



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
WARREN COUNTY**

**CERTIFIED MAIL**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05834**

**Fac ID: 1483060110**

**DATE: 7/25/2006**

Texas Eastern Products Pipeline Company  
Chandra Sripadam  
2521 2929 Allen Parkway, 70019  
Houston, TX 772522521

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES



**Permit To Install  
Terms and Conditions**

**Issue Date: 7/25/2006  
Effective Date: 7/25/2006**

**FINAL PERMIT TO INSTALL 14-05834**

Application Number: 14-05834  
Facility ID: 1483060110  
Permit Fee: **\$3550**  
Name of Facility: Texas Eastern Products Pipeline Company  
Person to Contact: Chandra Sripadam  
Address: 2521 2929 Allen Parkway, 70019  
Houston, TX 772522521

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2700 Hart Road  
Lebanon, Ohio**

Description of proposed emissions unit(s):  
**Installation of two (2) new IFR gasoline storage tanks, two (2) fixed roof diesel fuel storage tanks, and one (1) 14.7 MMBTU/hr natural gas-fired fractionator convection heater.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to

**Texas Eastern Products Pipeline Company**  
**PTI Application: 14-05834**  
**Issued Final: 7/25/2006**

**Facility ID: 067101012**

the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

#### **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

#### **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

#### **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

- iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## 10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

## 11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

## 12. Air Pollution Nuisance

**Texas Eastern Products Pipeline Company**  
**PTI Application: 14-05834**  
**Issued Final: 7/25/2006**

**Facility ID: 067101012**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

Texas Eastern Products Pipeline Company  
PTI Application: 14-05834  
Issued Final: 7/25/2006

Facility ID: 067101012

### **13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

## **B. State Only Enforceable Permit-To-Install General Terms and Conditions**

### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

### **3. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder.

**Texas Eastern Products Pipeline Company**

**PTI Application: 14-05834**

**Issued Final: 7/25/2006**

**Facility ID: 067101012**

The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

#### **6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

#### **8. Construction Compliance Certification**

**Texas Eastern Products Pipeline Company**  
**PTI Application: 14-05834**  
**Issued Final: 7/25/2006**

**Facility ID: 067101012**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	6.31
CO	5.30
PE/PM10	0.48
SO2	0.04
OC	3.01

**Texas Eastern Products Pipeline Company**  
**PTI Application: 14-05834**  
**Issued Final: 7/25/2006**

**Facility ID: 067101012**

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

Emissions Unit ID: P001

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P001) - Fractional distillation of transmix product at a maximum rated capacity of 6000 bbl/day; one 14.7 MMBTU/hr natural gas fired heater (FR-HTR) with reboiler loop and maintenance flare**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
-------------------------------	---

Emissions Unit ID: P001

OAC rule 3745-31-05(A)(3)	<p>Nitrogen oxides (NO<sub>x</sub>) emissions from fuel burning shall not exceed 0.098 lb/mmBtu and 6.31 TPY.</p> <p>Carbon monoxide (CO) emissions from fuel burning shall not exceed 0.082 lb/mmBtu and 5.30 TPY.</p> <p>Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM<sub>10</sub>) from fuel burning shall not exceed 0.0075 lb/mmBtu and 0.48 TPY.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions from fuel burning shall not exceed 0.0006 lb/mmBtu and 0.04 TPY.</p> <p>Organic compound (OC) emissions from fuel burning shall not exceed 0.0085 lb/mmBtu and 0.57 TPY.</p> <p>Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average.</p> <p>NO<sub>x</sub> emissions from the maintenance flare shall not exceed 0.068 lb/mmBtu and 0.001 TPY.</p> <p>CO emissions from the maintenance flare shall not exceed 0.37 lb/mmBtu and 0.004 TPY.</p> <p>OC emissions from the maintenance flare shall not exceed 0.14 lb/mmBtu and 0.002 TPY.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(J)(2).</p> <p>See terms and conditions A.I.2.d., A.II.1., and A.II.2.</p>
OAC rule 3745-17-07(A)(1)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-10(B)(1)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-21-07(J)(2)	No person shall emit organic materials into the atmosphere from a waste gas flare system unless such materials are burned by smokeless flares, or an equally effective control measure equipment as approved by the director.
OAC rule 3745-21-08(B)	See term and condition A.I.2.b.
OAC rule 3745-23-06(B)	See term and condition A.I.2.c.

