



State of Ohio Environmental Protection Agency

STREET ADDRESS:

MAILING ADDRESS:

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Columbus, Ohio 43215

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P.O. Box 1049
Columbus, OH 43216-1049

4/23/2009

SHAUN KIZEWSKI
ARC TERMINALS HOLDINGS LLC
3000 RESEARCH FOREST DR
STE 250
THE WOODLANDS, TX 77386

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0448010123
Permit Number: P0088095
Permit Type: Renewal
County: Lucas

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR
No	CEMS
No	MACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate ("PTIO") which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully.

Ohio EPA maintains a document entitled "Frequently Asked Questions about the PTIO". The document can be downloaded from the DAPC Web page, www.epa.state.oh.us/dapc, from the "Permits" link. This document contains additional information related to your permit, such as what activities are covered under the PTIO, who has enforcement authority over the permit and Ohio EPA's authorization to inspect your facility and records. Please contact the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469 if you need assistance.

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission ("ERAC") under Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and describe the action complained of and the grounds for the appeal. The appeal must be filed with the ERAC within thirty (30) days after notice of the Director's action. A filing fee of \$70.00 must be submitted to the ERAC with the appeal, although the ERAC, has discretion to reduce the amount of the filing fee if you can demonstrate (by affidavit) that payment of the full amount of the fee would cause extreme hardship. If you file an appeal of this action, you must notify Ohio EPA of the filing of the appeal (by providing a copy to the Director) within three (3) days of filing your appeal with the ERAC. Ohio EPA requests that a copy of the appeal also be provided to the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the ERAC at the following address:

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

If you have any questions regarding this permit, please contact the Toledo Department of Environmental Services. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page www.epa.state.oh.us/dapc.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: TDES

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

FINAL

**Air Pollution Permit-to-Install and Operate
for
ARC TERMINALS HOLDINGS LLC**

Facility ID: 0448010123
Permit Number: P0088095
Permit Type: Renewal
Issued: 4/23/2009
Effective: 4/23/2009
Expiration: 4/23/2014



Air Pollution Permit-to-Install and Operate
for
ARC TERMINALS HOLDINGS LLC

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Final Permit-to-Install and Operate
Permit Number: P0088095
Facility ID: 0448010123
Effective Date: 4/23/2009

Authorization

Facility ID: 0448010123
Application Number(s): A0019220
Permit Number: P0088095
Permit Description: FESOP modification to clarify and update recordkeeping requirements
Permit Type: Renewal
Permit Fee: \$0.00
Issue Date: 4/23/2009
Effective Date: 4/23/2009
Expiration Date: 4/23/2014
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15
This document constitutes issuance to:

ARC TERMINALS HOLDINGS LLC
2844 N SUMMIT ST
TOLEDO, OH 43611

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Toledo Department of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419)936-3015

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director



Authorization (continued)

Permit Number: P0088095
 Permit Description: FESOP modification to clarify and update recordkeeping requirements

Permits for the following emissions unit(s) or groups of emissions units are in this document as indicated below:

Emissions Unit ID:	J001
Company Equipment ID:	Loading Rack
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	J002
Company Equipment ID:	Barge Loading
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	J003
Company Equipment ID:	Railcar Loading
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T001
Company Equipment ID:	Tank 40-1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T002
Company Equipment ID:	Tank 40-2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T003
Company Equipment ID:	Tank 30-3
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	T004
Company Equipment ID:	Tank 60-4
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable



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Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0088095

Facility ID: 0448010123

Effective Date: 4/23/2009

A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.



If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Toledo Department of Environmental Services in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the



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Division of Air Pollution Control

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change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



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B. Facility-Wide Terms and Conditions



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

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Facility ID: 0448010123

Effective Date: 4/23/2009

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.



State of Ohio Environmental Protection Agency
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Final Permit-to-Install and Operate

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C. Emissions Unit Terms and Conditions



1. J001, Loading Rack

Operations, Property and/or Equipment Description:

tank truck loading rack at a bulk gasoline terminal comprised of 2 bays with 5 loading arms and equipped with a flare vapor control system

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., b)(2)a. thru f., d)(1) thru (7), e)(1) and e)(4) and f)(1)a. thru d.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D)	the combined stack emissions of volatile organic compounds (VOC) from emissions units J001, J002 and J003 shall not exceed 57.7 tons per rolling, 12-month period see b)(2)a. thru b)(2)f.
b.	OAC rule 3745-21-09(Q)	see b)(2)g.
c.	40 CFR Part 60, Subpart XX	exempt, see b)(2)h.
d.	40 CFR Part 63 subpart A	see b)(2)i.
e.	40 CFR Part 63, Subpart R	exempt, not a major source of HAPS per 40 CFR 63.420 see b)(2)j.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	40 CFR Part 63, Subpart BBBB	see b)(2)k.

