State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

06/08/00

CERTIFIED MAIL

RE: Preliminary Proposed Title V
Chapter 3745-77 permit

04-48-01-0035
Sun Company, Inc. (R&M) - Toledo Terminal
Mr. Jeffrey J McGill
1801 Market St.
26/10 PC
Philadelphia, PA 19103-1699

Dear Jeffrey J McGill:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 08/27/99. The comment period has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written or with agreed-upon changes, then you have the opportunity to schedule a meeting with us to discuss your concerns.

Please contact Jim Orlemann, Engineering Section Manager, 614-644-3592, or you can telefax your request to (614) 644-3681, within fourteen (14) days from receipt of this letter if a meeting is desired. If a request for a meeting is not received within fourteen (14) days of receipt of this letter, we will forward this proposed permit (as written, or with agreed-upon changes) to USEPA for approval.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Toledo Div of Environmental Services
Becky Castle, DAPC PMU

Ohio EPA
State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 06/08/00

PRELIMINARY PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

Sun Company, Inc. (R&M) - Toledo Terminal
1601 Woodville Road
Toledo, OH 43605

of a Title V permit for Facility ID: 04-48-01-0035

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
J001 (Truck Loading Rack A (gasoline & distillate))
Truck Loading Rack A (gasoline & distillate)

J002 (Truck Loading Rack B (toluene, xylene & mineral spirits)
Truck Loading Rack B (toluene, xylene & mineral spirits

T002 (Tank #7)
Above ground internal floating roof storage tank.

T003 (Tank #8)
Above ground internal floating roof storage tank.

T009 (Tank #14)
Above ground internal floating roof storage tank.

T011 (Tank #9)
Above ground internal floating roof storage tank.

T012 (Tank #6)
Above ground internal floating roof storage tank.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43602-1633
(419) 936-3015

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

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 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 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 promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., 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.) See B.8 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 to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. 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. 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.

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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 reissuance, or modification, or for denial of a permit renewal application.

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, reopened, 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, reopening 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.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that

inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of 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, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.
   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.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted

to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;

b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 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 quarterly, i.e., 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. Records Retention Requirements

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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. 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, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. 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 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. 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 emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

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.

8. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> 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., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

None

B. State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

T005 (Z002) - fixed roof tank, 214,200 gallons for kerosene (tank #10)
T006 (Z003) - fixed roof tank, 651,000 gallons for fuel oil (tank #11)
T007 (Z004) - fixed roof tank, 630,000 gallons for fuel oil #1 (tank #12)
T008 (Z005) - fixed roof tank, 650,000 gallons for fuel oil #2 (tank #13)
T010 (Z006) - fixed roof tank, 10,000 gallons for gasoline additive tank
Z007 - 3,950 gallon heating oil tank for furnace
Z008 - 1,820 Btu furnace for office heat

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emissions limitation and/or control requirements contained within a permit to install for the emissions unit.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Truck Loading Rack A (gasoline & distillate) (J001)

Activity Description: Truck Loading Rack A (gasoline & distillate)

A. State and Federally Enforceable Section

I. 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
truck loading rack A (gasoline & distillate)	40 CFR Part 63, Subpart R	See A.I.2.a through A.I.2.e below.
	40 CFR Part 63, Subpart A	See A.I.2.f below.
	OAC rule 3745-21-09(Q)	This applicable regulation is equal to or less stringent than the requirements established in 40 CFR Part 63, Subpart R.

2. Additional Terms and Conditions

2.a [63.422(b)]
Emissions to the atmosphere from the vapor collection and processing systems due to the loading of the gasoline cargo tanks shall not exceed 10 mg total organic compounds (OC) per liter of gasoline loaded (0.083 pound OC per 1,000 gallons of gasoline loaded).

2.b The permittee shall employ a vapor collection system designed to collect the total OC vapors displaced from tank trucks during product loading.

2.c [60.502(d)]
Each vapor collection system shall be designed to prevent any total OC vapors collected at one loading rack from passing to another loading rack.

2.d The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4,500 pascals (450 mm of water) during loading.

2.e [63.427(b)]
The permittee shall operate the vapor processing system in a manner not to exceed the OC concentration in the exhaust air stream determined during the most recent stack test which demonstrates compliance (currently this value is 0.64 percent OC in the exhaust air stream per two-hour average based on the stack test performed May 7, 1998). Operation of the vapor processing system in a manner exceeding the operating parameter value shall constitute a violation of the emission standard in section A.I.2.a.

2.f This subpart provides applicability provisions, definitions, and other general provisions that are applicable to 40 CFR 63, Subpart R.

II. Operational Restrictions

1. [63.422(c) --> 60.502(e)]
Loadings of liquid product into gasoline cargo tanks shall be limited to vapor-tight gasoline cargo tanks using the following procedures:

a. the permittee shall obtain the vapor tightness documentation, described in section A.III.2.c, for each gasoline cargo tank which is to be loaded at the affected facility;

b. the permittee shall require the tank identification number to be recorded as each gasoline cargo tank is loaded at the facility;

c. the permittee shall cross-check each tank identification number recorded with the file of tank vapor tightness documentation within 2 weeks after the corresponding tank is loaded to verify that the tank is vapor tight;

d. the permittee shall notify the owner or operator of each nonvapor-tight gasoline cargo tank loaded at the affected facility within 3 weeks after the loading has occurred; and

e. the permittee shall take steps assuring that the nonvapor-tight gasoline cargo tank will not be reloaded at the facility until vapor tightness documentation for that gasoline cargo tank is obtained.

2. [63.422 --> 60.502(f)]
The permittee shall act to assure that loadings of gasoline cargo tanks at the affected facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.

3. [63.422 --> 60.502(g)]
The permittee shall act to assure that the terminal's and the cargo tank's vapor collection systems are connected during each loading of a gasoline cargo tank at the affected facility. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the affected loading racks.

4. [63.422 -->60.502(i)]
No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4,500 pascals (450 mm of water).

5. The permittee shall not allow or permit the transfer of gasoline at the bulk gasoline terminal unless the following requirements are met:

a. the loading rack is equipped with a vapor collection system whereby during the transfer of gasoline to any delivery vessel:

i. all vapors displaced from the delivery vessel during loading are vented only to the vapor collection system; and

ii. the pressure in the vapor collection system is maintained between minus six and plus eighteen inches of water gauge pressure;

b. the loading rack is equipped with a vapor control system whereby any liquid gasoline returned to a stationary storage tank from the vapor control system is free of entrained air to the extent possible with good engineering design;

c. a means is provided to prevent drainage of gasoline from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected; and

d. all gasoline loading lines and vapor lines are equipped with fittings which are vapor tight.

6. The permittee shall not permit gasoline to be discarded in sewers.

II. Operational Restrictions (continued)

7. [63.424(g)]
The permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

a. minimize gas spills;

b. clean up spills as expediously as practicable;

c. cover all open gasoline containers with a gasketed seal when not in use; and

d. minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

III. Monitoring and/or Record Keeping Requirements

1. [63.427(a)]
The permittee shall install, calibrate, certify, operate, and maintain, according to the manufacturer's specifications, a carbon adsorption system and a continuous emission monitoring system (CEMS) capable of measuring OC concentrations in the exhaust air stream.

2. [63.428(b)]
The permittee shall keep records of the test results for each gasoline cargo tank loading at the facility as follows:

a. annual certification testing;

b. continuous performance testing performed at any time at this facility; and

c. the documentation file shall be kept up-to-date for each gasoline cargo tank loading at the facility. The documentation for each test shall include, as a minimum, the following information:

i. the name of the test: (i.e., Annual Certification Test -- Method 27; Annual Certification Test -- Internal Vapor Valve; Leak Detection Test; Nitrogen Pressure Decay Field Test; or Continuous Performance Pressure Decay Test);

ii. the cargo tank owner's name and address;

iii. the cargo tank identification number;

iv. the test location and date;

v. the tester name and signature;

vi. the witnessing inspector, if any, including the name, signature, and affiliation;

vii. the vapor tightness repair (which shall include the nature of the repair work and when the work was performed in relation to the vapor tightness testing); and

viii. the test results (which shall include the pressure or vacuum change, the mm of water, the time period of the test, the number of leaks found with the instrument, and the leak definition).

3. [63.428 (c)]
The permittee shall maintain an up-to-date, readily accessible record of the continuous emission monitoring data. The permittee shall record the percent OC concentration per two-hour average during loadings. The date and time of day shall also be indicated at reasonable intervals on this record.

III. Monitoring and/or Record Keeping Requirements (continued)

4. [63.424(a)-(d)] LEAK INSPECTIONS
The permittee shall perform a monthly leak inspection of all equipment in gasoline service. For this inspection, detection methods incorporating sight, sound, and smell are acceptable. Each piece of equipment shall be inspected during the loading of a gasoline cargo tank.

