

Permit by Rule (PBR) Registration Technical Review

Company:	Exxon Mobil Corporation	Registration No.:	179383
Nearest City:	Baytown	Project No.:	390071
County:	Harris	Project Type:	Initial
Project Reviewer:	Celine Rosales	Regulated Entity No.:	RN102579307
Unit Name:	Exxonmobil Baytown Refinery	Customer Reference No.:	CN600123939
PBR No(s).:	106.478	Project Received Date:	March 11, 2025
Physical Location:	2800 Decker Dr		

Project Overview / Process Description

Exxon Mobil Corporation owns and operates the ExxonMobil Baytown Refinery site located in Harris County. This site is authorized under several other permits, including NSR 18287 and Title V O1229. The purpose of this registration is to install and demonstrate that the emissions from storage tank 702 meet the requirements of Permit by Rule 106.478.

Storage Tank 702 (TK0702) is a new internal floating roof tank. TK0702 will be used to store jet fuel and will replace the existing fixed roof tank, TK0702. Per Table 478 in PBR 106.478, the material being stored is refinery petroleum fractions containing less than 10% benzene.

This project should be incorporated into NSR 18287 at the next amendment or renewal.

Permit by Rule Requirements - 30 TAC Chapter 106

General Requirements

Registration Fee Reference No.:	Application fee: 756910 / 582EA000658773
Is this registration certified?	No
Is planned MSS included in the registration?	No
Are there affected NSR or Title V authorizations for the project?	Yes
<i>NSR and/or Title V authorizations:</i>	NSR 18287 and Title V O1229
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?	Yes, site has been to PN for NSR 18287
Are there permit limits on using PBRs at the site?	No
Is the facility subject to the NO _x Mass Cap and Trade Program?	No NOx emissions with project
Is the facility in compliance with all other applicable rules and regulations?	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:	MACT CC

Permit by Rule Requirements - Compliance Demonstrations

PBR 106.478 Storage Tank and Change of Service

Any fixed or floating roof storage tank, or change of service in any tank, used to store chemicals or mixtures of chemicals

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shown in Table 478 in paragraph (8) of this section is permitted by rule, provided that all of the following conditions of this section are met:

- (1) The tank shall be 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.
- (2) The true vapor pressure of the compound to be stored shall be **less than 11.0 psia (Actual: 0.0368 psia)** at the maximum storage temperature.
- (3) For those compounds that have a true vapor pressure greater than 0.5 psia and less than 11.0 psia at the maximum storage temperature, any storage vessel larger than 40,000 gallons capacity shall be equipped with an internal floating cover or equivalent control.
- (3)(A) An open top tank containing an external floating roof using double seal technology shall be an approved control alternative equivalent to an internal floating cover tank, provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal. Double seals having a vapor-mounted primary seal are an approved alternative for existing open top floating roof tanks undergoing a change of service.
- (3)(B) The floating cover or floating roof design shall incorporate sufficient flotation to conform to the requirements of American Petroleum Institute Code 650, Appendix C or an equivalent degree of flotation.
- (4) Compounds with a true vapor pressure of 0.5 psia or less at the maximum storage temperature may be stored in a fixed roof or cone roof tank which includes a submerged fill pipe or utilizes bottom loading.
- (5) For fixed or cone roof tanks having no internal floating cover, all uninsulated tank exterior surfaces exposed to the sun shall be painted chalk white except where a dark color is necessary to help the tank absorb or retain heat in order to maintain the material in the tank in a liquid state.
- (6) Emissions shall be calculated by methods specified in Section 4.3 of the current edition of the United States Environmental Protection Agency Publication AP-42. This document may be obtained from the Superintendent of Documents, Washington D.C. 20402. It is Stock Number 0550000251-7, Volume I.
- (7) Before construction begins, storage tanks of 25,000 gallons or greater capacity and located in a designated nonattainment area for ozone shall be registered with the commission's Office of Permitting, Remediation, and Registration in Austin using Form PI-7. The registration shall include a list of all tanks, calculated emissions for each carbon compound in tons per year for each tank, and a Table 7 of Form PI-2 for each different tank design.
- (8) Mixtures of the chemicals listed in Table 478 which contain more than a total of 1.0% by volume of all other chemicals not listed in Table 478 are not covered by this section.

Table 478

Approved Chemical List for Exemption from Permitting

D. Additional chemicals:

Crude oil and refinery petroleum fractions (except pyrolysis naphthas and pyrolysis gasolines) containing less than 10% benzene. Examples of approved petroleum fractions: intermediate and finished gasolines, naphthas, alkylates, fluid catalytic cracking unit feed, fuel oils, distillates, other liquid fuels, and condensates.

Natural gas and crude oil condensates that do not emit sour gas.

Compliance History and Site Review

In accordance with 30 TAC Chapter 60, a compliance history report was reviewed on: **March 13, 2025**

Site rating / classification: **11.69 / Satisfactory** Company rating / classification: **10.75 / 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**

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
TK0702 / Tank No. 702	0.33	0.36												
TOTAL EMISSIONS (TPY):		0.36												
MAXIMUM OPERATING SCHEDULE: Hours/Year													8,760	

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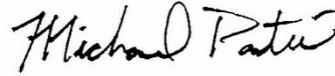
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03/17/2025

Date

Celine Rosales
Permit Reviewer
Rule Registration Section



03/18/2025

Date

Michael Partee, Manager
Rule Registrations Section
Air Permits Division