(2) Additional Terms and Conditions

- a. The permittee shall restrict the loading of organic liquids in this emissions unit to those with a true vapor pressure equal to or less than that of RVP 15 gasoline.
- b. For organic liquids with a true vapor pressure greater than that of distillate fuel oil #2: the stack emissions of VOC shall not exceed 0.33 pound per 1,000 gallons (40 mg/l) loaded into the delivery vessel.
- c. For organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2: the emissions of VOC shall not exceed 0.038 pound of VOC per 1,000 gallons loaded into the delivery vessel.
- d. The combined annual throughputs of organic liquids in emissions units J001, J002 and J003 shall not exceed:
 - i. 322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2; and
 - ii. 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2.

Compliance with the annual limitations shall be based upon the rolling, 12-month summation of the monthly recorded throughputs.

- e. The combined emissions of hazardous air pollutants (HAPs) from all emissions units at this facility, as identified in Section 112(b) of Title III of the Clean Air Act, shall be less than 10 tons per year for any individual HAP, and 25 tons per year for any combination of HAPs, as rolling, 12-month summations. These annual emission limitations were established to reflect the potential to emit for this facility. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- f. This stationary source category is not subject to a standard promulgated under section 111 or 112 of the Act before August 7, 1980, therefore fugitive emissions of criteria pollutants will not be considered in any determination of major source status for Title V purposes.
- g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).



- h. No construction or modification (as defined in by 40 CFR 60.14) which commenced after December 17, 1980, has affected those loading racks which deliver liquid product into gasoline tank trucks (as defined by 40 CFR 60.501).
 - i. Table 3 of 40 CFR Part 63 subpart BBBB shows which parts of the General Provisions apply to this emissions unit.
 - j. The permittee shall operate the facility such that none of the facility parameters used to calculate results under f)(1)d. is exceeded in any rolling 30-day period, and maintain records and provide reports in accordance with the provisions of 40 CFR 63.428(i).
 - k. The permittee shall comply with all applicable requirements of 40 CFR Part 63 subpart BBBB by no later than January 10, 2011. The complete 40 CFR Part 63 requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services. Operational Restrictions.
- c) Operational Restrictions
- (1) The loading rack shall be equipped with a vapor collection system whereby during the transfer of gasoline to any delivery vessel:
 - a. all vapors displaced from the delivery vessel during loading are vented only to the vapor collection system; and
 - b. the pressure in the vapor collection system is maintained between minus 6 and plus 18 inches of water gauge pressure.
 - (2) The loading rack shall be equipped with a vapor control system whereby:
 - a. all vapors collected by the vapor collection system are vented to the flare type vapor control system; and
 - b. 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.
 - (3) The permittee shall properly install, operate, and maintain a device to continuously monitor the flare when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - (4) The loading rack shall be provided with a means 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.
 - (5) All gasoline loading lines and vapor lines shall be equipped with fittings which are vapor tight.
 - (6) The permittee shall not permit gasoline to be spilled, discarded into sewers, stored in open containers, or handled in any other manner that would result in evaporation.



- (7) The permittee shall repair any leak from the vapor collection system or vapor control system within 15 days of detection, where the system is employed to meet the requirements of paragraph (Q)(1) of OAC rule 3745-21-09 and when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.
- d) Monitoring and/or Recordkeeping Requirements
- (1) For each day during which the permittee loads organic liquids with a true vapor pressure greater than that of RVP 15 gasoline in this emissions unit, the permittee shall maintain a record of the type and quantity of organic liquid loaded.
 - (2) The permittee shall properly install, operate, and maintain equipment to monitor the pressure in the vapor collection system, while the emissions unit is in operation, to demonstrate compliance with the pressure range established in OAC rule 3745-21-09(Q)(1)(a)(ii). The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).
 - (3) The permittee shall monitor the flare to ensure that it is operated and maintained in conformance with its design and the requirements contained in this permit.
 - (4) The permittee shall record all periods of time during which the flare was inoperable.
 - (5) The permittee shall maintain daily records of the following information:
 - a. the total throughput for emissions units J001 and J003 (volumes loaded) for gasoline, and
 - b. the rolling, 30-day average of the total throughputs (volumes loaded) for emissions units J001 and J003.
 - (6) The permittee shall maintain monthly records of the following information:
 - a. the total throughput (volumes loaded) for;
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per month; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per month.
 - b. the rolling, 12-month summations of the total throughputs (volumes loaded) for :
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per year; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per year.