A log book shall be maintained and shall be signed by the permittee at the completion of each leak inspection. A section of the log shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at this facility.

Each detection of a liquid or a vapor leak shall be recorded in the log book. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than 5 calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within 15 calendar days after the detection of each leak.

Delay of repair of leaking equipment will be allowed upon a demonstration to the Ohio EPA that repair within 15 days is not feasible. The permittee shall provide the reason(s) a delay is needed and the date by which each repair is expected to be completed.

5. [63.428(e)]
The permittee shall record the following information in the log book for each leak that is detected:

a. the equipment type and identification number;

b. the nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell);

c. the date the leak was detected and the date of each attempt to repair the leak;

d. the repair methods applied in each attempt to repair the leak;

e. "repair delayed" and the reason for the delay, if the leak is not repaired within 15 calendar days after discovery of the leak;

f. the expected date of successful repair of the leak if the leak is not repaired within 15 days; and

g. the date of successful repair of the leak.

IV. Reporting Requirements

1. [63.428(g)]
The permittee shall provide, in a semiannual report, the following information:

a. each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility; and

b. the number of equipment leaks not repaired within 5 days after detection.

These reports shall be submitted to the U.S. EPA Region 5* and Toledo Division of Environmental Services within 30 days after the end of each semi-annual reporting period (by January 31 and July 31 of each year) and shall cover the previous 6-month reporting period.

*U.S. EPA
Region 5
77 West Jackson Blvd.
Chicago, IL 60604-3590

IV. Reporting Requirements (continued)

2. [63.428(h)]
The permittee shall include in excess emissions reports to U.S. EPA Region 5 and Toledo Division of Environmental Services, the following information:

a. each exceedance or failure to maintain, as appropriate, the monitored operating parameter value (0.64 percent OC concentration per two-hour average) for the vapor processing system (the report shall include the monitoring data for the days on which exceedances or failures to maintain have occurred, and a description and schedule of the steps taken to repair or perform maintainance on the vapor collection and processing systems or the CMS);

b. each instance of a nonvapor-tight gasoline cargo tank loading at the facility in which the permittee failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained;

c. each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with section A.II.1.e; and

d. for each occurrence of an equipment leak for which no repair attempt was made within 5 days or for which repair was not completed within 15 days after detection, the following shall be reported:

i. the date on which the leak was detected;
ii. the date of each attempt to repair the leak;
iii. the reasons for the delay of the repair; and
iv. the date of successful repair.

These excess emissions and continuous monitoring system performance reports shall be submitted on a semi-annual basis. These reports shall be submitted by January 31 and July 31 of each year.

Once the facility reports excess emissions, the facility shall follow a quarterly reporting format until a request to reduce reporting frequency under 40 CFR Part 63.10(e)(3)(ii) is approved. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

10 mg of OC per liter of gasoline

Applicable Compliance Method:

The permittee shall demonstrate compliance through the monitoring and record keeping requirements of section A.III.3.

The permittee shall document the reasons for any change in the operating parameter (0.64 percent OC concentration in the exhaust air stream per two-hour average based on the stack test performed May 7, 1998) established during each performance test.

1.b Emission Limitation:

The gauge pressure in the delivery tank shall not exceed 4,500 pascals (450 mm of water) during loading.

Applicable Compliance Method:

Compliance was demonstrated based upon the results of the performance test conducted on May 7, 1998. The permittee shall demonstrate compliance during future performance tests where the pressure shall be recorded every 5 minutes while a gasoline truck is being loaded; the highest instantaneous pressure that occurs during each loading shall also be recorded.

V. Testing Requirements (continued)

2. The OC CEMs data shall be used to assess ongoing compliance with section A.V.1.a. If required, the permittee shall conduct or have conducted, an emission test(s) for this emissions unit in order to demonstrate ongoing compliance with the allowable emission rate for OC. Should this test be required, it shall be conducted between the months of May through July.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Toledo Division of Environmental Services or Administrators refusal to accept the results of the emission test(s).

A pressure measurement device capable of measuring up to 500 mm of water gauge pressure with plus or minus 2.5 mm of water precision, shall be calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline cargo tank. During the performance test, the pressure shall be recorded every 5 minutes while a gasoline truck is being loaded; the highest instantaneous pressure that occurs during each loading shall also be recorded. Every loading position must be tested at least once during the performance test.

Personnel from the Toledo Division of Environmental Services shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the U.S. EPA Region 5 and Toledo Division of Environmental Services within 30 days following completion of the test(s).

3. Immediately before the performance test, the permittee shall use Method 21 to monitor for leakage of vapor at all potential sources in the terminal's vapor collection system equipment while a gasoline cargo tank is being loaded. The permittee shall repair all leaks with readings of 500 ppm (as methane) or greater before conducting the performance test.

4. [63.425(b)]
For each performance test conducted, the permittee shall determine a monitored operating parameter value that demonstrates compliance for the vapor processing system using the following procedure:

a. During the performance test, continuously record the organic compound concentration in the exhaust air system.

b. Determine an operating parameter value based on the parameter data monitored during the performance test, supplemented by engineering assessments and the manufacturer's recommendation.

c. Provide the Toledo Division of Environmental Services with the rationale for the selected operating parameter value. Include the data and calculations used to develop the value and a description of why the value demonstrates continuous compliance with the emission standard in section A.I.2.a.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Truck Loading Rack B (toluene, xylene & mineral spirits (J002)

Activity Description: Truck Loading Rack B (toluene, xylene & mineral spirits

A. State and Federally Enforceable Section

I. 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
truck loading rack B (toluene, xylene and mineral spirits)	OAC rule 3745-31-05 (PTI 04-911)	16.81 lbs/hr of volatile organic compounds (VOC)
		9.29 tons of VOC per rolling, 12-month period
		15.94 lbs/hr of toluene
		3.68 tons of toluene per rolling, 12-month period
		7.70 lbs/hr of xylene
		1.78 tons of xylene per rolling, 12-month period
		See A.II.1 below.
	40 CFR Part 63, Subpart F	See A.I.2.a below.
	40 CFR Part 63, Subpart G	See A.III.1 below.
	40 CFR Part 63, Subpart H	See A.I.2.b below.
	OAC rule 3745-21-07	See A.I.2.c below.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR 63.102(a) and 63.103(a), emissions units subject to 40 CFR Part 63, Subpart F are also subject to 40 CFR Part 63, Subparts G and H, and the appropriate sections of 40 CFR Part 63, Subpart A as determined by Table 3 of Subpart F. These rules are applicable to the loading rack when in service for toluene and xylene.

2.b The leak detection and repair program pertains to any type of pump, valve or connector in HAP service within emissions unit J002 as determined by table 3 of subpart F (toluene and xylene).

2.c The emission limitations established by OAC rule 3745-21-07 are less stringent than the VOC emission limitations established pursuant to the best available technology requirement specified in OAC rule 3745-31-05 (see B.I.1 below).

II. Operational Restrictions

1. The permittee shall use submerged fill whenever this emissions unit is in operation.

2. The toluene throughput of this emissions unit shall not exceed 1.5 million gallons per month.

3. The xylene throughput of this emissions unit shall not exceed 1.5 million gallons per month.

III. Monitoring and/or Record Keeping Requirements

1. [63.130(f)]
The permittee shall record, update annually and maintain the following information in a readily accessible site:

a. an analysis demonstrating the design and actual annual throughput of the transfer rack;

b. an analysis documenting the weight-percent organic Hazardous Air Pollutants (HAP) in the liquid loaded (examples of acceptable documentation include, but are not limited to, analyses of the material and engineering calculations); and

c. for Group 2 transfer racks that are limited to the transfer of organic HAPs with partial pressures less than 10.3 kilopascals, documentation of the organic HAPs (by compound) that are transferred (the rack weighted average partial pressure does not need to be calculated).

2. [63.162(c)]
Each piece of equipment that is in toluene or xylene service must be identified such that it can be distinguished readily from equipment that is not subject to the 40 CFR 63 Subpart H regulations. Identification of the equipment does not require physical tagging of the equipment. For example, the equipment may be identified on a plant site plan, in log entries, or by designation of process unit boundaries by some form of weatherproof identification.

3. [63.162(f) and (h)]
When a leak is detected as specified in sections A.III.4, A.III.13, and A.V.1.a, the following requirements apply:

a. A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

b. The identification on a valve may be removed after it has been monitored as specified in section A.III.9 and no leak has been detected during the follow-up monitoring. If the permittee elects to comply using the provisions of section A.III.15, the connector may be removed after it has been monitored as specified in section A.III.15 and no leak has been detected during that monitoring.

c. The identification on equipment determined to have a leak, except on a valve or connector subject to section A.III.15, may be removed after it has been repaired.

