

Permit by Rule (PBR) Registration Technical Review

Company: Motiva Enterprises LLC
Nearest City: Port Arthur
County: Jefferson
Project Reviewer: Camryn Appert
Unit Name: Port Arthur Refinery
PBR No(s): 106.261
Physical Location: 2555 Savannah Ave

Registration No.: 175809
Project No.: 371961
Project Type: Initial
Regulated Entity No.: RN100209451
Customer Reference No.: CN600124051
Project Received Date: March 26, 2024

Project Overview / Process Description

Motiva Enterprises LLC (Motiva) owns and operates the Port Arthur Refinery (PAR) located in Jefferson County, Texas. The site is currently authorized under NSR permits 8404/PSDTX1062M1/PSDTX1534 and 6056/PSDTX1062M3/PSDTX1534, and Title V FOP O1386. This PBR will be incorporated into NSR permit 8404/PSDTX1062M1/PSDTX1534 and 6056/PSDTX1062M3/PSDTX1534 at the next amendment or renewal.

Motiva submitted an annual notification registration under §106.261(a)(7)(B) for calendar year 2023. During 2023, several miscellaneous piping projects were implemented at PAR that required this installation of new piping components. All new components will be tagged and added to the leak detection and repair (LDAR) project implemented at PAR as required by NSR permit 8404 and 6056.

Project List

Project No.	Project Name	Distance to Nearest Receptor (feet):	Description
1	FPH57/57 Pump House Fugitives – Misc piping additions	100	New piping (valves, flanges, and pump seals) was installed at the 57 Pumphouse to address dead leg issues, corrosion issues, or improve maintenance of equipment.
2	FASTU2/WW Collection Oil Recovery – Misc piping additions	100	New piping (valves and flanges) was installed at the Activated Sludge Treatment Unit 2 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
3	FALKY4/ALKY 4 Fugitives – Misc piping additions	100	New piping (valves and flanges) was installed at the Alkylation Unit to address dead leg issues, corrosion issues, or improve maintenance of equipment.
4	CEP-FUG/HTU6 Fugitives – Misc piping additions	100	New piping (valves and flanges) was installed at the Hydrotreating Unit 6 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
5	FCRU4/CRU4 Fugitives – Misc piping additions	100	New piping (valves) was installed at the Continuous Catalytic Reforming Unit 4 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
6	FDCU1/DCU1 Fugitives – Misc piping additions	100	New piping (valves, flanges, and pump seals) was installed at the Delayed Coking Unit 1 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
7	FGR1/FGR1 Fugitives – Misc piping additions	100	New piping (valves and flanges) was installed at the Flare Gas Recovery 1 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
8	FGR2/FGR2 Fugitives – Misc piping additions	100	New piping (valves and flanges) was installed at the Flare Gas Recovery 2 to address dead leg issues, corrosion issues, or improve maintenance of equipment.
9	FFCCU3/FCCU3 Fugitives – Misc piping additions	100	New piping (valves) was installed at the Fluid Catalytic Cracking Unit to address dead leg issues, corrosion issues, or improve maintenance of equipment.
10	CEP-FUG/HCU2 Fugitives – Misc piping additions	100	New piping (valves and flanges) was installed at the Hydrocracking Unit 2 to address dead leg issues, corrosion issues, or improve maintenance of equipment.

***Additional projects are listed in the electronic file.**

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Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 698441 / 582EA000603663
Is this registration certified?	Yes
Is planned MSS included in the registration?	No*
<i>*MSS emissions from fugitive emissions and maintenance are included in permit 6056. MSS emissions will not increase due to this project.</i>	
Are there affected NSR or Title V authorizations for the project?	Yes
NSR and/or Title V authorizations:	NSR permit 8404 and 6056, Title V O1386
If there are affected Title V authorizations, is monitoring being submitted as part of this registration?	No
Are there any upstream or downstream affects associated with this registration?	No
Are associated upstream/downstream emissions either included in the registration OR within current permitted limits with no changes to underlying air authorizations for the applicable units regarding BACT, health and environmental impacts, or other representations.	NA
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 § 106.4(a)(4) limits, OR has the site been subject to public notice requirements? NSR permit 8404 and 6056 have been to public notice.	Yes
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 workbook been verified?	Yes