- c. the rolling, 12-month summations of the combined total throughputs (volumes loaded) for emissions units J001, J002 and J003 for:
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per year; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per year.
- (7) The permittee shall maintain a daily log of the downtime for the capture (collection) system, control device and monitoring equipment, when the associated emissions unit was in operation.
- (8) The permittee shall repair any leak from the vapor collection system and/or vapor control system, that is equal to or greater than 100% of the LEL as propane (as determined under OAC 3745-21-10(K)), within 15 days of detection. The permittee shall maintain a record of each such leak that is not repaired within the 15 days.
- e) Reporting Requirements
 - (1) The permittee shall submit quarterly deviation (excursion) reports which identify the following:
 - a. any exceedances of the rolling, 12-month throughput limitations; and
 - b. all periods of downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

The reports shall also document the cause of each exceedance and an explanation of any corrective actions which have been taken or will be taken to prevent a similar exceedance in the future. If no deviations occurred during the 3-month period, the permittee shall submit a quarterly report which states that no deviations occurred during that 3-month period. These reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous 3-month calendar period.
 - (2) The permittee shall report annually to the Administrator, and to the Toledo Division of Environmental Services, that the facility parameters established under f)(1)d. have not been exceeded. At any time the permittee may submit a report to request modification of any facility parameter to the Administrator and the Toledo Division of Environmental Services for approval. Each such request shall document any expected HAP emission change resulting from the change in parameter.
 - (3) If the facility is in compliance with the requirements of 40 CFR Part 63 subpart BBBB at the time the Initial Notification (40 CFR 63.9(b)) is due, the Notification of Compliance Status under 40 CFR 63.11093(b) may be submitted in lieu of the Initial Notification.
 - (4) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall



cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the emission limitations in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

For organic liquids with a true vapor pressure greater than that of distillate fuel oil: the stack emissions of VOC shall not exceed 0.33 pound per 1,000 gallons (40 mg/l) loaded into the delivery vessel.

Applicable Compliance Method:

Compliance shall be demonstrated by the results of the most recent stack test performed on this emissions unit (0.02 pound VOC per 1,000 gallons of gasoline based on testing performed May 22, 2000).

If required, the permittee shall demonstrate compliance through emissions testing performed in accordance with the procedures and method(s) detailed OAC rule 3745-21-10(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

b. Emission Limitation:

For organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil: the emissions of VOC shall not exceed 0.038 pound of VOC per 1,000 gallons loaded into the delivery vessel.

Applicable Compliance Method:

This emissions limitation was developed based on a one-time worst case emissions calculation utilizing the USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 5.2, Equation (1) dated 1/95, as follows:

$$L = 12.46 \text{ SPM/T}$$

where:

L = loading loss, pounds of OC per 1000 gallons of liquid loaded

S = a saturation factor (1)

P = true vapor pressure, psia (distillate = 0.0065 - AP-42 Table 7.1-2)

M = molecular weight, lb/lb mole (distillate = 130)

T = temperature of bulk liquid, degrees R (520)



If required, the permittee shall demonstrate compliance through emissions testing performed in accordance with U.S. EPA approved test methods used with prior written approval from the Ohio EPA.

c. Emission Limitation:

the combined stack emissions of VOC from emissions units J001, J002 and J003 shall not exceed 57.7 tons per rolling, 12-month period

Applicable Compliance Method:

This emissions limitation was developed by a one-time worst case calculation based on the enforceable maximum throughput restrictions (322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2) and the enforceable emissions limitations for loading (0.33 pound VOC per 1,000 gallons for organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 0.038 pound of VOC per 1,000 gallons for organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2).

$$[(0.33 \text{ lb}/1000 \text{ gal})(322,368,000 \text{ gal}/\text{yr}) + (0.038 \text{ lb}/1000 \text{ gal})(234,000,000 \text{ gal})] / 2000 \text{ lb}/\text{ton}$$

d. Emission Limitation:

The emissions of hazardous air pollutants (HAPs) from all emissions units at this facility, as identified in Section 112(b) of Title III of the Clean Air Act, shall be less than 10 tons per year of any individual HAP, and 25 tons per year for any combination of HAPs, as a rolling 12-month summations.