In all cases where the provisions of this permit require the permittee to repair leaks by a specified time after the leak is detected, it is a violation of this permit to fail to take action to repair the leaks within the specified time. If action is taken to repair the leaks within the specified time, failure of that action to successfully repair the leak is not a violation of this permit. However, if the repairs are unsuccessful, and a leak is detected, then the permittee shall take further action as required by the applicable provisions of this permit.

III. Monitoring and/or Record Keeping Requirements (continued)

4. [63.163(b), (c), and (j)] -- PUMPS IN LIGHT LIQUID SERVICE
The permittee shall monitor each pump monthly to detect leaks by the method specified in section A.V.1. An instrument reading of 1,000 ppm or greater shall indicate a leak for pumps in light liquid service.

Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected.

When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in section A.III.24. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. First attempts at repair include, but are not limited to, the following practices: tightening of packing gland nuts and ensuring that the seal flush is operating at design pressure and temperature. Repair is not required unless an instrument reading of 2,000 ppm or greater is detected.

Any pump that is designated as an unsafe-to-monitor pump is exempt from the requirements of sections A.III.4 and A.III.5 if:

a. the permittee determines that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger; and

b. the permittee has a written plan that requires monitoring of the pump as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable.

If the permittee installs pumps other than single-valve pumps, additional requirements from 40 CFR 63.163 may apply.

5. [63.163(d)]
a. The permittee shall calculate percent leaking pumps on a Chemical Manufacturing Process Unit (CMPU) basis.

b. If calculated on a 6-month, rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak, the permittee shall implement a quality improvement program for pumps that complies with the requirements of section A.III.25.

c. The number of pumps at a process unit shall be the sum of all the pumps in organic HAP service, except that pumps found leaking in a continuous process unit within 1 month after start-up of the pump shall not count in the percent leaking pumps calculation for that one monitoring period only.

d. Percent leaking pumps shall be determined by the following equation:

%PL = ((PL-PS)/(PT-PS))*100

where:

%PL = percent leaking pumps;
PL = number of pumps found leaking as determined through monthly monitoring as required in section A.III.4;
PT = total pumps in organic HAP service;
PS = number of pumps leaking within 1 month of start-up during the current monitoring period.

III. Monitoring and/or Record Keeping Requirements (continued)

6. [63.167(a)] -- OPEN ENDED VALVES OR LINES

a. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair.

b. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

c. When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with section A.III.6.a at all other times.

d. Open-ended valves or lines in an emergency shutdown system which are designed to open automatically in the event of a process upset are exempt from any of the above requirements.

e. Open-ended valves or lines containing materials which would autocatalytically polymerize or, would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in paragraphs a. through c. of this section are exempt from the requirements of paragraph a. through c. of this section.

7. [63.168(b) and (d)] -- VALVES IN GAS/VAPOR SERVICE AND IN LIGHT LIQUID SERVICE

a. The permittee shall monitor all valves at the frequencies specified in section A.III.7.b, except as specified in sections A.III.11 and A.III.12. An instrument reading of 500 ppm or greater using the method specified in section A.V.1 shall indicate a leak for valves in gas/vapor or light liquid service.

b. The permittee shall monitor valves for leaks at the following intervals:

i. At process units with 2 percent or greater leaking valves, calculated according to section A.III.8, the permittee shall monitor each valve once per month.

ii. At process units with less than 2 percent leaking valves, the permittee shall monitor each valve once each quarter, except as provided in the next two paragraphs of this section.

iii. At process units with less than 1 percent leaking valves, the permittee may elect to monitor each valve once every 2 quarters.

iv. At process units with less than 0.5 percent leaking valves, the permittee may elect to monitor each valve once every 4 quarters.

III. Monitoring and/or Record Keeping Requirements (continued)

8. [63.168(e)]
a. Percent leaking valves at a process unit shall be determined by the following equation:

%VL = (VL/(VT+VC))*100

where:

%VL = percent leaking valves as determined through periodic monitoring required in section A.III.7;
VL = number of valves found leaking, excluding nonrepairables as described below;
VT = total valves monitored, in a monitoring period excluding valves monitored as required by section A.III.9;
VC = optional credit for removed valves = 0.67 * net number (i.e., total removed-total added) of valves in organic HAP service removed from process unit after October 24, 1994. If credits are not taken, then VC = 0.

b. To determine monitoring frequency (see section A.III.7), the percent leaking valves shall be calculated as a rolling average of two consecutive monitoring periods for monthly, quarterly, or semiannual monitoring programs; and as an average of any three out of four consecutive monitoring periods for annual monitoring programs.

c. Nonrepairable valves shall be included in the calculation of percent leaking valves the first time the valve is identified as leaking and nonrepairable. Otherwise, a number of nonrepairable valves (identified and included in the percent leaking calculation in a previous period) up to a maximum of 1 percent of the total number of valves in organic HAP service at a process unit may be excluded from calculation of percent leaking valves for subsequent monitoring periods.

i. If the number of nonrepairable valves exceeds 1 percent of the total number of valves in organic HAP service at a process unit, the number of nonrepairable valves exceeding 1 percent of the total number of valves in organic HAP service shall be included in the calculation of percent leaking valves.

9. [63.168(f)]
a. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided by section A.III.24.

b. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

c. When a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair.

i. The monitoring shall be conducted as specified in section A.V.1, as appropriate, to determine whether the valve has resumed leaking.

ii. Periodic monitoring required by section A.III.7 may be used to satisfy the requirements of section A.III.9.c, if the timing of the monitoring period coincides with the time specified in section A.III.9.c.

iii. If a leak is detected by monitoring that is conducted pursuant to section A.III.9.c, the permittee shall count the valve as a leaking valve if the permittee elected to use periodic monitoring required by section A.III.7. If the permittee elected to use other monitoring, prior to the periodic monitoring required by section A.III.7, to satisfy the requirements of section A.III.9, then the valve shall be counted as a leaking valve unless it is repaired and shown by periodic monitoring not to be leaking.

10. [63.168(g)]
First attempts at repair include, but are not limited to, the following practices where practicable:

a. tightening of bonnet bolts;

b. replacement of bonnet bolts;

c. tightening of packing gland nuts; and

d. injection of lubricant into lubricated packing.

III. Monitoring and/or Record Keeping Requirements (continued)

11. [63.168(h)]
Any valve that is designated, as described in section A.III.20.b.i, as an unsafe-to-monitor valve is exempt from the requirements of sections A.III.7, A.III.8, and A.III.9 if:

a. the permittee determines that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with sections A.III.7, A.III.8, and A.III.9;

b. the permittee has a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable; and

c. the permittee has a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times.

12. [63.168(i)]
Any valve that is designated as a difficult-to-monitor valve is exempt from the requirements of sections A.III.7, A.III.8, and A.III.9 if:

a. the permittee determines that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner;

b. the process unit within which the valve is located is an existing source or the permittee designates less than 3 percent of the total number of valves in a new source as difficult-to-monitor; and

c. the permittee follows a written plan that requires monitoring of the valve at least once per calendar year.

13. [63.174(a)] -- CONNECTORS IN GAS/VAPOR SERVICE & IN LIGHT LIQUID SERVICE
The permittee shall monitor all connectors in gas/vapor and light liquid service at the intervals specified in section A.III.14.

a. The connectors shall be monitored to detect leaks by the method specified in section A.V.1.

b. If an instrument reading greater than or equal to 500 parts per million is measured, a leak is detected.

14. [63.174(b)] -- CONNECTORS IN GAS/VAPOR SERVICE & IN LIGHT LIQUID SERVICE
The permittee shall perform all subsequent monitoring of connectors at the frequencies specified in the following except those that are unsafe-to-monitor or inaccessible as described in section A.III.17:

a. Once per year (i.e., 12-month period), if the percent leaking connectors in the process unit was 0.5 percent or greater during the last required annual or biennial monitoring period.

b. Once every 2 years, if the percent leaking connectors was less than 0.5 percent during the last required monitoring period. The permittee may comply with this paragraph by monitoring at least 40 percent of the connectors in the first year and the remainder of the connectors in the second year. The percent leaking connectors will be calculated for the total of all monitoring performed during the 2-year period.

c. If the permittee of a process unit in a biennial leak detection and repair program calculates less than 0.5 percent leaking connectors from the 2-year monitoring period, the permittee may monitor the connectors one time every 4 years. The permittee may comply with the requirements of this paragraph by monitoring at least 20 percent of the connectors each year until all connectors have been monitored within 4 years.

d. If a process unit complying with the requirements of section A.III.14 using a 4-year monitoring interval program has greater than or equal to 0.5 percent, but less than 1 percent leaking connectors, the permittee shall increase the monitoring frequency to one time every 2 years. A permittee may comply with the requirements of this paragraph by monitoring at least 40 percent of the connectors in the first year and the remainder of the connectors in the second year. The permittee may again elect to use the provisions of section A.III.14.c of this section when the percent leaking connectors decreases to less than 0.5 percent.

