

**TECHNICAL REVIEW: AIR PERMIT BY RULE**

<b>Permit No.:</b>	166855	<b>Company Name:</b>	TotalEnergies Petrochemicals & Refining USA, Inc.	<b>APD Reviewer:</b>	Guillermo Reyes, P.E.
<b>Project No.:</b>	334561	<b>Unit Name:</b>	Port Arthur Refinery	<b>PBR No(s).:</b>	106.478

GENERAL INFORMATION			
<b>Regulated Entity No.:</b>	RN102457520	<b>Project Type:</b>	Permit by Rule Application
<b>Customer Reference No.:</b>	CN600582399	<b>Date Received by TCEQ:</b>	October 21, 2021
<b>City/County:</b>	Port Arthur, Jefferson County	<b>Date Received by Reviewer:</b>	October 22, 2021
<b>Physical Location:</b>	7600 32nd St		

CONTACT INFORMATION					
<b>Responsible Official/ Primary Contact Name and Title:</b>	Damian Fryoux/ Superintendent Environmental & Assurance	<b>Phone No.:</b>	(409) 985-0017	<b>Email:</b>	DAMIAN.FRYOUX@TOTALENERGIES.COM
<b>Technical Contact/ Consultant Name and Title:</b>	Connie Howard/ Superintendent Environmental & Assurance	<b>Phone No.:</b>	(409) 985-0377	<b>Email:</b>	CONNIE.HOWARD@TOALENERGIES.COM

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Has the PBR fee been paid?	X		Application fee: 535451 / 582EA000454232 Surcharge fee: 535452 / 582EA000454232
Is this registration certified?	X		A PI-7 Cert was submitted.
Is this an APWL site?		X	
Are there any upstream or downstream affects associated with this registration?		X	
Is planned MSS included in the registration?		X	PAR represents that there will no MSS emissions associated with this project.
Are there affected NSR or Title V authorizations for the project?	X		If yes, what is the number(s): NSR permit No. 46396/ Title V permit No. O1267/ PCP No. 166674
Is each PBR > 25/250 tpy?		X	
Are PBR sitewide emissions > 25/250 tpy?	NA		Site has undergone public notice
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	Tank predates NSPS K series
Does NOx Cap and Trade apply to this registration?		X	Thermal oxidizers/control devices are not subject to NOx Cap and Trade.
Is the facility in compliance with all other applicable rules and regulations?	X		

DESCRIBE OVERALL PROCESS AT THE SITE
Totalenergies Petrochemicals & Refining USA Inc owns and operates the Port Arthur Refinery (PAR) in Port Arthur. The Port Arthur Refinery (PAR), TCEQ Account No. JE-0005-H is located in Jefferson County Texas. TotalEnergies' PAR is an integrated petroleum refinery with associated petrochemical operations. Crude oil is delivered to the refinery, then processed and refined into various petrochemical products such as gasoline, diesel, heating oil(s), and aromatics.

DESCRIBE PROJECT AND INVOLVED PROCESS
<p>PAR submitted a certified PBR application to authorize the change of service of VOC Storage Tank No. 807 (EPN 22TANK0807) under 106.478. EPN 22TANK0807 is an internal floating roof tank authorized in NSR Permit 46396.</p> <p>PAR is proposing to change the service of EPN 22TANK0807. With the change of service, PAR will be installing a thermal oxidizer to control the emissions from the internal floating roof tank (EPN 22TANK0807), The thermal oxidizer has been authorized in PCP Standard Permit Registration Number 166674. The emissions for the change of service of tank 22TANK0807 are authorized in the PCP. The site will also maintain the current service and authorization in NSR Permit 46396 at EPN 22TANK0807. This registration and accompanying PCP represent the change of service only and do not serve to replace the authorized alternate service in NSR Permit 46396.</p> <p>The current thermal oxidizer authorized with PCP No. 166674 is a temporary installation. The PCP will be amended to include the details and emissions associated with the permanent thermal oxidizer at a later date. This change of service PBR registration will remain unchanged, even with the installation of a permanent thermal oxidizer.</p> <p>The tank can potentially store various commodities, but the worst case potential of light naphtha with a benzene concentration of 100% was used for the calculation basis. The tank can potentially store a light naphtha with benzene, a C4 mixture, condensates, pyrolysis gasoline, and offspec benzene.</p>

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**TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES**

**§106.478. Storage Tank and Change of Service.**

§106.478(1) Tank is located at least 500 feet away from any recreational area or residence or other structure not occupied or used solely by the owner of the facility or the owner of the property upon which the facility is located.

§106.478(2) The true vapor pressure of product stored is less than 11.0 psia at the maximum storage temperature.

§106.478(3) Tank will be equipped with an internal floating roof and a thermal oxidizer.

§106.478(4) Tank will be used to store a product with a maximum vapor pressure greater than 0.5 psia; therefore, this rule does not apply.

§106.478(5) Tank will be painted white.

§106.478(6) Emissions were calculated by methods specified in the current edition of the US EPA Publication AP-42.

§106.478(7) Tanks is being authorized with Form PI-7CERT.

§106.478(8) Tank will store approved chemicals listed in Table 478.

**ESTIMATED EMISSIONS\***


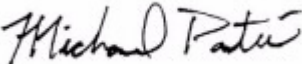
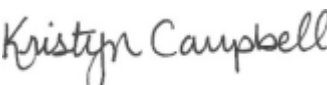
EPN / Emission Source	VOC		NOx		CO		PM <sub>10</sub>		PM <sub>2.5</sub>		SO <sub>2</sub>		Other	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
TEMPTO/Temporary Thermal Oxidizer/ 22TANK0807	0.15	0.67	1.15	5.02	10.73	46.99					<0.01	0.02		
<b>TOTAL EMISSIONS (TPY):</b>		<b>0.67</b>		<b>5.02</b>		<b>46.99</b>						<b>0.02</b>		
<b>MAXIMUM OPERATING SCHEDULE:</b>	<b>Hours/Day</b>		<b>Days/Week</b>		<b>Weeks/Year</b>		<b>Hours/Year</b>		8,760					

\*Emissions are already authorized by PCP No. 166674.

SITE REVIEW/DISTANCE LIMIT	Y	N	Description/Outcome	Date	Reviewed by
Site Review Required?		X	No site review required.	10/23/2021	Guillermo E Reyes
PBR Distance Limits Met?	X		PBR distance limits met.		

**Compliance History Evaluation - 30 TAC Chapter 60 Rules**

A compliance history report was reviewed on:	<b>October 23, 2021</b>
Site rating & classification:	<b>18.05 / Satisfactory</b>
Company rating & classification:	<b>8.70 / Satisfactory</b>
If site was rated unsatisfactory, what action(s) occurred as a result:	<b>NA</b>

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
<b>SIGNATURE:</b>			
<b>PRINTED NAME:</b>	Mr. Guillermo E. Reyes, P.E.	Mr. Michael Partee, Team Leader	Ms. Kristyn Campbell, Manager
<b>DATE:</b>	October 25, 2021	October 25, 2021	October 26, 2021