Applicable Compliance Method:

Compliance with this emissions limitation was demonstrated by a one-time calculation following the procedure for the determination of MACT applicability given in 40 CFR Part 63, Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations, Section 63.420 - Applicability), where compliance is determined by a calculated value of ET of less than 1.0, as follows:

$$ET = 0.161[0.59(TF)(1CE) + 0.17(TE) + 0.08(TES) + 0.038(TI) + 8.510^{-6}(C) + KQ] + 0.04(OE)$$

$$ET = 0.161 [0.59(1)(1-0) + 0.17(0) + 0.08(0) + 0.038(5) + 8.510^{-6}(1000) + KQ] + 0.04(.077)$$

$$ET = 0.161 [0.59 + 0 + 0 + 0.190 + 0.009 + (4.510^{-9})(EF + L)Q] + 0.003$$

$$(EF + L) = (0.33 \text{ lb}/1000 \text{ gal})(1000 \text{ gal}/3785.4 \text{ l})(454,000 \text{ mg}/\text{lb}) + (13)$$

$$(EF + L) = (40 + 13) = 53 \text{ mg of total organic compounds per liter of gasoline loaded}$$



$$Q = 322,368,000 \text{ gal/yr} (3.7854 \text{ l/gal})(1 \text{ yr}/365 \text{ d}) = 3.34 \times 10^6 \text{ l/d}$$

$$ET = 0.161 [0.789 + (4.510^{-9})[53](3.34 \times 10^6) + 0.003$$

$$ET = 0.161 [0.789 + 0.797] + 0.003$$

$$ET = 0.258$$

where:

ET = emissions screening factor for bulk gasoline terminals, this number will be less than 1.0 if the facility is a minor source for HAPs

CF = 0.161 for bulk gasoline terminals and pipeline breakout stations that do not handle any reformulated or oxygenated gasoline containing 7.6 percent by volume or greater methyl tert-butyl ether (MTBE),

CE = control efficiency limitation on potential to emit for the vapor processing system used to control emissions from fixed-roof gasoline storage vessels = 0;

TF = total number of fixed-roof gasoline storage vessels without an internal floating roof = 1 (Surge Tank S-13);

TE = total number of external floating roof gasoline storage vessels with only primary seals = 0;

TES = total number of external floating roof gasoline storage vessels with primary and secondary seals = 0;

TI = total number of fixed-roof gasoline storage vessels with an internal floating roof; There are five permitted IFR gasoline storage tanks = 5 (T001, T003, T004, T006 and T007).

C = number of valves, pumps, connectors, loading arm valves, and open-ended lines in gasoline service = 1000 (897 was existing number in 1996 submittal);

Q = gasoline throughput limitation on potential to emit (liters/day) = 3.34×10^6 l/d;

K = $(4.510^{-9})(EF + L)$ for bulk gasoline terminals with controlled loading racks (loading racks that have vapor collection and processing systems installed on the emission stream);

EF = emission rate limitation on potential to emit for the gasoline cargo tank loading rack vapor processor outlet emissions = 40 mg of total organic compounds per liter of gasoline loaded;

OE = other HAP emissions screening factor for bulk gasoline terminals (tons per year) = 0.077 tpy from miscellaneous sources including the loadout of distillate per a 10/22/96 Clark Oil PTE analysis. OE equals the total HAP from other emission sources not specified in parameters in the



equations for ET. If the value of $0.04(OE)$ is greater than 5 percent of either ET, then this calculation shall not be used to determine major HAP status (4% of $OE = 0.003$, 5% of $ET = 0.013$);

$L = 13$ mg/l for gasoline cargo meeting the requirement to satisfy the test criteria for a vapor-tight gasoline tank truck in 40 CFR 60.501.

Should more accurate emission factors be developed, the permittee shall use them, provided the new emission factors are mutually agreeable in a written agreement to the Ohio EPA, the Toledo Division of Environmental Services and the permittee.

- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 12 months of issuance of this permit and within 12 months prior to permit expiration, and shall be performed between April 30 and May 31.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate of VOC for gasoline loading.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 2A, 21 and 25B of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-21-10(E).
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. 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 refusing to accept the results of the emission test(s).
 - f. 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 the performance of the control equipment.
 - g. 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 Toledo Division of Environmental Services within 30 days following completion of the test(s).



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Final Permit-to-Install and Operate

Permit Number: P0088095

Facility ID: 0448010123

Effective Date: 4/23/2009

g) Miscellaneous Requirements

(1) None.



2. J002, Barge Loading

Operations, Property and/or Equipment Description:

barge loading at a bulk gasoline terminal comprised of 1 dock area with 2 loading arms and no controls

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., b)(2)a., d)(2), e)(1) and f)(1)

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D)	<p>the combined stack emissions of volatile organic compounds (VOC) from emissions units J001, J002 and J003 shall not exceed 57.7 tons per rolling, 12-month period</p> <p>the emissions of volatile organic compounds (VOC) from this emissions unit shall not exceed 0.038 pound per 1,000 gallons of organic liquid loaded into the delivery vessel</p> <p>the permittee shall restrict the loading of organic liquids in this emissions unit to those with a true vapor pressure equal to or less than that of distillate fuel oil #2 see b)(2)a.</p>
b.	OAC rule 3745-21-09(Q)	exempt, see b)(2)b.