III. Monitoring and/or Record Keeping Requirements (continued)

e. If a process unit complying with the requirements of section A.III.14.c using a 4-year monitoring interval program has 1 percent or greater leaking connectors, the permittee shall increase the monitoring frequency to one time per year. The permittee may again elect to use the provisions of section A.III.14.c when the percent leaking connectors decreases to less than 0.5 percent.

f. The use of monitoring data generated before April 22, 1994 to qualify for less frequent monitoring is governed by the provisions of 40 CFR 63.180(b)(6).

15. [63.174(c)(2)]
As an alternative to the requirements of section A.III.14, each screwed connector 2 inches or less in nominal inside diameter installed in a process unit before the date of December 31, 1992 or before the date of proposal of the applicable subpart that references 40 CFR Part 63, Subpart H may be monitored for leaks within the first 3 months after being returned to organic HAPs service after having been opened or otherwise had the seal broken. If that monitoring detects a leak, it shall be repaired according to the provisions of section A.III.16.

[63.174(c)]
Each connector that has been opened or has otherwise had the seal broken shall be monitored for leaks when it is reconnected or within the first 3 months after being returned to organic HAPs service. If the monitoring detects a leak, it shall be repaired according to the provisions in section A.III.16, unless it is determined to be nonrepairable, in which case it is counted as a nonrepairable connector.

As an alternative to the requirements in the above paragraph, the permittee may choose not to monitor connectors that have been opened or otherwise had the seal broken. In this case, the permittee may not count nonrepairable connectors for the purposes of section A.III.18.a. The permittee shall calculate the percent leaking connectors for the monitoring periods described in section A.III.14, by setting the nonrepairable component, CAN, in the equation in section A.III.18.a to zero for all monitoring periods.

The permittee may switch alternatives described in the first two paragraphs of this section at the end of the current monitoring period, provided that it is reported as required in section A.IV.2 and begin the new alternative in annual monitoring. The initial monitoring in the new alternative shall be completed no later than 12 months after reporting the switch.

16. [63.174(d)]
When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected. A first attempt at repair shall be made no later than 5 calendar days after the leak is detected. Connectors designated as unsafe-to-monitor or unsafe-to-repair, as described in section A.III.17, or inaccessible as described in section A.III.17, are exempt from this requirement.

17. [63.174(f), (g) and (h)]
Any connector that is designated as an unsafe-to-monitor connector is exempt from the requirements of section A.III.13.a if:

a. the permittee determines that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with sections A.III.13 through A.III.16; and

b. the permittee has a written plan that requires monitoring of the connector as frequently as practicable during safe to monitor periods, but not more frequently than the periodic schedule that is otherwise applicable.

Any connector that is designated as an unsafe-to-repair connector is exempt from sections A.III.13 through A.III.16, if the permittee determines that repair personnel would be exposed to immediate danger as a consequence of complying with section A.III.16 and the connector will be repaired before the end of the next scheduled process unit shutdown.

Any connector that is inaccessible is exempt from the monitoring requirements of sections A.III.13 and A.III.15 and from the recordkeeping and reporting requirements of sections A.III.19 through A.III.22.

III. Monitoring and/or Record Keeping Requirements (continued)

[63.174(h)] (continued)
Inaccessible connectors are defined as follows:

a. buried;
b. insulated in a manner that prevents access to the connector by a monitor probe;
c. obstructed by equipment or piping that prevents access to the connector by a monitor probe;
d. unable to be reached from a wheeled scissor-lift or hydraulic-type scaffold which would allow access to connectors up to 7.6 meters (25 feet) above the ground;
e. inaccessible because it would require elevating the monitoring personnel more than 2 meters above a permanent support surface or would require the erection of scaffold; or
f. not able to be accessed at any time in a safe manner to perform monitoring. Unsafe access includes, but is not limited to, the use of a wheeled scissor-lift on unstable or uneven terrain, the use of a motorized man-lift basket in areas where an ignition potential exists, or access would require near proximity to hazards such as electrical lines, or would risk damage to equipment.

If any inaccessible connector is observed by visual, audible, olfactory, or other means to be leaking, the leak shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in the first paragraph of section A.III.17.

A first attempt at repair shall be made no later than 5 calendar days after the leak is detected.

18. [63.174(i)]
For use in determining the monitoring frequency, as specified in section A.III.14, the percent leaking connectors shall be calculated as specified below:

18.a Use the following equation:

% CL = [(CL-CAN)/(Ct+CC)] * 100

where:

% CL = percent leaking connectors as determined through periodic monitoring required in sections A.III.13 and A.III.14;
CL = number of connectors, including nonrepairables, measured at 500 parts per million or greater, by the method specified in specified in section A.V.1;
CAN = number of allowable nonrepairable connectors, as determined by monitoring required in sections A.III.14 and A.III.15, not to exceed 2 percent of the total connector population, Ct;
Ct = total number of monitored connectors, including nonrepairables, in the process unit; and
CC = optional credit for removed connectors = 0.67 * net number (i.e., total removed - total added) of connectors in organic HAPs service removed from the process unit after the compliance date set forth in the applicable subpart for existing process units, and after October 24, 1994. If credits are not taken, then CC = 0.

19. [63.181(a)] -- RECORDKEEPING REQUIREMENTS
The permittee of more than one process unit may comply with the record keeping requirements for these process units in one record keeping system if the system identifies each record by process unit and the program being implemented (e.g., quarterly monitoring, quality improvement) for each type of equipment. All records and information required by this section shall be maintained in a manner that can be readily accessed at the plant site. This could include physically locating the records at the plant site or accessing the records from a central location by computer at the plant site.

III. Monitoring and/or Record Keeping Requirements (continued)

20. [63.181(b)]
The following information pertaining to all equipment in each process unit subject to the above requirements shall be recorded:

a. A list of identification numbers for equipment except connectors exempt from monitoring and recordkeeping identified in sections A.III.13 through A.III.18. Connectors need not be individually identified if all connectors in a designated area or length of pipe are identified as a group, and the number of connectors subject is indicated.

b. A schedule by process unit for monitoring connectors subject to the provisions of section A.III.13 and valves subject to the provisions of section A.III.7.

c. Physical tagging of the equipment to indicate that it is in organic HAP service is not required. Equipment subject to the provisions of this permit may be identified on a plant site plan, in log entries, or by other appropriate methods.

The following information pertaining to all pumps subject to section A.III.4, valves subject to sections A.III.11 and A.III.12, and connectors subject to the section A.III.17 shall be recorded:

a. Identification of equipment designated as unsafe to monitor, difficult to monitor, or unsafe to inspect and the plan for monitoring or inspecting this equipment.

b. A list of identification numbers for the equipment that is designated as difficult to monitor, an explanation of why the equipment is difficult to monitor, and the planned schedule for monitoring this equipment.

c. A list of identification numbers for connectors that are designated as unsafe to repair as specified in section A.III.17 and an explanation why the connector is unsafe to repair.

c. A list of valves removed from and added to the process unit, as described in section A.III.8, if the net credits for removed valves is expected to be used.

d. A list of connectors removed from and added to the process unit, as described in section A.III.18, and documentation of the integrity of the weld for any removed connectors. This is not required unless the net credits for removed connectors is expected to be used.

21. [63.181(c)]
For visual inspections of equipment, the permittee shall document that the inspection was conducted and the date of the inspection. The permittee shall maintain records as specified in section A.III.22 for leaking equipment identified in this inspection.

III. Monitoring and/or Record Keeping Requirements (continued)

22. [63.181(d)]
When each leak is detected, the following information shall be recorded:

a. the instrument and equipment identification number and the operator name, initials, or identification number;

b. the date the leak was detected and the date of first attempt to repair the leak;

c. the date of successful repair of the leak;

d. maximum instrument reading measured by Method 21 of 40 CFR Part 60, Appendix A after it is successfully repaired or determined to be nonrepairable;

e. "repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak;

i. the permittee may develop a written procedure that identifies the conditions that justify a delay of repair (The written procedures may be included as part of the startup/shutdown/malfunction plan, required by 40 CFR 63.6(e)(3), for the source or may be part of a separate document that is maintained at the plant site. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure.); and

ii. if delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked on-site before depletion and the reason for depletion;

f. dates of process unit shutdowns that occur while the equipment is unrepaired;

g. identification, either by list, location (area or grouping), or tagging of connectors that have been opened or otherwise had the seal broken since the last monitoring period required in section A.III.14, unless the permittee elects to comply with the alternatives in section A.III.15; and

h. the date and results of monitoring as required in section A.III.15 (If identification of connectors that have been opened or otherwise had the seal broken is made by location as stated in section A.III.22.g, then all connectors within the designated location shall be monitored.).

