Facility ID: 0332010020 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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.

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Facility ID: 0332010020 Emissions Unit ID: J001 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Transmix loading operation	OAC rule 3745-31-05(C) (PTI #03-17323 issued 10/04/07)	See A.2.a
	OAC rule 3745-21-07(E)	See A.2.b

2. **Additional Terms and Conditions**

(a) Permit to Install 03-17323 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for purposes of avoiding Best Available Technology (BAT) requirements under OAC rule-3745-31-05(A)(3):

i. use of submerged fill;

ii. annual throughput restriction of 9,000,000 gallons of transmix fuel.
The maximum daily throughput of J001 is less than 40,000 gallons per day. Therefore, this emissions unit is exempt from the requirements of OAC rule 3745-21-07(E).

B. **Operational Restrictions**

1. The permittee shall not exceed an annual material throughput rate of 9,000,000 gallons.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain daily records of the amount of material throughput for this emissions unit, in gallons per day and total gallons, to date, for the calendar year.

D. **Reporting Requirements**

1. The permittee shall notify the Ohio EPA in writing of each daily record that shows a maximum daily throughput equal to or exceeding 40,000 gallons. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Northwest District Office within 30 days after the deviation occurs.

2. The permittee shall submit annual reports which identify the actual annual material throughput rate, in gallons.

E. **Testing Requirements**

1. None

F. **Miscellaneous Requirements**

1. None

Facility ID: 0332010020 Emissions Unit ID: T003 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
675,000 gallon transmix storage tank with internal floating roof	OAC rule 3745-31-05(C) (PTI #03-17323 issued 10/04/07)	See A.2.a
	OAC rule 3745-21-09(L)	See A.2.b through A.2.e, C.3, C.9, and D.2
	40 CFR Part 60 Subpart Kb 40 CFR Part 60.112b	See A.2.f through A.2.n
	40 CFR Part 60 Subpart Kb 40 CFR Part 60.113b	See C.4 through C.7 and D.3
	40 CFR Part 60 Subpart Kb 40 CFR Part 60.115b	See C.8 and D.4 through D.7
	40 CFR Part 60 Subpart Kb 40 CFR Part 60.116b	See C.1, C.3 and C.10

2. **Additional Terms and Conditions**

   (a) Permit to Install 03-17323 for this air contaminant source takes into account the following voluntary restrictions as proposed by the permittee for purposes of avoiding Best Available Technology (BAT) requirements under OAC rule-3745-31-05(A)(3):

   i. use of internal floating roof;

   ii. annual throughput restriction of 9,000,000 gallons of transmix fuel.
   The fixed roof storage tank shall be equipped with an internal floating roof.
   The automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports.
   The rim vents, if present, shall be set to open or at the manufacturer's recommended setting when the roof is being floated off the roof leg supports.
   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.
   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.
   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:

   i. 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.

   ii. 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. 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.
   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.
   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.
   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.
   Rim space vents shall be equipped with a gasket and are to bet set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

Each penetration of the internal floating roof for the purpose of the sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
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.
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 permittee shall not exceed an annual material throughput rate of 9,000,000 gallons.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (shall be kept for the life of the source).

2. The permittee shall maintain monthly records of the amount of material throughput for this emissions unit, in gallons per month and total gallons, to date, for the calendar year.

3. The permittee shall maintain records of the following information:
The types of petroleum liquids stored in the tank;
The period of storage; and
The maximum true vapor pressure (pounds per square inch absolute), as stored, of each petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute. Available data on the storage temperature may be used to determine the maximum true vapor pressure as in the following:

i. For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

ii. For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(a) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorp. by reference - see 40 CFR 60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

(b) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

iii. For other liquids, the vapor pressure:

(a) May be obtained from standard reference texts; or

(b) Determined by ASTM Method 2879-83 (incorporated by reference - see 40 CFR 60.17); or

(c) Measured by an appropriate method approved by the Administrator; or

(d) Calculated by an appropriate method approved by the Administrator.

4. The permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.

5. For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. 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 owner or operator 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 Administrator in the inspection report required in D.7. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel with be emptied as soon as possible.

6. For vessels equipped with a double-seal system as specified in A.2.h.ii:

a. Visually inspect the vessel as specified in C.7 at least every 5 years; or

b. Visually inspect the vessel as specified in C.5.

7. Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), 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 seal fabric, or the secondary seal has holes, tears, or openings in the seal or 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 owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in C.5 and C.6.b and at intervals no greater than 5 years in the case of vessels specified in C.6.a.

8. The permittee shall keep a record of each inspection performed as required by sections C.4 - C.7. Each 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).

9. The permittee shall maintain a record of any period of time in which the automatic bleeder vents, rim vents, and all openings other than stub drains were not maintained as required in this permit and per the rules.

10. The owner or operator of each vessel storing a waste mixture of indeterminate or variable composition shall be subject to the following requirements:

a. Prior to the initial filling of the vessel, the highest maximum true vapor pressure for the range of anticipated liquid compositions to be stored will be determined using the methods described in C.3.c.

b. For vessels in which the vapor pressure of the anticipated liquid composition is above 76.6 kPa (11.1 psia), an initial physical test of the vapor pressure is required; and a physical test at least every 6 months thereafter is required as determined by the following methods:

i. ASTM Method D2879-83 (incorporated by reference - see 40 CFR 60.17); or

ii. ASTM Method D323-82 (incorporated by reference - see 40 CFR 60.17); or

iii. As measured by an appropriate method as approved by the Administrator.

D. **Reporting Requirements**

1. The permittee shall submit annual deviation (excursion) reports that identify any and all exceedances of the annual material throughput limitation, as well as the corrective actions taken to achieve compliance. If no deviations occurred during a calendar year, the permittee shall submit an annual report which states that no deviations occurred during that year. These reports shall be submitted by January 31st of each year.

2. The permittee shall notify the Northwest District Office within 30 days after the occurrence of any period of time in which the automatic bleeder vents, rim vents, and all openings other than stub drains were not maintained as required in this permit.

3. The permittee shall provide written notification at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by sections C.4 and C.7. If the inspection required by C.7 is not planned and the permittee could not have known about the inspection 30 days in advance of filling the tank, the permittee shall notify the Northwest 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 Northwest District Office at least 7 days prior to the refilling.

4. The permittee shall submit a notification of the actual date of startup postmarked within 15 days after such date.

5. After installing the control equipment required by section A.2.c, the permittee shall submit a report that describes the control equipment and certifies that it meets the specifications of section A.2.g - A.2.o and section C.4. This report shall be an attachment to the notification required by section D.4.

6. After each inspection required by C.6 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 C.6.b, a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of A.2.g through A.2.o or C.6 and list each repair made.

7. If any of the conditions described in C.5 are detected during the annual visual inspection required by C.5, a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

E. **Testing Requirements**

1. None

F. **Miscellaneous Requirements**

1. None