(2) Additional Terms and Conditions

- a. The combined annual throughputs of organic liquids in emissions units J001, J002 and J003 shall not exceed:
 - i. 322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2; and
 - ii. 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2.

Compliance with the annual limitations shall be based upon the rolling, 12-month summation of the monthly recorded throughputs.

- b. The permittee shall restrict the loading of organic liquids in this emissions unit to those with a true vapor pressure equal to or less than that of distillate fuel oil #2.

c) Operational Restrictions

- (1) The annual throughput of organic liquids in this emissions unit shall not exceed 234,000,000 gallons per year. Compliance with the annual limitation shall be based upon the rolling, 12-month summation of the monthly recorded throughputs.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee loads gasoline (including transmix), ethanol, fuel additives or other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 in this emissions unit, the permittee shall maintain a record of the type and quantity of organic liquid loaded.

- (2) The permittee shall maintain monthly records of the following information:

- a. the total throughputs (volumes loaded), in gallons per month; and
- b. the rolling, 12-month summation of the total throughputs (volumes loaded), in gallons per year.
- c. the rolling, 12-month summations of the combined total throughputs (volumes loaded) for emissions units J001, J002 and J003 for:
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per year; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per year.
 - iii.



e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports which identify any exceedances of the rolling, 12-month throughput limitation. The reports shall also document the cause of each exceedance and an explanation of any corrective actions which have been taken or will be taken to prevent a similar exceedance in the future. If no deviations occurred during the 3-month period, the permittee shall submit a quarterly report which states that no deviations occurred during that 3-month period. These reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous 3-month calendar period.
- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

The emissions of VOC shall not exceed 0.038 pound of VOC per 1,000 gallons loaded into the delivery vessel.

Applicable Compliance Method:

This emissions limitation was developed based on a one-time worst case emissions calculation utilizing the USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 5.2, Equation (1) dated 1/95, as follows:

$$L = 12.46 \text{ SPM/T}$$

where:

L = loading loss, pounds of OC per 1000 gallons of liquid loaded

S = a saturation factor (1)

P = true vapor pressure, psia (distillate = 0.0065 - AP-42 Table 7.1-2)

M = molecular weight, lb/lb mole (distillate = 130)

T = temperature of bulk liquid, degrees R (520)

Compliance may be demonstrated through alternative U.S. EPA approved test methods used with prior written approval from the Ohio EPA.



b. Emission Limitation:

the combined stack emissions of volatile organic compounds (VOC) from emissions units J001, J002 and J003 shall not exceed 57.7 tons per rolling, 12-month period

Applicable Compliance Method:

This emissions limitation was developed by a one-time worst case calculation based on the enforceable maximum throughput restrictions (322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2) and the enforceable emissions limitations for loading (0.33 pound VOC per 1,000 gallons for organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 0.038 pound of VOC per 1,000 gallons for organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2).

$$\frac{[(0.33 \text{ lb}/1000 \text{ gal})(322,368,000 \text{ gal}/\text{yr})+(0.038 \text{ lb}/1000 \text{ gal})(234,000,000 \text{ gal})]}{2000 \text{ lb}/\text{ton}}$$

g) Miscellaneous Requirements

(1) None.



3. J003, Railcar Loading

Operations, Property and/or Equipment Description:

railcar loading at a bulk gasoline terminal comprised of 1 loading station with 4 loading arms and equipped with a flare vapor control system

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. b)(1)a., b)(2)a. thru f., d)(1) thru (7), e)(1) and e)(4) and f)(1)a. thru d.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (as established by PTI 04-1082 as modified on 5/12/99)	see b)(2)a. thru b)(2)e.
b.	OAC rule 3745-31-05(D)	the combined stack emissions of volatile organic compounds (VOC) from emissions units J001, J002 and J003 shall not exceed 57.7 tons per rolling, 12-month period see b)(2)f.
c.	OAC rule 3745-21-09(Q)	see b)(2)g.
d.	40 CFR Part 60, Subpart XX	exempt, see b)(2)h.
e.	40 CFR Part 63, Subpart A	see b)(2)i.
f.	40 CFR Part 63, Subpart R	exempt, not a major source of HAPS per



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		Section 63.420 see b)(2)j.
g.	40 CFR Part 63, Subpart BBBB	see b)(2)k.