23. The permittee shall maintain monthly records of the following:

a. the toluene throughput, in gallons;

b. the rolling, 12-month summation of the toluene throughput, in gallons;

c. the xylene throughput, in gallons;

d. the rolling, 12-month summation of the xylene throughput, in gallons;

e. the mineral spirits throughput, in gallons;

f. the rolling, 12-month summation of the mineral spirits throughput, in gallons;

g. the monthly and the rolling, 12-month summation of toluene emissions, in tons (i.e., see section A.V.4 for the calculation);

h. the monthly and the rolling, 12-month summation of xylene emissions, in tons (i.e., see section A.V.4 for the calculation); and

i. the monthly and the rolling, 12-month summation of VOC emissions, in tons (i.e., see section A.V.4 for the calculation).

III. Monitoring and/or Record Keeping Requirements (continued)

24. [63.171] -- STANDARDS: DELAY OF REPAIR
a. Delay of repair of equipment for which leaks have been detected is allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur by the end of the next process unit shutdown.

b. Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in organic HAP service.

c. Delay of repair for valves and connectors are also allowed if:

i. the permittee determines that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair; and

ii. when repair procedures are effected, the purged material is collected and destroyed or recovered in a control device.

d. Delay of repair for pumps is also allowed if:

i. repair requires replacing the existing seal design with a new system that the permittee has determined under the provisions of section A.III.25.c (Quality Improvement Program for Pumps) that will provide better performance or:

(a) a dual mechanical seal system;
(b) a pump that is designed with no externally actuated shaft penetrating the pump housing; or
(c) a closed-vent system and control device capable of capturing and transporting any leakage from the seal to a process or to a fuel gas system or to a control device; and

ii. repair is completed as soon as practicable, but not later than 6 months after the leak was detected.

e. Delay of repair beyond a process unit shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit shutdown will not be allowed unless the third process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

25. [63.176] QUALITY IMPROVEMENT PROGRAM FOR PUMPS
If, on a 6-month, rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak, the permittee shall comply with the requirements specified in section A.III.25.

a. The permittee shall comply with the requirements of section A.III.25 until the number of leaking pumps is less than the greater of 10 percent of the pumps or three pumps, calculated as a 6-month, rolling average. Once the performance level is achieved, the permittee shall comply with the requirements in sections A.III.4 and A.III.5.

b. If in a subsequent monitoring period, the process unit has greater than 10 percent of the pumps leaking or three pumps leaking (calculated as a 6-month rolling average), the permittee shall resume the quality improvement program starting at performance trials.

III. Monitoring and/or Record Keeping Requirements (continued)

c. The quality improvement program shall include the following:

i. The permittee shall comply with the requirements in sections A.III.4 and A.III.5.

ii. The permittee shall collect the following data, and maintain records as required in section A.III.26.a, for each pump subject to the quality improvement program. The data may be collected and the records may be maintained on a process unit basis.

(a) pump type (e.g., piston, horizontal or vertical centrifugal, gear, bellows), pump manufacturer, seal type and manufacturer, pump design (e.g., external shaft, flanged body), materials of construction, if applicable, barrier fluid or packing material, and year installed;
(b) service characteristics of the stream such as discharge pressure, temperature, flow rate, corrosivity, and annual operating hours;
(c) the maximum instrument readings observed in each monitoring observation before repair, response factor for the stream if appropriate, instrument model number, and date of the observation;
(d) if a leak is detected, the repair methods used and the instrument readings after repair; and
(e) if the data will be analyzed as part of a larger analysis program involving data from other plants or other types of process units, a description of any maintenance or quality assurance programs used in the process unit that are intended to improve emission performance.

iii. The permittee shall continue to collect data on the pumps as long as the process unit remains in the quality improvement program.

iv. The permittee shall inspect all pumps or pump seals which exhibited frequent seal failures and were removed from the process unit due to leaks. The inspection shall determine the probable cause of the pump seal failure or of the pump leak and shall include recommendations, as appropriate, for design changes or changes in specifications to reduce leak potential.

v. The permittee shall analyze the data collected to comply with the requirements of section A.III.25.c.ii to determine the services, operating or maintenance practices, and pump or pump seal designs or technologies that have poorer than average emission performance and those that have better than average emission performance. The analysis shall determine if specific trouble areas can be identified on the basis of service, operating conditions or maintenance practices, equipment design, or other process specific factors.

(a) The analysis shall also be used to determine if there are superior performing pump or pump seal technologies that are applicable to the service(s), operating conditions, or pump or pump seal designs associated with poorer than average emission performance. A superior performing pump or pump seal technology is one with a leak frequency of less than 10 percent for specific applications in the process unit or plant site. A candidate superior performing pump or pump seal technology is one demonstrated or reported in the available literature or through a group study as having low emission performance and as being capable of achieving less than 10 percent leaking pumps in the process unit.
(b) The analysis should include consideration of:
(i) the data obtained from the inspections of pumps and pump seals removed from the process unit due to leaks;
(ii) information from the available literature and from the experience of other plant sites that will identify pump designs or technologies and operating conditions associated with low emission performance for specific services; and
(iii) information on limitations on the service conditions for the pump seal technology operating conditions as well as information on maintenance procedures to ensure continued low emission performance.

(d) The data analysis may be conducted through an inter- or intra-company program (or through some combination of the two approaches) and may be for a single process unit, a plant site, a company, or a group of process units.
(e) The first analysis of the data shall be completed no later than 18 months after the start of the quality improvement program. The first analysis shall be performed using a minimum of 6 months of data. An analysis of the data shall be done each year the process unit is in the quality improvement program.

III. Monitoring and/or Record Keeping Requirements (continued)

vi. A trial evaluation program shall be conducted at each plant site for which the data analysis does not identify use of superior performing pump seal technology or pumps that can be applied to the areas identified as having poorer than average performance, except as provided in section A.III.25.c.vi.(e). The trial program shall be used to evaluate the feasibility of using the pump designs or seal technologies, and operating and maintenance practices that have been identified by others as having low emission performance.

(a) The trial program shall include on-line trials of pump seal technologies or pump designs and operating and maintenance practices that have been identified in the available literature or in analysis by others as having the ability to perform with leak rates below 10 percent in similar services, as having low probability of failure, or as having no external actuating mechanism in contact with the process fluid. If any of the candidate superior performing pump seal technologies or pumps is not included in the performance trials, the reasons for rejecting specific technologies from consideration shall be documented as required in section A.III.26.c.ii.
(b) The number of pump seal technologies or pumps in the trial evaluation program shall be the lesser of 1 percent or two pumps for programs involving single process units. The minimum number of pumps or pump seal technologies in a trial program shall be one.

(c) The trial evaluation program shall specify and include documentation of:
(i) the candidate superior performing pump seal designs or technologies to be evaluated, the stages for evaluating the identified candidate pump designs or pump seal technologies, including the time period necessary to test the applicability;
(ii) the frequency of monitoring or inspection of the equipment;
(iii) the range of operating conditions over which the component will be evaluated; and
(iv) conclusions regarding the emission performance and the appropriate operating conditions and services for the trial pump seal technologies or pumps.
(d) The performance trials shall initially be conducted, at least, for a 6-month period beginning not later than 18 months after the start of the quality improvement program. No later than 24 months after the start of the quality improvement program, the permittee shall have identified pump seal technologies or pump designs that, combined with appropriate process, operating, and maintenance practices, operate with low emission performance for specific applications in the process unit. The permittee shall continue to conduct performance trials as long as no superior performing design or technology has been identified, except as provided in section A.III.25.c.vi.(f). The initial list of superior emission performance pump designs or pump seal technologies shall be amended in the future, as appropriate, as additional information and experience is obtained.

(e) Any plant site with fewer than 400 valves and owned by a corporation with fewer than 100 employees shall be exempt from trial evaluations of pump seals or pump designs. Plant sites exempt from the trial evaluations of pumps shall begin the pump seal or pump replacement program at the start of the fourth year of the quality improvement program.

(f) The permittee who has conducted performance trials on all alternative superior emission performance technologies suitable for the required applications in the process unit may stop conducting performance trials provided that a superior performing design or technology has been demonstrated or there are no technically feasible alternative superior technologies remaining. The permittee shall prepare an engineering evaluation documenting the physical, chemical, or engineering basis for the judgment that the superior emission performance technology is technically infeasible or demonstrating that it would not reduce emissions.

