

# Fact Sheet



## *For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act*

Permit Number: **R30-09900118-2025**  
Application Received: **May 9, 2024**  
Plant Identification Number: **099-00118**  
Permittee: **Marathon Petroleum Company LP**  
Facility Name: **Neal Propane Cavern**  
Mailing Address: **P.O. Box 1492; Catlettsburg, KY 41129**

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Physical Location: Kenova, Wayne County, West Virginia  
UTM Coordinates: 360.688 km Easting • 4,247.736 km Northing • Zone 17  
Directions: From I-64 East take exit 1 for US-52 S toward Kenova Ceredo. On U.S. 52 S/W Virginia 75 E, turn right onto Co Hwy 1/16, turn left to stay on Co Hwy 1/16, turn left onto Novamount Rd, facility will be on the right.

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### **Facility Description**

The propane cavern (SIC: 2911) serves the Catlettsburg refinery by providing intermediate storage of excess propane produced in the Saturate Gas Plant (SGP), HF Alkylation (HF Alky) Unit, and Cumene Unit. After being treated at the refinery to remove contaminants, propane is transferred as a liquid product via a pipeline traversing across the Big Sandy River and is pumped into the propane cavern. The cavern also receives propane extracted from the propylene/propane stream sold by the Catlettsburg refinery to the Braskem America, Inc. (Braskem) Kenova, West Virginia plant. Braskem separates the propane from the propane/propylene stream, uses the propylene stream in their chemical manufacturing process, and routes the separated propane stream to the cavern. On the outlet side of the system, the cavern can supply propane to the refinery's fuel gas system, but its predominant function is to supply the product propane for sale to outside customers. Propane destined for sale or use in the refinery's fuel gas system is transported back across the Big Sandy River via a separate, dedicated cavern discharge piping network. Product propane is dried, routed through carbon adsorption beds, certified for certain product specifications, and charged to a series of five (5) pressurized, bullet tanks (i.e., Tanks 862- 866 listed in the refinery's Title V permit). Any off-specification product is pumped back to the cavern. From the bullet tanks, the on-specification product propane is transferred into tanker trucks or railcars for transportation to customers.

## Emissions Summary

### Plantwide Emissions Summary [Tons per Year]

Regulated Pollutants	Potential Emissions	2023 Actual Emissions
Carbon Monoxide (CO)	0.64	<0.01
Nitrogen Oxides (NO <sub>x</sub> )	2.33	0.01
Particulate Matter (PM <sub>2.5</sub> )	0.09	<0.01
Particulate Matter (PM <sub>10</sub> )	0.17	0.04
Total Particulate Matter (TSP)	0.41	0.16
Sulfur Dioxide (SO <sub>2</sub> )	0.85	<0.01
Volatile Organic Compounds (VOC)	6.88	0.92

*PM<sub>10</sub> is a component of TSP.*

Hazardous Air Pollutants	Potential Emissions	2018 Actual Emissions
Total HAPs	0.01	<0.01

### Title V Program Applicability Basis

This facility, MPLX Terminal and Storage LLC's Butane Storage Cavern (Facility ID: 099-00112), and Catlettsburg Refining, LLC's Catlettsburg Refinery are considered a single source for Clean Air Act permitting purposes. The combined facility has the potential to emit 336.6 TPY of PM<sub>10</sub>, 600.0 TPY of SO<sub>2</sub>, 2370.7 TPY of NO<sub>x</sub>, 2930.9 TPY of CO, 1754.1 TPY of VOC, 16.9 TPY of Benzene, 14.3 TPY of Cumene, and 55.4 TPY of total HAPs. Due to the combined facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, Marathon Petroleum Company's Neal Propane Cavern is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30

### Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR6	Open burning prohibited.
	45CSR11	Standby plans for emergency episodes.
	45CSR16	NSPS
	WV Code § 22-5-4 (a) (15)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	45CSR34	NESHAP
	40 C.F.R. Part 60, Subpart GGGa	Equipment leaks in petroleum refineries.
	40 C.F.R. Part 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
	40 C.F.R. Part 61	Asbestos inspection and removal

	40 C.F.R. Part 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR17	Fugitive particulate matter.

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

**Active Permits/Consent Orders**

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit <i>(if any)</i>
None	N/A	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

**Determinations and Justifications**

**Title V Boilerplate changes:**

- **Conditions 2.1.3., 3.5.4., and 3.5.8.a.2.** – Revised resulting from changes to 45CSR30.
- **Condition 2.11.4.** – The citation was revised due to changes to 45CSR30.
- **Condition 2.22.1.** – The citation was revised because 45CSR38 has been repealed.
- **Condition 3.5.3.** – The mailing address for the U.S. EPA was revised.
- **Conditions 2.17., 3.5.7., 3.5.8.a.1.** – Deleted based on changes to 45CSR30.
- **Conditions 3.1.6. and 3.3.1.** – The citation was revised to refer to the current version of the WV Code.
- **Condition 3.3.1.b.** – This condition was updated to include the following additional language: “If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit shall be revised in accordance with 45CSR§30-6.4 or 45CSR§30-6.5 as applicable.”

**Other Changes:**

- **Conditions 5.1.1., 5.1.2., and 5.1.5.** – Revised due to changes to 40 C.F.R. 60 Subpart III.

**Non-Applicability Determinations**

The following requirements have been determined not to be applicable to the subject facility due to the following:

- 45CSR7—This rule does not apply since this facility does not emit smoke, particulate matter, or other gaseous matter. Also, this facility does not meet the definition of a manufacturing process in 45CSR§7-2.20.
- 45CSR21—The only potentially applicable sections of this regulation are 45CSR§21-26 for Leaks from Petroleum Refinery Equipment and 45CSR§21-40 for Other Facilities that Emit Volatile Organic Compounds. The propane cavern does not meet the definition of a petroleum refinery in 45CSR§21-2.54, since this facility is not engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, or other products through distillation of petroleum or through the redistillation, cracking, or reforming of unfinished petroleum derivatives; so 45CSR§21-26 does not apply. The propane cavern’s aggregate maximum theoretical VOC emissions are below 100 TPY, so 45CSR§21-40 does not apply.
- 45CSR27—This facility does not meet the definition of “chemical processing unit” in 45CSR§27-2.4 since the propane stored in the cavern is below 5% benzene by weight, thus this rule does not apply.
- 40 CFR Part 64 – The facility did not have any pollutant specific emissions units (PSEUs) that satisfied all of the applicability criteria requirements of 40 CFR §64.2(a). There have been no emission units added to this permit since the previous renewal was issued, so CAM remains not applicable to any emission unit listed in the renewal application.

**Request for Variances or Alternatives**

None.

**Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

**Comment Period**

Beginning Date: December 6, 2024

Ending Date: January 6, 2025

**Point of Contact**

All written comments should be addressed to the following individual and office:

Beena Modi  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 41283  
Beena.j.modi@wv.gov

**Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

**Response to Comments (Statement of Basis)**

None.