(2) Additional Terms and Conditions

- a. The permittee shall restrict the loading of organic liquids in this emissions unit to those with a true vapor pressure equal to or less than that of RVP 15 gasoline.
- b. For organic liquids with a true vapor pressure greater than that of distillate fuel oil #2: the stack emissions of VOC shall not exceed 0.33 pound per 1,000 gallons (40 mg/l) loaded into the delivery vessel.
- c. For organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2: the emissions of VOC shall not exceed 0.038 pound of VOC per 1,000 gallons loaded into the delivery vessel.
- d. The emissions of hazardous air pollutants (HAPs) from all emissions units at this facility, as identified in Section 112(b) of Title III of the Clean Air Act, shall be less than 10 tons per year for any individual HAP, and 25 tons per year for any combination of HAPs, as rolling, 12-month summations. These annual emission limitations were established to reflect the potential to emit for this facility. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these limitations.
- e. The annual throughput of organic liquids in this emissions unit shall not exceed:
 - i. 322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2; and
 - ii. 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2.

Compliance with the annual limitations shall be based upon the rolling, 12-month summation of the monthly recorded throughputs.

- f. The combined annual throughputs of organic liquids in emissions units J001, J002 and J003 shall not exceed:
 - i. 322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2; and



- ii. 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2.
 - g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).
 - h. Railcar loading at a bulk gasoline terminal is not an affected source.
 - i. Table 3 to 40 CFR Part 63 subpart BBBB shows which parts of the General Provisions apply to this emissions unit.
 - j. The permittee shall operate the facility such that none of the facility parameters used to calculate results under f)(1)d. is exceeded in any rolling 30-day period, and maintain records and provide reports in accordance with the provisions of 40 CFR 63.428(i).
 - k. The permittee shall comply with all applicable requirements of 40 CFR Part 63 subpart BBBB by no later than January 10, 2011. The complete 40 CFR Part 63 requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services. Operational Restrictions.
- c) Operational Restrictions
- (1) The loading rack shall be equipped with a vapor collection system whereby during the transfer of gasoline to any delivery vessel:
 - a. all vapors displaced from the delivery vessel during loading are vented only to the vapor collection system; and
 - b. the pressure in the vapor collection system is maintained between minus 6 and plus 18 inches of water gauge pressure.
 - (2) The loading rack shall be equipped with a vapor control system whereby:
 - a. all vapors collected by the vapor collection system are vented to the vapor control system; and
 - b. 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.
 - (3) The permittee shall properly install, operate, and maintain a device to continuously monitor the flare when the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
 - (4) The loading rack shall be provided with a means 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.



- (5) All gasoline loading lines and vapor lines shall be equipped with fittings which are vapor tight.
 - (6) The permittee shall not permit gasoline to be spilled, discarded into sewers, stored in open containers, or handled in any other manner that would result in evaporation.
 - (7) The permittee shall repair any leak from the vapor collection system or vapor control system within 15 days of detection, where the system is employed to meet the requirements of paragraph (Q)(1) of OAC rule 3745-21-09 and when such leak is equal to or greater than 100 percent of the lower explosive limit as propane, as determined under paragraph (K) of OAC rule 3745-21-10.
- d) Monitoring and/or Recordkeeping Requirements
- (1) For each day during which the permittee loads organic liquids with a true vapor pressure greater than that of RVP 15 gasoline in this emissions unit, the permittee shall maintain a record of the type and quantity of organic liquid loaded.
 - (2) The permittee shall properly install, operate, and maintain equipment to monitor the pressure in the vapor collection system, while the emissions unit is in operation, to demonstrate compliance with the pressure range established in OAC rule 3745-21-09(Q)(1)(a)(ii). The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).
 - (3) The permittee shall monitor the flare to ensure that it is operated and maintained in conformance with its design and the requirements contained in this permit.
 - (4) The permittee shall record all periods of time during which the flare was inoperable.
 - (5) The permittee shall maintain daily records of the following information:
 - a. the total throughput for emissions units J001 and J003 (volumes loaded) for gasoline, and
 - b. the rolling, 30-day average of the total throughputs (volumes loaded) for emissions units J001 and J003.
 - (6) The permittee shall maintain monthly records of the following information:
 - a. the total throughputs (volumes loaded) for this emissions unit for:
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per month; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per month.
 - b. the rolling, 12-month summations of the total throughputs (volumes loaded) for this emissions unit for:



- i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per year; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per year.
 - c. the rolling, 12-month summations of the combined total throughputs (volumes loaded) for emissions units J001, J002 and J003 for:
 - i. gasoline (including transmix), ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2, in gallons per year; and
 - ii. distillates, biodiesel and organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2, in gallons per year.
 - (7) The permittee shall maintain a daily log of the downtime for the capture (collection) system, control device and monitoring equipment, when the associated emissions unit was in operation.
 - (8) The permittee shall repair any leak from the vapor collection system and/or vapor control system, that is equal to or greater than 100% of the LEL as propane (as determined under OAC 3745-21-10(K)), within 15 days of detection. The permittee shall maintain a record of each such leak that is not repaired within the 15 days.
- e) Reporting Requirements
 - (1) The permittee shall submit quarterly deviation (excursion) reports which identify the following:
 - a. any exceedances of the rolling, 12-month throughput limitations; and
 - b. all periods of downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

