

Facility ID: 1431071775 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431071775 Emissions Unit ID: T008 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
T008-787,500 gallon internal floating roof storage tank	OAC rule 3745-31-05(A)(3) (PTI 14-05227)	Volatile Organic Compound (VOC) emissions shall not exceed 1.1 TPY.
	OAC rule 3745-21-09(L) (when petroleum liquids are stored)	See section A.2. The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) This emissions unit shall have a fixed roof in combination with an internal floating roof meeting the following specifications:
 - i. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.
 - ii. Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
 - (a) A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam or liquid filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
 - (b) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
 - (c) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric(envelope) spans the annular space between the metal sheet and the floating roof.
 - iii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
 - iv. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.
 - v. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the

roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

- vi. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
- vii. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
- viii. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.
- ix. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.
- x. The storage tank shall be equipped with submerged fill.

The as stored maximum true vapor pressure of any organic compounds stored in this emissions unit shall not exceed 11.11 psia.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of an internal floating roof and submerged fill.

B. Operational Restrictions

- 1. None

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform an annual inspection of this emissions unit (excluding the primary seal). The purpose of this inspection is to document compliance with the control measures specified in term A.2
 - The permittee shall record the results of this inspection in a logbook. Any problems noted during the inspection and any corrective action(s) taken to comply with the requirements specified in term A.2.a shall be noted.
- 2. The permittee shall visually inspect the internal floating roof, the primary seal and secondary seal each time the emissions unit is emptied and degassed.
- 3. The permittee shall visually inspect the primary seal for holes, tears or other openings in the seal at least once every 10 years. The inspection required in term C.2 will meet this requirement.
- 4. The permittee shall maintain a record of the volatile organic liquid (VOL) stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
- 5. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

D. Reporting Requirements

- 1. The permittee shall submit an annual report summarizing the findings of any inspection required in term C.1 - C.3 and any repairs made. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
- 2. The permittee shall report all periods of time when a VOL with a vapor pressure greater than 11.11 psia was stored in this emissions unit and the reason for the exceedance. This report shall be submitted within 30 days after the exceedance occurs.

E. Testing Requirements

- 1. Compliance with the control requirements specified in term A.2.a shall be demonstrated by the monitoring and recordkeeping specified in term C.1.
- 2. Compliance with the vapor pressure limitation specified in term A.2.b shall be demonstrated by the monitoring and recordkeeping specified in term C.4.
- 3. Compliance with the organic compound emission limitation specified in term A.1 of this permit shall be demonstrated by use of the equations specified in AP-42, Fifth Edition, 9/97, Section 7.1 Organic Liquid Storage Tanks.

F. Miscellaneous Requirements

None