Issued Final: 7/25/2006

## 2. Additional Terms and Conditions

**2.a** The lb/mmBtu emissions limitations from fuel burning specified in Section A. are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limitations. The annual emissions limitations from fuel burning specified in Section A. are also based upon the emissions unit's PTE. Therefore, no records are required to demonstrate compliance with these limitations.

**2.b** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**2.c** The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and therefore no longer a part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-23-06, the requirement to satisfy "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**2.d** The permittee shall equip the smokeless flare with an electronic ignition that ensures the flare pilots will not burn unless organic vapors are detected.

**2.e** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the visible emissions limitation, mass emissions limitations, the use of a smokeless flare, and the exclusive use of natural gas as fuel.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.
2. The permittee shall use the smokeless flare for scheduled maintenance activities, when purging gas from the fractional distillation unit, for not more than 24 hours during any calendar year.

**III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. On any day when the smokeless flare is used for scheduled maintenance activities when, when purging gas from the fractional distillation unit, the permittee shall maintain a record of the actual number of hours the flare was in operation.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit and/or the permittee exceeded hours of operation restriction in term A.II.2. Each report shall be submitted to the Hamilton County Department of Environmental Services within 30 days after the deviation occurs.

**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

**Emissions Limitations**

Nitrogen oxides (NO<sub>x</sub>) emissions from fuel burning shall not exceed 0.098 lb/mmBtu and 6.31 TPY

Carbon monoxide (CO) emissions from fuel burning shall not exceed 0.082 lb/mmBtu and 5.30 TPY

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM<sub>10</sub>) from fuel burning shall not exceed 0.0075 lb/mmBtu and 0.48 TPY

Sulfur dioxide (SO<sub>2</sub>) emissions from fuel burning shall not exceed 0.0006 lb/mmBtu and 0.04 TPY

Organic compound (OC) emissions from fuel burning shall not exceed 0.0085 lb/mmBtu and 0.57 TPY

**Issued Final: 7/25/2006**

Applicable Compliance Method

Compliance with the lb/mmBtu emissions limitations shall be demonstrated by multiplying the applicable emission factor from AP-42, Fifth Edition, Section 1.4 (7/98) by 1 ft<sup>3</sup>/1020 Btu. Compliance with the annual emissions limitations are determined by multiplying the lb/mmBtu as an emission factor by the average heat input of the boiler (mmBtu/hr), by the actual hours of operation (hr/yr). This number is then converted into TPY by multiplying by 1 ton/2000 lb.

Emissions Limitation

Visible particulate emissions from any stack associated with fuel burning shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

Emissions Limitations

NOx emissions from the maintenance flare shall not exceed 0.068 lb/mmBtu and 0.001 TPY

CO emissions from the maintenance flare shall not exceed 0.37 lb/mmBtu and 0.004 TPY

OC emissions from the maintenance flare shall not exceed 0.14 lb/mmBtu and 0.002 TPY

Applicable Compliance Method

Compliance with the lb/mmBtu emissions limitations shall be demonstrated the applicable emission factor from AP-42, Fifth Edition, Section 13.5 (9/91, reformatted 1/95). Compliance with the annual emissions limitations are determined by multiplying the lb/mmBtu as an emission factor by the average heat input of the purge gas and pilot gas to the flare (mmBtu/hr), by the actual hours of operation (hr/yr). This number is then converted into TPY by multiplying by 1 ton/2000 lb.

2. Compliance with the requirements of term and condition A.II.1. shall be demonstrated by the record keeping required in term and condition A.III.1.
3. Compliance with the requirements of term and condition A.II.2. shall be demonstrated by the record keeping required in term and condition A.III.2.