III. Monitoring and/or Record Keeping Requirements (continued)

vii. The permittee shall prepare and implement a pump quality assurance program that details purchasing specifications and maintenance procedures for all pumps and pump seals in the process unit. The quality assurance program may establish any number of categories, or classes, of pumps as needed to distinguish among operating conditions and services associated with poorer than average emission performance as well as those associated with better than average emission performance. The quality assurance program shall be developed considering the findings of the data analysis required under section A.III.25.c.v, if applicable, the findings of the trial evaluation required in section A.III.25.c.vi, and the operating conditions in the process unit. The quality assurance program shall be updated each year as long as the process unit has the greater of either 10 percent or more leaking pumps or has three leaking pumps.

(a) The quality assurance program shall:
(i) establish minimum design standards for each category of pumps or pump seal technology. The design standards shall specify known critical parameters such as tolerance, manufacturer, materials of construction, previous usage, or other applicable identified critical parameters;
(ii) require that all equipment orders specify the design standard (or minimum tolerances) for the pump or the pump seal;
(iii) provide for an audit procedure for quality control of purchased equipment to ensure conformance with purchase specifications (the audit program may be conducted by the permittee of the process unit or by a designated representative); and
(iv) detail off-line pump maintenance and repair procedures. These procedures shall include provisions to ensure that rebuilt or refurbished pumps and pump seals will meet the design specifications for the pump category and will operate such that emissions are minimized.

(b) The quality assurance program shall be established no later than the start of the third year of the quality improvement program for plant sites with 400 or more valves or 100 or more employees.

viii. Beginning at the start of the third year of the quality improvement program for plant sites with 400 or more valves or 100 or more employees, the permittee shall replace, as described sections A.III.25.c.viii.(a) and (b), the pumps or pump seals that are not superior emission performance technology with pumps or pump seals that have been identified as superior emission performance technology and that comply with the quality assurance standards for the pump category. Superior emission performance technology is that category or design of pumps or pump seals with emission performance which, when combined with appropriate process, operating, and maintenance practices, will result in less than 10 percent leaking pumps for specific applications in the process unit or plant site. Superior emission performance technology includes material or design changes to the existing pump, pump seal, seal support system, installation of multiple mechanical seals or equivalent, or pump replacement.

(a) Pumps or pump seals shall be replaced at the rate of 20 percent per year based on the total number of pumps in light liquid service. The calculated value shall be rounded to the nearest nonzero integer value. The minimum number of pumps or pump seals shall be one. Pump replacement shall continue until all pumps subject to the requirements of section A.III.4 and A.III.5 are pumps determined to be superior performance technology.
(b) The permittee may delay replacement of pump seals or pumps with superior technology until the next planned process unit shutdown, provided the number of pump seals and pumps replaced is equivalent to the 20 percent or greater annual replacement rate.
(c) The pumps shall be maintained as specified in the quality assurance program.

26. [63.181(h)]
The permittee subject to the requirements of section A.III.25 shall maintain the records specified in the following paragraphs of section A.III.26 for the period of the quality improvement program.

[63.181(h)(1)]
a. For permittees subject to the requirements of the pump quality improvement program as specified in section A.III.25:

i. all data required in section A.III.25.c.ii;
ii. the rolling average percent leaking pumps;
iii. documentation of all inspections conducted under the requirements of section A.III.25.c.iv, and any recommendations for design or specification changes to reduce leak frequency; and
iv. the beginning and ending dates while meeting the requirements of section A.III.25.c.

III. Monitoring and/or Record Keeping Requirements (continued)

b. If a leak is not repaired within 15 calendar days after discovery of the leak, the reason for the delay and the expected date of successful repair.

c. Records of all analyses required in section A.III.25.c. The records shall include the following:
i. a list identifying areas associated with poorer than average performance and the associated service characteristics of the stream, the operating conditions and maintenance practices;
ii. the reasons for rejecting specific candidate superior emission performing valve or pump technology from performance trials;
iii. the list of candidate superior emission performing pump technologies, and documentation of the performance trial program items required under section A.III.25.c.vi.(c); and
iv. the beginning date and duration of performance trials of each candidate superior emission performing technology.

d. All records documenting the quality assurance program for pumps as specified in section A.III.25.c.vii.

e. Records indicating that all pumps replaced or modified during the period of the quality improvement program are in compliance with the quality assurance requirements in section A.III.25.c.vii.

f. Records documenting compliance with the 20 percent or greater annual replacement rate for pumps as specified in Section A.III.25.c.viii.

27. The permittee shall maintain records that document any time periods when submerged fill was not used when the emissions unit was in operation.

28. [63.162(b)]
A permittee may request a determination of alternative means of emission limitation to the requirements of 40 CFR 63.163 through 63.170, and 40 CFR 63.172 through 63.174 of subpart H as provided in 40 CFR 63.177.

If the Administrator makes a determination that a means of emission limitation is a permissible alternative to the requirements of 40 CFR 63.163 through 63.170, and 40 CFR 63.172 through 63.174 of subpart H, the permittee shall comply with the alternative.

29. [63.162(g)]
Except as provided in paragraph a. of this section, all terms in 40 CFR 63 subpart H that define a period of time for completion of required tasks (e.g., weekly, monthly, quarterly, annual), refer to the standard calendar periods unless specified otherwise in the section or subsection that imposes the requirement.

a. If the initial compliance date does not coincide with the beginning of the standard calendar period, the permittee may elect to utilize a period beginning on the compliance date, or may elect to comply in accordance with the provisions of paragraphs b. or c. of this section.

b. Time periods specified in 40 CFR 63, subpart H for completion of required tasks may be changed by mutual agreement between the permittee and the Administrator, as specified in 40 CFR 63. subpart A. For each time period that is changed by agreement, the revised period shall remain in effect until it is changed. A new request is not necessary for each recurring period.

c. Except as provided in paragraph a. or b. of this section, where the period specified for compliance is a standard calendar period, if the initial compliance date does not coincide with the beginning of the calendar period, compliance shall be required according to the schedule specified in paragraphs c.i. or c.ii. of this section, as appropriate.
i. Compliance shall be required before the end of the standard calendar period within which the compliance deadline occurs, if there remain at least 3 days for tasks that must be performed weekly, at least 2 weeks for tasks that must be performed monthly, at least 1 month for tasks that must be performed each quarter, or at least 3 months for tasks that must be performed annually; or
ii. In all other cases, compliance shall be required before the end of the first full standard calendar period after the period within which the initial compliance deadline occurs.

d. In all instances where a provision of 40 CFR 63, subpart H requires completion of a task during each of multiple successive periods, the permittee may perform the required task at any time during each period, provided the task is conducted at a reasonable interval after completion of the task during the previous period.

IV. Reporting Requirements

1. [63.182(d)(1)]
A report containing the information in section A.IV.2 shall be submitted semiannually, within 30 days after the end of each reporting period. The two reporting periods shall cover the first 6 months from January 1 to June 30 and the subsequent reporting period shall cover the 6 month period from July 1 to December 31.

2. [63.182(d)(2)]
For each process unit subject to the leak detection and monitoring requirements of this permit, the following report summary is listed below for each monitoring period during the 6-month period:

a. the number of valves for which leaks were detected, the percent leakers, and the total number of valves monitored;

b. the number of valves for which leaks were not repaired, identifying the number of those that are determined nonrepairable;

c. the number of pumps for which leaks were detected, the percent leakers, and the total number of pumps monitored;

d. the number of pumps for which leaks were not repaired;

e. the number of connectors for which leaks were detected, the percent of connectors leaking, and the total number of connectors monitored;

f. the number of connectors for which leaks were not repaired, identifying the number of those that are determined nonrepairable; and

g. the facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible.

3. The permittee shall submit annual deviation (excursion) reports which identify all exceedences of the annual emission limitation for VOC. The reports shall be submitted by January 31 of each year and shall address the data obtained during the previous 12 calendar months.

4. The permittee shall submit deviation (excursion) reports that identify each day when submerged fill was not used for this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

5. The permittee shall submit semi-annual deviation (excursion) reports which include the following information:

a. an identification of each month during which the toluene throughput exceeded 1.5 million gallons; and

b. an identification of each month during which the xylene throughput exceeded 1.5 million gallons.

The first reporting period shall cover the first 6 months from January 1 to June 30 and the subsequent reporting period shall cover the 6 month period from July 1 to December 31.

