</mark>	<mark>6.76</mark>
СО	25.28	34.09	8.81	8.81
SO <sub>2</sub>	35.42	38.12	2.70	38.1
HAPs	1.24	1.16	-0.09	0.22

<sup>\*</sup>Add discussion of netting results if netting is triggered.

## Compliance History Evaluation - 30 TAC Chapter 60 Rules

A compliance history report was reviewed on:	May 19, 2021
Site rating & classification:	0.17 / Satisfactory
Company rating & classification:	0.17 / Satisfactory
Has the permit changed on the basis of the compliance history or rating?	No
Did the Regional Office have any comments? If so, explain.	N/A

#### **Public Notice Information**

inc Notice information		
Requirement	Date	
Legislator letters mailed	4/9/2021	
Date 1st notice published	April 9, 2021	
Publication Name:		

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Requirement	Date	
Pollutants: carbon monoxide, hydrogen sulfide, nitrogen oxides, organic compounds, particulate matter including particulate matter with diameters of 10 microns or less and 2.5 microns or less and sulfur dioxide.		
Date 1 <sup>st</sup> notice Alternate Language published		
Publication Name (Alternate Language):		
1 <sup>st</sup> public notice tearsheet(s) received 05/10/2021		
1 <sup>st</sup> public notice affidavit(s) received		
1 <sup>st</sup> public notice certification of sign posting/application availability received		
SB709 Notification mailed		
Date 2 <sup>nd</sup> notice published		
Publication Name:		
Pollutants:		
Date 2 <sup>nd</sup> notice published (Alternate Language)		
Publication Name (Alternate Language):		
2 <sup>nd</sup> public notice tearsheet(s) received		
2 <sup>nd</sup> public notice affidavit(s) received		
2 <sup>nd</sup> public notice certification of sign posting/application availability received		

## **Public Interest**

Number of comments received	
Number of meeting requests received	
Number of hearing requests received	
Date meeting held	
Date response to comments filed with OCC	
Date of SOAH hearing	

## **Federal Rules Applicability**

Requirement			
Subject to NSF	Subject to NSPS?		
Subparts	&		
Subject to NES	SHAP?		
Subparts	&		
Subject to NESHAP (MACT) for source categories?			
Subparts &			
Nonattainment review applicability:			

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	Requirement
	PSD review applicability:
Title	e V Applicability - 30 TAC Chapter 122 Rules
	Requirement
	Title V applicability:
	The site is subject to Title V [Number].
-	Periodic Monitoring (PM) applicability:
	The site is subject to Title V; therefore, the PM is as follows:
-	Compliance Assurance Monitoring (CAM) applicability:
	The site is subject to Title V; therefore, CAM is as follows:
	The dite is subject to title v, therefore, extin is as follows.

## **Process Description**

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The terminal receives crude oil and condensates by pipeline and marine vessel, and stored in internal floating roof (IFR) or external floating roof (EFR) storage tanks. Other types of refined fuel products can be stored in the storage tanks. However, the current project will not modify the annual throughput of additional materials.

The material is stored in the storage tanks until required by the customer. The material is transferred via marine vessels. The marine vessels are control by one of three marine loading vapor combustion units (VCUs).

#### **Project Scope**

The following changes are being made as part of this amendment:

- Correct tank calculations.
- Remove storage tanks 28091, 28092, 28063, 28064, 28070
- Increase hourly throughput to storage tanks and marine loading dock
- Increase annual throughput to marine loading dock
- Correction of number of new fugitive piping components
- Implementation of 28VHP LDAR monitoring program
- Addition of existing SO<sub>2</sub> emissions at the MVCUs
- Decrease of annual averaging H₂S concentration in the crude oil and condensate loaded at the dock from 19 to 15 ppmw based on sampling of H₂S in the crude oil

Item No.	Current CND	Draft CND	Draft Changes (Note: The changes described do not take effect until the issuance of permit associated with Project No.327436.)

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Best Available Control Technology

Source Name	EPN	Best Available Control Technology Description	
IFR Storage Tanks	TK-28067, TK-28070R & TK-28077	Equipped with a mechanical seal primary seal and rime mour secondary seal. The exterior surface are uninsulated and painted white. Material stored is less than 11.0 pound per square inch atmosphere (psia).	
EFR Storage Tanks	TK-28068, TK-28069, TK-28071, TK-28072, TK-28073, TK-28074, TK-28076, TK-28080 & TK-28066	Equipped with a mechanical shoe primary seal and rim mounted secondary seal, and gasketed slotted guide poles with floats, pole wipers and pole sleeves. The exterior surface are uninsulated and painted white. Material stored is less than 11.0 psia.	
Marine VCU	MVCU1-3	The VCUs meet a 99-percent VOC destruction efficiency cor (DRE). The site maintains maintain good combustion practices including monitoring the combustion chamber temperature and perform an initial operation stack test. F SO <sub>2</sub> and particulate matter emissions are minimizing throvia sampling H <sub>2</sub> S concentration of the crude oil feed upstream and using natural gas fuel (5 grains of sulfur/100dscf).	
Ships		99-percent capture efficiency. Route to MVCUs when loading VOC with a true vapor pressure (TVP) of 0.5 psia. Vessels are required to pass annual vapor tightness test and adhere to AVO checks and monitoring requirements per <i>Marine Terminal Guidance</i> dated September 21, 2021.	
Barges	DOCK	100-percent capture efficiency with vacuum. Route to MVCUs when loading VOC with a true vapor pressure (TVP) of 0.5 psia. Vessels are required to pass annual vapor tightness test and adhere to AVO checks and monitoring requirements per Marine Terminal Guidance dated September 21, 2021.	
Fugitives	FUG-1	Adhere 28VHP LDAR.	

**Permits Incorporation** 

Permit by Rule (PBR) / Standard Permit / Permit Nos.	· · · · · · · · · · · · · · · · · · ·	Action (Reference / Consolidate / Void)
161673	Storage tank 28070R authorization	Void

## **Impacts Evaluation**

Was modeling conducted?	Type of Modeling:
Is the site within 3,000 feet of any school?	
Additional site/land use information:	

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Reference ADMT memo do	ocument number with	n paragraph explaining no impact	s.
For MERA and Screen, inc	lude table with result	s and brief/condensed explanation	on.
Toxicology Review (if applic	cable), describe Toxi	cology results.	
Project Reviewer Albert Mancilla	Date	Team Leader Samuel Harris	Date