**VI. Miscellaneous Requirements**

**Texas Eastern Products Pipeline Company**  
DTI Application: 11 05824

**Facility ID: 067101012**

Emissions Unit ID: P001

None

Issued Final: 7/25/2006

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P001) - Fractional distillation of transmix product at a maximum rated capacity of 6000 bbl/day; one 14.7 MMBTU/hr natural gas fired heater (FR-HTR) with reboiler loop and maintenance flare**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Issued Final: 7/25/2006**

Emissions Unit ID: P001

Issued Final: 7/25/2006

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T214) - Tank T3214. 10,000 bbl Internal Floating Roof (IFR) tank storing gasoline from Transmix fractional distillation process with mechanical shoe primary seal and rim-mounted flexible wiper secondary seal**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.95 TPY.</p> <p>The requirements of this rule also includes compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60 Subpart Kb.</p> <p>See term and condition A.II.1.</p>
OAC rule 3745-21-09(L)(1)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60, Subpart Kb.
40 CFR 60 Subpart Kb 60.112b	See term and condition A.II.2.

**2. Additional Terms and Conditions**

- 2.a The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.b The annual emissions limitation outlined above is based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with this limit.

Issued Final: 7/25/2006

- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of an internal floating roof, the use of submerged filling, compliance with the stored material vapor pressure restriction, compliance with the VOC emissions limitation, and compliance with OAC rule 3745-21-09(L) and 40 CFR 60 Subpart Kb.

## **II. Operational Restrictions**

1. The permittee shall not store any material with a vapor pressure greater than or equal to 7.5 psia in this emissions unit.
2. The permittee shall equip and maintain the storage vessel with a fixed roof in combination with an internal floating roof and in accordance with the following provisions:
  - a. 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;
  - b. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the tank is completely emptied or subsequently emptied and refilled;
  - c. 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;
  - d. The 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; or

- 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.
- e. Each opening in a non-contact 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;
- f. 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;
- g. 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;
- h. 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;
- i. 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;
- j. 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; and
- k. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

### III. Monitoring and/or Recordkeeping Requirements

1. 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.
2. The permittee shall maintain monthly records of the following information:

**Issued Final: 7/25/2006**

- a. The identification and type of each material liquid stored in this emissions unit; and
- b. The maximum true vapor pressure, in psia, as stored, of each material.

*(Maximum true vapor pressure is defined as, the equilibrium partial pressure exerted by the stored VOL (Volatile Organic Liquid) at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature.)*

3. After installing the control equipment required to meet the requirements in 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator, according to the requirements in 40 CFR Part 60.113b (a)(1), (a)(2), (a)(3) and (a)(4), shall:
  - a. 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;
  - b. 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 40 CFR Part 60.115b(a)(3). 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 will be emptied as soon as possible;
  - c. For vessels equipped with a double-seal system as specified in 40 CFR Part 60.112b(a)(1)(ii)(B):

Emissions Unit ID: T214

- i. Visually inspect the vessel as specified in term and condition A.III.3.d. at least every 5 years; or
- ii. Visually inspect the vessel as specified in term and condition A.III.3.b.; and
- d. 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 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 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 terms and conditions A.III.3.b. and A.III.3.c.ii. and at intervals no greater than 5 years in the case of vessels specified in term and condition A.III.3.c.i.
4. The permittee shall maintain a record of each inspection performed as required by 40 CFR 60.113b (a)(1), (a)(2), (a)(3), and (a)(4). 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).
5. The owner or operator of each storage vessel with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. The owner or operator shall keep copies of all records required by this section for at least 2 years.

#### IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing that any material stored in the tank exceeded the vapor pressure limit in term and condition A.II.1. for this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall notify the Hamilton County Department of Environmental Services within 30 days of 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

Emissions Unit ID: T214

required in this permit.

3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date);
  - b. Actual start-up date (within 15 days after such date), including a description of each affected emissions unit, equipment manufacturer, and serial number of the equipment if available; and
  - c. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P. O. Box 1049  
Columbus, Ohio 43216-1049

and

Hamilton County Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

4. After installing control equipment in accordance with 40 CFR 60.112b(a)(1) (fixed roof and internal floating roof), the permittee shall meet the following reporting requirements:
  - a. Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 40 CFR 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR 60.7(a)(3).
  - b. Keep a record of each inspection performed as required by 40 CFR 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). 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).
  - c. If any of the conditions described in 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), 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.