6. The permittee shall also submit annual reports which specify the total VOC, toluene, and xylene emissions, in tons, (along with supporting calculations) from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. [63.180(b)]
The permittee shall comply with the following test method and procedure requirements:

V. Testing Requirements (continued)

Monitoring for HAP or VOC leaks shall comply with Method 21 of 40 CFR Part 60, Appendix A.

a. Except as provided for in section A.V.1.b, the detection instrument shall meet the performance criteria of Method 21 of 40 CFR Part 60, Appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 shall be for the average composition of the process fluid not each individual VOC in the stream. For process streams that contain nitrogen, water, air, or other inerts which are not organic HAPs or VOCs, the average stream response factor may be calculated on an inert-free basis. The response factor may be determined at any concentration for which monitoring for leaks will be conducted.

b. If no instrument is available at the plant site that will meet the performance criteria specified in section A.V.1.a, the instrument readings may be adjusted by multiplying by the average response factor of the process fluid, calculated on an inert-free basis as described in section A.V.1.a.

c. The instrument shall be calibrated before use, on each day of its use, by the procedures specified in Method 21 of 40 CFR Part 60, Appendix A.

d. Calibration gases shall be:

i. zero air (less than 10 parts per million of hydrocarbon in air); and

ii. mixtures of methane in air at the concentrations specified in this section. A calibration gas other than methane in air may be used if the instrument does not respond to methane or if the instrument does not meet the performance criteria specified in section A.V.1.a. In such cases, the calibration gas may be a mixture of one or more of the compounds to be measured in air. A mixture of methane or other compounds, as applicable, and air at a concentration of approximately, but less than, 1,000 ppm for all pumps and 500 ppm for all other equipment, except as provided in section A.V.1.d.iii.

iii. The instrument may be calibrated at a higher methane concentration than the concentration specified for that piece of equipment. The concentration of the calibration gas may exceed the concentration specified as a leak by no more than 2,000 parts per million. If the monitoring instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,000 parts per million above the concentration specified as a leak and the highest scale shall be calibrated with a calibration gas that is approximately equal to 10,000 parts per million. If only one scale on an instrument will be used during monitoring, the permittee need not calibrate the scales that will not be used during that day's monitoring.

e. Monitoring shall be performed when the equipment is in organic HAP service, in use with an acceptable surrogate volatile organic compound which is not an organic HAP, or is in use with any other detectable gas or vapor.

V. Testing Requirements (continued)

2. [63.180(d)]
Each piece of equipment within a process unit that can reasonably be expected to contain equipment in organic HAP service is presumed to be in organic HAP service unless the permittee demonstrates that the piece of equipment is not in organic HAP service. For a piece of equipment to be considered not in organic HAP service, it must be determined that the percent organic HAP content can be reasonably expected not to exceed 5 percent by weight on an annual average basis. For purposes of determining the percent organic HAP content of the process fluid that is contained in or contacts equipment, Method 18 of 40 CFR Part 60, Appendix A shall be used.

The permittee may use good engineering judgment rather than the procedures in the above paragraph to determine that the percent organic HAP content does not exceed 5 percent by weight. When the permittee and the Administrator do not agree on whether a piece of equipment is not in organic HAP service, however, the procedures in the above paragraph shall be used to resolve the disagreement.

Conversely, the permittee may determine that the organic HAP content of the process fluid does not exceed 5 percent by weight by, for example, accounting for 98 percent of the content and showing that organic HAP is less than 3 percent.

If the permittee determines that a piece of equipment is in organic HAP service, the determination can be revised after following the procedures in the first paragraph of this section, or by documenting that a change in the process or raw materials no longer causes the equipment to be in organic HAP service.

Samples used in determining the percent organic HAP content shall be representative of the process fluid that is contained in or contacts the equipment.

3. [63.180(c)]
When equipment subject to a leak definition of 500 ppm is monitored for leaks, the permittee may elect to adjust or not to adjust the instrument readings for background. If the permittee elects to not adjust instrument readings for background, the permittee shall monitor the equipment according to the procedures specified in section A.V.1.a through A.V.1.d. In such case, all instrument readings shall be compared directly to the applicable leak definition to determine whether there is a leak. If the permittee elects to adjust instrument readings for background, the permittee shall monitor the equipment according to the procedures specified below:

a. The requirements of section A.V.1.a through A.V.1.d shall apply.

b. The background level shall be determined, using the same procedures that will be used to determine whether the equipment is leaking.

c. The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21 of 40 CFR Part 60, Appendix A.

d. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 parts per million for determining compliance.

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

4.a Emission Limitation:

9.29 tons of VOC per rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23. The emission rate (lbs of VOC per 1,000 gallons) can be calculated using the formula from AP-42, section 4.4 (pg. 4.4-5 (9/85)). Multiply the emission rate (i.e., toluene, xylene and mineral spirits) by the respective rolling, 12-month throughput of toluene, xylene or mineral spirits. Add the three together and convert to tons per year.

V. Testing Requirements (continued)

4.b Emission Limitation:

3.68 tons of toluene per rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23. This emission limitation shall be calculated using the equation from AP-42, section 4.4 (pg. 4.4-5 (9/85)) and the rolling, 12-month summation of the throughput for toluene.

4.c Emission Limitation:

1.78 tons of xylene per rolling, 12-month period

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23. This emission limitation shall be calculated using the equation from AP-42, section 4.4 (pg. 4.4-5 (9/85)) and the rolling, 12-month summation of the throughput for xylene.

4.d Emission Limitation:

15.94 lbs/hr of toluene

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23. and calculated using the equation from AP-42, section 4.4 (pg. 4.4-5 (9/85)) and the maximum average hourly throughput (from the month) for toluene.

4.e Emission Limitation:

7.70 lbs/hr of xylene

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23 and calculated using the equation from AP-42, section 4.4 (pg. 4.4-5 (9/85)) and the maximum average hourly throughput (from the month) for xylene.

4.f Emission Limitation:

16.81 lbs/hr of VOC

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.23 and calculated using the equation from AP-42, section 4.4 (pg. 4.4-5 (9/85)) and the maximum average hourly throughput (from the month) for toluene, xylene, and mineral spirits.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank #7 (T002)

Activity Description: Above ground internal floating roof storage tank.

A. State and Federally Enforceable Section

I. 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
internal floating roof storage tank with a capacity of 564,539 gallons	OAC rule 3745-21-09(L)	See A.I.2.a and A.I.2.b below.
	40 CFR Part 63, Subpart R	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee shall insure that the automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports. The rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or shall be at the manufacturer's recommended setting.

2.b The permittee shall equip all openings, except stub drains, with a cover, seal or lid, which shall be in a closed position at all times except when in actual use for tank gauging or sampling.

2.c The permittee of the storage vessel shall equip each storage vessel with a fixed roof in combination with an internal floating roof meeting the following specifications:

i. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

ii. The internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

(a) a foam-filled or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal) (a liquid-mounted seal means a foam-filled 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); or

(b) 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.); or

(c) 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).

2. Additional Terms and Conditions (continued)

iii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

a. the types of petroleum liquids stored in the tank; and
b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

2. 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 permittee shall repair the items before filling the storage vessel.

3. 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 permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Toledo Division of Environmental Services in the inspection report required in the reporting requirements, section A.IV.1. 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.

4. For vessels equipped with a double-seal system, the permittee shall visually inspect the vessel as specified in section A.III.3. of the monitoring and record keeping requirements.

5. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed.

If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

6. Records must be kept of each inspection performed. Each record shall identify the storage vessel on which the inspection was performed, the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

7. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

IV. Reporting Requirements

1. If any of the conditions described in the monitoring and record keeping requirements, in section A.III.2, are detected during the annual visual inspection, a report shall be submitted to the Toledo Division of Environmental Services 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.

IV. Reporting Requirements (continued)

2. Notify the Toledo Division of Environmental Services in writing at least 30 days prior to filling or refilling of each storage vessel for which an internal inspection has been required to afford Toledo Division of Environmental Services the opportunity to have an observer present.

If the inspection is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the Toledo Division of Environmental Services shall be notified at least 7 days prior to the refilling of the storage vessel by telephone and 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 Toledo Division of Environmental Services at least 7 days prior to the refilling.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank #8 (T003)

Activity Description: Above ground internal floating roof storage tank.

A. State and Federally Enforceable Section

I. 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
internal floating roof storage tank with a capacity of 575,238 gallons	OAC rule 3745-21-09(L)	See A.I.2.a and A.I.2.b below.
	40 CFR Part 63, Subpart R	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee shall insure that the automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports. The rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or shall be at the manufacturer's recommended setting.

2.b The permittee shall equip all openings, except stub drains, with a cover, seal or lid, which shall be in a closed position at all times except when in actual use for tank gauging or sampling.

2.c The permittee of the storage vessel shall equip each storage vessel with a fixed roof in combination with an internal floating roof meeting the following specifications:

i. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

ii. The internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

(a) a foam-filled or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal) (a liquid-mounted seal means a foam-filled 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); or

(b) 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.); or

(c) 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).