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: NSPS A, VVa, GGGa; MACT A, CC; NESHAP A, FF	

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.261 Facilities (Emission Limitations)

- (a)(1) The facilities or changes will be located (**Actual: > 100 ft**) from any off-site receptor.
- (a)(2) Total new or increased emissions authorized by this section are below 6.0 pounds per hour (lb/hr) and ten tons per year.
- (a)(3) **N/A**
- (a)(4) There will not be any changes or additions of any existing abatement equipment.
- (a)(5) Visible emissions will not exceed the 5.0 % opacity limit.
- (a)(6)-(7) Notification and all required documentation have been submitted.
- (b) This registration is not for authorization for construction or to change a facility authorized under another section of this chapter or under standard permit.

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on:		March 27, 2024
Site rating / classification:	32.08 / Satisfactory	Company rating / classification: 9.55 / Satisfactory
Has any action occurred on the basis of the compliance history or rating?		No
Did the Regional Office provide site approval and confirm distances?		NA

106.261(a)(2) Emissions

Project Name	Chemical	Em ission Threshold	Em ission Threshold	Ho urly Emissions	Annual Emissions (tpy)	Mee ts Threshold?
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		(lb/hr)	(tpy)	(lb/hr)		
Misc piping modifications	Refinery Petroleum Fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene	6	10	7.60E-01	3.34E+00	Yes

*For simplicity and conservatism, individual projects are combined into this overall project to demonstrate compliance. Each project has its own authorization.

Emission Summary

EPN / Emission Source	VOC		NOx		CO		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
FPH57 / 57 Pump House	0.08	0.36	--	--	--	--	--	--	--	--	--	--	--	--
FASTU2 / WW Collection Oil Recovery	0.03	0.15	--	--	--	--	--	--	--	--	--	--	--	--
FALKY4 / ALKY 4 Fugitives	0.31	1.35	--	--	--	--	--	--	--	--	--	--	--	--
CEP-FUG / HTU6 Fugitives	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--
FCRU4 / CRU4 Fugitives	<0.01	0.02	--	--	--	--	--	--	--	--	--	--	--	--
FDCU1 / DCU1 Fugitives	0.09	0.38	--	--	--	--	--	--	--	--	--	--	--	--
FGR1 / FGR1 Fugitives	<0.01	0.02	--	--	--	--	--	--	--	--	--	--	--	--
FGR2 / FGR2 Fugitives	0.01	0.02	--	--	--	--	--	--	--	--	--	--	--	--
FFCCU3 / FCCU3 Fugitives	<0.01	0.01	--	--	--	--	--	--	--	--	--	--	--	--
CEP-FUG / HCU2 Fugitives	0.04	0.17	--	--	--	--	--	--	--	--	--	--	--	--
FHTU5 / HTU5 Fugitives	<0.01	0.02	--	--	--	--	--	--	--	--	--	--	--	--
FLCDU / LCDU Fugitives	0.06	0.25	--	--	--	--	--	--	--	--	--	--	--	--
CEP-FUG / NPC Fugitives	0.01	0.03	--	--	--	--	--	--	--	--	--	--	--	--
FSPS3 / PS3 Fugitives	0.01	0.03	--	--	--	--	--	--	--	--	--	--	--	--
FVPS2 / FVPS2 Fugitives	0.02	0.10	--	--	--	--	--	--	--	--	--	--	--	--
CEP-FUG / VPS5 Fugitives	0.09	0.38	--	--	--	--	--	--	--	--	--	--	--	--
FWAGS / WAGS Fugitives	0.01	0.03	--	--	--	--	--	--	--	--	--	--	--	--
CEP-FUG / FGP3 Fugitives	<0.01	0.02	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL EMISSIONS (TPY):	--	3.34												
MAXIMUM OPERATING SCHEDULE: Hours/Year														8,760

Camryn Appert

April 9, 2024
Date

Ms. Camryn Appert
Permit Reviewer
Rule Registration Section

Michael Partee

April 10, 2024
Date

Michael Partee, Manager
Rule Registrations Section
Air Permits Division
Section Manager