**Issued Final: 7/25/2006**

- d. After each inspection required by 40 CFR 60.113b(a)(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 40 CFR 60.113b(a)(3)(ii), 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 40 CFR 60.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made.
6. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

## **V. Testing Requirements**

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

### Emissions Limitation

Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.95 TPY

### Applicable Compliance Method

Compliance with the emissions limitation shall be demonstrated by calculating the actual working losses and breathing losses using the Tanks 4.0 emissions estimating software based on equations developed by the American Petroleum Institute documented in AP-42, Section 7.1, Organic Liquid Storage Tanks.

2. After installing the control equipment required to meet 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator shall:
  - a. 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 (volatile organic liquid). 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.
  - b. 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

**Issued Final: 7/25/2006**

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 40 CFR 60.115b(a)(3). 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 will be emptied as soon as possible.

- c. For vessels equipped with a double-seal system as specified in 40 CFR 60.112b(a)(1)(ii)(B):
  - i. Visually inspect the vessel as specified in paragraph (a)(4) of 40 CFR 60.113b at least every 5 years; or
  - ii. Visually inspect the vessel as specified in paragraph (a)(2) of 40 CFR 60.113b.
- d. 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 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 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 paragraphs (a)(2) and (a)(3)(ii) of 40 CFR 60.113b and at intervals no greater than 5 years in the case of vessels specified in paragraph (a)(3)(i) of 40 CFR 60.113b.
- e. Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of 40 CFR 60.113b to afford the Administrator the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of 40 CFR 60.113b is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator

Emissions Unit ID: T214

shall notify the Administrator 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 Administrator at least 7 days prior to the refilling.

2. Compliance with the requirements of term and condition A.II.1. shall be demonstrated by the record keeping required in term and condition A.III.2.

## **VI. Miscellaneous Requirements**

None

Issued Final: 7/25/2006

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T214) - Tank T3214. 10,000 bbl Internal Floating Roof (IFR) tank storing gasoline from Transmix fractional distillation process with mechanical shoe primary seal and rim-mounted flexible wiper secondary seal**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Issued Final: 7/25/2006**

Emissions Unit ID: T214

Issued Final: 7/25/2006

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T215) - Tank T3215. 10,000 bbl Internal Floating Roof (IFR) tank storing gasoline from Transmix fractional distillation process with mechanical shoe primary seal and rim-mounted flexible wiper secondary seal**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.95 TPY.</p> <p>The requirements of this rule also includes compliance with the requirements of OAC rule 3745-21-09(L) and 40 CFR Part 60 Subpart Kb.</p> <p>See term and condition A.II.1.</p>
OAC rule 3745-21-09(L)(1)	The requirements established pursuant to this rule are equivalent to the requirements of 40 CFR Part 60, Subpart Kb.
40 CFR 60 Subpart Kb 60.112b	See term and condition A.II.2.

**2. Additional Terms and Conditions**

- 2.a The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.
- 2.b The annual emissions limitation outlined above is based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with this limit.

- 2.c** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of an internal floating roof, the use of submerged filling, compliance with the stored material vapor pressure restriction, compliance with the VOC emissions limitation, and compliance with OAC rule 3745-21-09(L) and 40 CFR 60 Subpart Kb.

## II. Operational Restrictions

1. The permittee shall not store any material with a vapor pressure greater than or equal to 7.5 psia in this emissions unit.
2. The permittee shall equip and maintain the storage vessel with a fixed roof in combination with an internal floating roof and in accordance with the following provisions:
  - a. 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;
  - b. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the tank is completely emptied or subsequently emptied and refilled;
  - c. 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;
  - d. The 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; or
    - 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

**Issued Final: 7/25/2006**

coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

- e. Each opening in a non-contact 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;
- f. 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;
- g. 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;
- h. 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;
- i. 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;
- j. 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; and
- k. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

### **III. Monitoring and/or Recordkeeping Requirements**

- 1. 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.
- 2. The permittee shall maintain monthly records of the following information:

Emissions Unit ID: T215

- a. The identification and type of each material liquid stored in this emissions unit; and
  - b. The maximum true vapor pressure, in psia, as stored, of each material.  
  