2. Additional Terms and Conditions (continued)

iii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

a. the types of petroleum liquids stored in the tank; and
b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

2. 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 permittee shall repair the items before filling the storage vessel.

3. 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 permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Toledo Division of Environmental Services in the inspection report required in the reporting requirements, section A.IV.1. 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.

4. For vessels equipped with a double-seal system, the permittee shall visually inspect the vessel as specified in section A.III.3. of the monitoring and record keeping requirements.

5. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed.

If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

6. Records must be kept of each inspection performed. Each record shall identify the storage vessel on which the inspection was performed, the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

7. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

IV. Reporting Requirements

1. If any of the conditions described in the monitoring and record keeping requirements, in section A.III.2, are detected during the annual visual inspection, a report shall be submitted to the Toledo Division of Environmental Services 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.

IV. Reporting Requirements (continued)

2. Notify the Toledo Division of Environmental Services in writing at least 30 days prior to filling or refilling of each storage vessel for which an internal inspection has been required to afford Toledo Division of Environmental Services the opportunity to have an observer present.

If the inspection is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the Toledo Division of Environmental Services shall be notified at least 7 days prior to the refilling of the storage vessel by telephone and 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 Toledo Division of Environmental Services at least 7 days prior to the refilling.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank #14 (T009)

Activity Description: Above ground internal floating roof storage tank.

A. State and Federally Enforceable Section

I. 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
internal floating roof storage tank with a capacity of 365,595 gallons	OAC rule 3745-21-09(L)	See A.I.2.a and A.I.2.b below.
	40 CFR Part 63, Subpart R	See A.I.2.c below.

2. Additional Terms and Conditions

2.a The permittee shall insure that the automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports. The rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or shall be at the manufacturer's recommended setting.

2.b The permittee shall equip all openings, except stub drains, are with a cover, seal or lid, which shall be in a closed position at all times except when in actual use for tank gauging or sampling.

2.c The permittee of the storage vessel shall equip each storage vessel with a fixed roof in combination with an internal floating roof meeting the following specifications:

i. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

ii. The internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

(a) a foam-filled or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal) (a liquid-mounted seal means a foam-filled 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); or

(b) 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.); or

(c) 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).

2. Additional Terms and Conditions (continued)

iii. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

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

a. the types of petroleum liquids stored in the tank; and
b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

2. 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 permittee shall repair the items before filling the storage vessel.

3. 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 permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Toledo Division of Environmental Services in the inspection report required in the reporting requirements, section A.IV.1. 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.

4. For vessels equipped with a double-seal system, the permittee shall visually inspect the vessel as specified in section A.III.3. of the monitoring and record keeping requirements.

5. Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed.

If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the permittee shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

6. Records must be kept of each inspection performed. Each record shall identify the storage vessel on which the inspection was performed, the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

7. The permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

IV. Reporting Requirements

1. If any of the conditions described in the monitoring and record keeping requirements, section A.III.2, are detected during the annual visual inspection, a report shall be submitted to the Toledo Division of Environmental Services 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.

IV. Reporting Requirements (continued)

2. Notify the Toledo Division of Environmental Services in writing at least 30 days prior to filling or refilling of each storage vessel for which an internal inspection has been required to afford the Toledo Division of Environmental Services the opportunity to have an observer present.

If the inspection is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the Toledo Division of Environmental Services shall be notified at least 7 days prior to the refilling of the storage vessel by telephone and 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 Toledo Division of Environmental Services at least 7 days prior to the refilling.

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank #9 (T011)

Activity Description: Above ground internal floating roof storage tank.

A. State and Federally Enforceable Section

I. 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
internal floating roof storage tank with a capacity of 215,712 gallons	OAC rule 3745-31-05 (PTI 04-917)	0.46 tpy of xylene
		0.46 tpy of volatile organic compounds (VOC)
	40 CFR Part 63, Subpart F	See A.I.2.a below.
	40 CFR 63.119, Subpart G	See A.III.1 below.
	OAC rule 3745-21-09(L)	See A.II.1 and A.II.2 below.
	40 CFR Part 60, Subpart Kb	exempt
		See A.I.2.b below.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR 63.100(a) and 63.110(a), emissions units subject to 40 CFR Part 63, Subpart F, are also subject to 40 CFR Part 63, Subpart G and the appropriate sections of 40 CFR Part 63, Subpart A.

2.b As stated in 40 CFR 63.110(b)(1), the permittee is not required to comply with 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

1. The permittee shall ensure that the automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports. The rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or shall be at the manufacturer's recommended setting.

2. The permittee shall ensure all openings, except stub drains, are equipped with a cover, seal or lid, which shall be in a closed position at all times except when in actual use for tank gauging or sampling.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record of the following information for the life of this storage vessel:

a. the dimensions of the storage vessel; and

b. the capacity of the storage vessel.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain a record of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

3. Records shall be maintained of the maximum true vapor pressure (in pounds per square inch absolute), as stored, and the annual throughput of each stored material.

4. 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 material inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Toledo Division of Environmental Services. 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.

IV. Reporting Requirements

1. The permittee shall submit an annual emission report which specifies the total xylene and VOC emissions, in tons, from this emission unit for the previous calendar year. Each report shall be submitted by April 15th of each year.

V. Testing Requirements

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

1.a Emission Limitation:

0.46 tpy of xylene

Applicable Compliance Method:

Compliance shall be determined through emission calculations using the latest version of TANKS software, and the actual annual throughput and annual average vapor pressure as determined through the record keeping requirement specified in section A.III.3. Compliance may also be demonstrated through calculations performed in accordance with the most current edition of section 7.1 of AP 42, (currently 9/97).

1.b Emission Limitation:

0.46 tpy of VOC

Applicable Compliance Method:

Compliance shall be determined through emission calculations using the latest version of TANKS software and the actual annual throughput and annual average vapor pressure as determined through the record keeping requirement specified in section A.III.3.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tank #6 (T012)

Activity Description: Above ground internal floating roof storage tank.

A. State and Federally Enforceable Section

I. 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
internal floating roof storage tank with a capacity of 215,706 gallons	OAC rule 3745-31-05 (PTI 04-917)	0.51 tpy of toluene
		0.51 tpy of volatile organic compounds (VOC)
	40 CFR Part 63, Subpart F	See A.I.2.a below.
	40 CFR 63.119, Subpart G	See A.III.1 below.
	OAC rule 3745-21-09(L)	See A.II.1 and A.II.2 below.
	40 CFR Part 60, Subpart Kb	exempt
		See A.I.2.b below.

2. Additional Terms and Conditions

2.a In accordance with 40 CFR 63.100(a) and 63.110(a), emissions units subject to 40 CFR Part 63, Subpart F, are also subject to 40 CFR Part 63, Subpart G and the appropriate sections of 40 CFR Part 63, Subpart A.

2.b As stated in 40 CFR 63.110(b)(1), the permittee is not required to comply with 40 CFR Part 60, Subpart Kb.

II. Operational Restrictions

1. The permittee shall ensure that the automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports. The rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports or shall be at the manufacturer's recommended setting.

2. The permittee shall ensure all openings, except stub drains, are equipped with a cover, seal or lid, which shall be in a closed position at all times except when in actual use for tank gauging or sampling.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain a record of the following information for the life of this storage vessel:

a. the dimensions of the storage vessel; and

b. the capacity of the storage vessel.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain a record of the following information:

a. the types of petroleum liquids stored in the tank; and

b. the maximum true vapor pressure (in pounds per square inch absolute), as stored, of each liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

3. Records shall be maintained of the maximum true vapor pressure (in pounds per square inch absolute), as stored, and the annual throughput of each stored material.

4. 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 material inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Toledo Division of Environmental Services. 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.

IV. Reporting Requirements

1. The permittee shall submit an annual emission report which specifies the total toluene and VOC emissions, in tons, from this emission unit for the previous calendar year. Each report shall be submitted by April 15th of each year.

V. Testing Requirements

1. Compliance with the emission limitations specified in section B.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

0.51 tpy of toluene

Applicable Compliance Method:

Compliance shall be determined through emission calculations using the latest version of TANKS software and the actual annual throughput and annual average vapor pressure as determined through the record keeping requirement specified in section B.III.1. Compliance may also be demonstrated through calculations performed in accordance with the most current edition of section 7.1 of AP 42, (currently 9/97).

1.b Emission Limitation:

0.51 tpy of VOC

Applicable Compliance Method:

Compliance shall be determined through emission calculations using the latest version of TANKS software and the actual annual throughput and annual average vapor pressure as determined through the record keeping requirement specified in section B.III.1.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. 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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

****

THIS IS THE LAST PAGE OF THE PERMIT

****