

Facility ID: 0684020225 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: 0684020225 Emissions Unit ID: T001 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>
55,000 bbl (2,310,000 gal) Crude Oil Storage Tank	OAC rule 3745-31-05(A)(3) PTI # 06-5586	Emissions of Volatile Organic Compounds (VOC) shall not exceed 0.88 ton/yr.
	OAC rule 3745-21-09(L)(1) 40 CFR Part 60, Subpart Kb	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(L)(1) and 40 CFR Part 60, Subpart Kb (NSPS). See B.1. below. See A.2.a below.

2. Additional Terms and Conditions

- (a) This storage tank shall be equipped with 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. The internal floating roof shall be equipped with 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.
 - iii. Each opening in the 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.

B. Operational Restrictions

1. The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports, and the rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or is at the manufacturer's recommended setting.
2. All openings, except stub drains, shall be equipped with a cover, seal or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.
3. The maximum true vapor pressure of any Volatile Organic Liquid (VOL) stored in this emissions unit shall not exceed 11.11 psia.

C. Monitoring and/or Record Keeping Requirements

1. In accordance with 40 CFR 60.116b(a) and (b), the owner and operator of the following storage vessel shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel for the life of the source.

Source Number Tank Size

T001 55000 bbl (2,310,000 gal)

2. The permittee shall maintain records of the following information:
 - a. The VOL stored in the tank.
 - b. The period of storage.
 - c. The maximum true vapor pressure of the stored VOL during the respective storage period.
3. The permittee shall perform visual inspections as specified in item a. or b. below. If the permittee conducts annual visual inspections in accordance with item a., inspections as described in item b. must be conducted at least once every 10 years.
 - a. The permittee shall visually inspect the internal floating roof and the secondary seal through manholes and roof hatches on the fixed roof at least once every 12 months. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Ohio EPA Southeast District Office in the inspection report required by Section D.1. of this permit. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.
 - b. The permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. Inspections shall be conducted in accordance with this item at least every 5 years. If annual visual inspections are conducted in accordance with item a., inspections shall be conducted in accordance with this item at least every 10 years.
4. The permittee shall keep a record of each inspection performed. The record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
5. The permittee shall notify the Ohio EPA Southeast District Office in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by section C.3.b. of this permit to afford the Ohio EPA Southeast District Office the opportunity to have an observer present. If the inspection required by section C.3.b. is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Ohio EPA Southeast District Office at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately, followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the Ohio EPA Southeast District Office at least 7 days prior to the refilling.

D. Reporting Requirements

1. After each inspection required by section C.3. that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in section C.3.a., a report shall be furnished to the Ohio EPA Southeast District Office within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of section A.2.a and list each repair made.
2. The permittee shall notify the Ohio EPA Southeast District Office in writing of any record showing that any VOL stored in the tank exceeded the vapor pressure limitation specified above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days.

E. Testing Requirements

1. Compliance with the emission limitation(s) in section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

VOC emissions shall not exceed 0.88 ton/yr.

Compliance Method:

Compliance shall be determined by a one time calculation using the TANKS Program 4.0 or other method acceptable to the Ohio EPA Southeast District Office.

F. **Miscellaneous Requirements**

1. None