(*Maximum true vapor pressure* is defined as, the equilibrium partial pressure exerted by the stored VOL (Volatile Organic Liquid) at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature.)
3. After installing the control equipment required to meet the requirements in 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator, according to the requirements in 40 CFR Part 60.113b (a)(1), (a)(2), (a)(3) and (a)(4), shall:
- a. 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;
  - b. 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 40 CFR Part 60.115b(a)(3). 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 will be emptied as soon as possible;
  - c. For vessels equipped with a double-seal system as specified in 40 CFR Part 60.112b(a)(1)(ii)(B):
    - i. Visually inspect the vessel as specified in term and condition A.III.3.d. at least every 5 years; or

**Issued Final: 7/25/2006**

- ii. Visually inspect the vessel as specified in term and condition A.III.3.b.; and
        - d. 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 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 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 terms and conditions A.III.3.b. and A.III.3.c.ii. and at intervals no greater than 5 years in the case of vessels specified in term and condition A.III.3.c.i.
4. The permittee shall maintain a record of each inspection performed as required by 40 CFR 60.113b (a)(1), (a)(2), (a)(3), and (a)(4). 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).
5. The owner or operator of each storage vessel with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. The owner or operator shall keep copies of all records required by this section for at least 2 years.

#### **IV. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing that any material stored in the tank exceeded the vapor pressure limit in term and condition A.II.1. for this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
2. The permittee shall notify the Hamilton County Department of Environmental Services

Emissions Unit ID: T215

within 30 days of 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. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
  - a. Construction date (no later than 30 days after such date);
  - b. Actual start-up date (within 15 days after such date), including a description of each affected emissions unit, equipment manufacturer, and serial number of the equipment if available; and
  - c. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P. O. Box 1049  
Columbus, Ohio 43216-1049

and

Hamilton County Environmental Services  
250 William Howard Taft Road  
Cincinnati, Ohio 45219

4. After installing control equipment in accordance with 40 CFR 60.112b(a)(1) (fixed roof and internal floating roof), the permittee shall meet the following reporting requirements:
  - a. Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 40 CFR 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR 60.7(a)(3).
  - b. Keep a record of each inspection performed as required by 40 CFR 60.113b(a)(1), (a)(2), (a)(3), and (a)(4). 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).
  - c. If any of the conditions described in 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), a report shall be

**Issued Final: 7/25/2006**

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.

- d. After each inspection required by 40 CFR 60.113b(a)(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 40 CFR 60.113b(a)(3)(ii), 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 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made.
6. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

## **V. Testing Requirements**

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

### Emissions Limitation

Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.95 TPY

### Applicable Compliance Method

Compliance with the emissions limitation shall be demonstrated by calculating the actual working losses and breathing losses using the Tanks 4.0 emissions estimating software based on equations developed by the American Petroleum Institute documented in AP-42, Section 7.1, Organic Liquid Storage Tanks.

2. After installing the control equipment required to meet 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator shall:
  - a. 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(volatile organic liquid). 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.
  - b. For vessels equipped with a liquid-mounted or mechanical shoe primary seal,

Emissions Unit ID: T215

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 40 CFR 60.115b(a)(3). 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 will be emptied as soon as possible.

- c. For vessels equipped with a double-seal system as specified in 40 CFR 60.112b(a)(1)(ii)(B):
  - i. Visually inspect the vessel as specified in paragraph (a)(4) of 40 CFR 60.113b at least every 5 years; or
  - ii. Visually inspect the vessel as specified in paragraph (a)(2) of 40 CFR 60.113b.
- d. 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 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 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 paragraphs (a)(2) and (a)(3)(ii) of 40 CFR 60.113b and at intervals no greater than 5 years in the case of vessels specified in paragraph (a)(3)(i) of 40 CFR 60.113b.
- e. Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of 40 CFR 60.113b to afford the Administrator the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of 40 CFR 60.113b is not planned and the owner or operator could not have known about

**Issued Final: 7/25/2006**

the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Administrator 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 Administrator at least 7 days prior to the refilling.