The reports shall also document the cause of each exceedance and an explanation of any corrective actions which have been taken or will be taken to prevent a similar exceedance in the future. If no deviations occurred during the 3-month period, the permittee shall submit a quarterly report which states that no deviations occurred during that 3-month period. These reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous 3-month calendar period.
 - (2) The permittee shall report annually to the Administrator, and to the Toledo Division of Environmental Services, that the facility parameters established under f)(1)d. have not been exceeded. At any time the permittee may submit a report to request modification of any facility parameter to the Administrator and the Toledo Division of Environmental Services for approval. Each such request shall document any expected HAP emission change resulting from the change in parameter.



- (3) If the facility is in compliance with the requirements of 40 CFR Part 63 subpart BBBBBB at the time the Initial Notification (40 CFR 63.9(b)) is due, the Notification of Compliance Status under 40 CFR 63.11093(b) may be submitted in lieu of the Initial Notification.
- (4) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the emission limitations in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

For organic liquids with a true vapor pressure greater than that of distillate fuel oil: the stack emissions of VOC shall not exceed 0.33 pound per 1,000 gallons (40 mg/l) loaded into the delivery vessel.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through emissions testing performed in accordance with the procedures and method(s) detailed OAC rule 3745-21-10(E). Alternative U.S. EPA approved test methods may be used with prior written approval from the Ohio EPA.

b. Emission Limitation:

For organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil: the emissions of VOC shall not exceed 0.038 pound of VOC per 1,000 gallons loaded into the delivery vessel.

Applicable Compliance Method:

This emissions limitation was developed based on a one-time worst case emissions calculation utilizing the USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 5.2, Equation (1) dated 1/95, as follows:

$$L = 12.46 \text{ SPM/T}$$

where:

L = loading loss, pounds of OC per 1000 gallons of liquid loaded

S = a saturation factor (1)

P = true vapor pressure, psia (distillate = 0.0065 - AP-42 Table 7.1-2)

M = molecular weight, lb/lb mole (distillate = 130)



T = temperature of bulk liquid, degrees R (520)

If required, the permittee shall demonstrate compliance through emissions testing performed in accordance with U.S. EPA approved test methods used with prior written approval from the Ohio EPA.

c. Emission Limitation:

the stack emissions of VOC from this emissions unit shall not exceed 57.7 tons per rolling, 12-month period

Applicable Compliance Method:

This emissions limitation was developed by a one-time worst case calculation based on the enforceable maximum throughput restrictions (322,368,000 gallons per year of gasoline, ethanol, fuel additives and other organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 234,000,000 gallons per year of distillates biodiesel and other organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2) and the enforceable emissions limitations for loading (0.33 pound VOC per 1,000 gallons for organic liquids with a true vapor pressure greater than that of distillate fuel oil #2 and 0.038 pound of VOC per 1,000 gallons for organic liquids with a true vapor pressure equal to or less than that of distillate fuel oil #2).

$$[(0.33 \text{ lb}/1000 \text{ gal})(322,368,000 \text{ gal}/\text{yr})+(0.038 \text{ lb}/1000 \text{ gal})(234,000,000 \text{ gal})] / 2000 \text{ lb}/\text{ton}$$

d. Emission Limitation:

The emissions of hazardous air pollutants (HAPs) from all emissions units at this facility, as identified in Section 112(b) of Title III of the Clean Air Act, shall be less than 10 tons per year of any individual HAP, and 25 tons per year for any combination of HAPs, as a rolling 12-month summations.

Applicable Compliance Method:

Compliance with this emissions limitation was demonstrated by a one-time calculation following the procedure for MACT applicability given in 40 CFR Part 63, Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations, Section 63.420 - Applicability), where compliance is determined by a calculated value of ET of less than 1.0, as follows:

$$ET = 0.161[0.59(TF)(1CE) + 0.17(TE) + 0.08(TES) + 0.038(TI) + 8.510^{-6}(C) + KQ] + 0.04(OE)$$

$$ET = 0.161 [0.59(1)(1-CE) + 0.17(0) + 0.08(0) + 0.038(5) + 8.510^{-6}(1000) + KQ] + 0.04(.077)$$

$$ET = 0.161 [0.59 + 0 + 0 + 0.152 + 0.009 + (4.510^{-9})(EF + L)Q] + 0.003$$

$$(EF + L) = (0.33 \text{ lb}/1000 \text{ gal})(1000 \text{ gal}/3785.4 \text{ l})(454,000 \text{ mg}/\text{lb}) + (13)$$