2. Compliance with the requirements of term and condition A.II.1. shall be demonstrated by the record keeping required in term and condition A.III.2.

**VI. Miscellaneous Requirements**

None

Emissions Unit ID: T215

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T215) - Tank T3215. 10,000 bbl Internal Floating Roof (IFR) tank storing gasoline from Transmix fractional distillation process with mechanical shoe primary seal and rim-mounted flexible wiper secondary seal**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Issued Final: 7/25/2006

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T216) - Tank T3216. 15,000 bbl Vertical Cone Fixed Roof tank storing diesel fuel from Transmix fractional distillation process**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.27 TPY.  See term and condition A.II.1.

**2. Additional Terms and Conditions**

- 2.a The annual emissions limitation outlined above is based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with this limit.
- 2.b Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of submerged filling, compliance with the VOC emissions limitation and compliance with the stored material vapor pressure limitation.

**II. Operational Restrictions**

1. The permittee shall not store any material with a vapor pressure greater than or equal to 0.01 psia in this emissions unit.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. The identification and type of each material liquid stored in this emissions unit; and

Issued Final: 7/25/2006

- b. The maximum true vapor pressure, in psia, as stored, of each material.

*(Maximum true vapor pressure is defined as, the equilibrium partial pressure exerted by the stored VOL (Volatile Organic Liquid) at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature.)*

#### IV. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing that any material stored in the tank exceeded the vapor pressure limit in term and condition A.II.1. for this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

#### V. Testing Requirements

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

Emissions Limitation

Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.27 TPY

Applicable Compliance Method

Compliance with the emissions limitation shall be demonstrated by calculating the actual working losses and breathing losses using the Tanks 4.0 emissions estimating software based on equations developed by the American Petroleum Institute documented in AP-42, Section 7.1, Organic Liquid Storage Tanks.

#### VI. Miscellaneous Requirements

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T216) - Tank T3216. 15,000 bbl Vertical Cone Fixed Roof tank storing diesel fuel from Transmix fractional distillation process**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**Issued Final: 7/25/2006**

**VI. Miscellaneous Requirements**

None

Issued Final: 7/25/2006

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T217) - Tank T3217. 15,000 bbl Vertical Cone Fixed Roof tank storing diesel fuel from Transmix fractional distillation process**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.27 TPY.  See term and condition A.II.1.

**2. Additional Terms and Conditions**

- 2.a The annual emissions limitation outlined above is based upon the emissions unit's potential to emit. Therefore, no records are required to demonstrate compliance with this limit.
- 2.b Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of submerged filling, compliance with the VOC emissions limitation and compliance with the stored material vapor pressure limitation.

**II. Operational Restrictions**

1. The permittee shall not store any material with a vapor pressure greater than or equal to 0.01 psia in this emissions unit.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. The identification and type of each material liquid stored in this emissions unit;

**Issued Final: 7/25/2006**

and

- b. The maximum true vapor pressure, in psia, as stored, of each material.

*(Maximum true vapor pressure is defined as, the equilibrium partial pressure exerted by the stored VOL (Volatile Organic Liquid) at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature.)*

#### **IV. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing that any material stored in the tank exceeded the vapor pressure limit in term and condition A.II.1. for this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.

#### **V. Testing Requirements**

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

##### Emissions Limitation

Volatile Organic Compound (VOC) emissions from working losses and breathing losses shall not exceed 0.27 TPY

##### Applicable Compliance Method

Compliance with the emissions limitation shall be demonstrated by calculating the actual working losses and breathing losses using the Tanks 4.0 emissions estimating software based on equations developed by the American Petroleum Institute documented in AP-42, Section 7.1, Organic Liquid Storage Tanks.

#### **VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (T217) - Tank T3217. 15,000 bbl Vertical Cone Fixed Roof tank storing diesel fuel from Transmix fractional distillation process**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None