$(EF + L) = (40 + 13) = 53$ mg of total organic compounds per liter of gasoline loaded

$Q = 322,368,000$ gal/yr $(3.7854$ l/gal) $(1$ yr/365 d) = 3.34×10^6 l/d

$ET = 0.161 [0.789 + (4.510^{-9})[53](3.34 \times 10^6) + 0.003$

$ET = 0.161 [0.789 + 0.797] + 0.003$

$ET = 0.258$

where:

ET = emissions screening factor for bulk gasoline terminals, this number will be less than 1.0 if the facility is a minor source for HAPs

CF = 0.161 for bulk gasoline terminals and pipeline breakout stations that do not handle any reformulated or oxygenated gasoline containing 7.6 percent by volume or greater methyl tert-butyl ether (MTBE),

CE = control efficiency limitation on potential to emit for the vapor processing system used to control emissions from fixed-roof gasoline storage vessels = 0;

TF = total number of fixed-roof gasoline storage vessels without an internal floating roof = 1 (Surge Tank S-13);

TE = total number of external floating roof gasoline storage vessels with only primary seals = 0;

TES = total number of external floating roof gasoline storage vessels with primary and secondary seals = 0;

TI = total number of fixed-roof gasoline storage vessels with an internal floating roof; There are five permitted IFR gasoline storage tanks = 5 (T001, T003, T004, T006 and T007).

C = number of valves, pumps, connectors, loading arm valves, and open-ended lines in gasoline service = 1000 (897 was existing number in 1996 submittal);

Q = gasoline throughput limitation on potential to emit (liters/day) = 3.34×10^6 l/d;

$K = (4.510^{-9})(EF + L)$ for bulk gasoline terminals with controlled loading racks (loading racks that have vapor collection and processing systems installed on the emission stream);

EF = emission rate limitation on potential to emit for the gasoline cargo tank loading rack vapor processor outlet emissions = 40 mg of total organic compounds per liter of gasoline loaded;



OE = other HAP emissions screening factor for bulk gasoline terminals (tons per year) = 0.077 tpy from miscellaneous sources including the loadout of distillate per a 10/22/96 Clark Oil PTE analysis. OE equals the total HAP from other emission sources not specified in parameters in the equations for ET. If the value of $0.04(OE)$ is greater than 5 percent of either ET, then this calculation shall not be used to determine major HAP status (4% of OE = 0.003, 5% of ET = 0.013);

L = 13 mg/l for gasoline cargo meeting the requirement to satisfy the test criteria for a vapor-tight gasoline tank truck in 40 CFR 60.501.

Should more accurate emission factors be developed, the permittee shall use them, provided the new emission factors are mutually agreeable in a written agreement to the Ohio EPA, the Toledo Division of Environmental Services and the permittee.

g) Miscellaneous Requirements

- (1) None.



4. T001, Tank 40-1

Operations, Property and/or Equipment Description:

1,546,000 gallon internal floating roof storage tank, tank 40-1

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(L)	no fixed roof tank shall store a petroleum liquid with a true vapor pressure greater than 1.52 psi unless it is equipped with an internal floating roof
b.	40 CFR Part 60, Subpart Kb	exempt, see b)(2)a.
c.	40 CFR Part 63, Subpart A	see b)(2)b.
d.	40 CFR Part 63, Subpart BBBB	see b)(2)c.

(2) Additional Terms and Conditions

a. No construction, reconstruction or modification (as defined in by 40 CFR 60.14) which commenced after July 23, 1984, has affected this emissions unit.

b. Table 3 to 40 CFR Part 63 subpart BBBB shows which parts of the General Provisions apply to this emissions unit.



- c. The permittee shall comply with all applicable requirements of 40 CFR Part 63 subpart BBBBBB by the 1st degassing and cleaning activity occurring after January 10, 2011, but must comply no later than January 10, 2018. The complete 40 CFR Part 63 requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services. Operational Restrictions.

c) Operational Restrictions

- (1) The permittee shall install the following control equipment and shall maintain tank vents, seals, and or covers as follows:
 - a. the fixed roof storage tank shall be equipped with an internal floating roof;
 - b. the automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports;
 - c. the rim vents, if present, shall be set to open or at the manufacturer's recommended setting when the roof is being floated off the roof leg supports; and
 - d. all openings, except stub drains, shall be equipped with a cover, seal, or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain records of the following information for the fixed roof tank:
 - 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 petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

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

e) Reporting Requirements

- (1) If the permittee places, stores, or holds, in the fixed roof tank, any petroleum liquid with a true vapor pressure that is greater than 1.52 pounds per square inch absolute and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Toledo Division of Environmental Services) within 30 days of becoming aware of the occurrence. The date that such petroleum liquid was first stored in the tank, the date removed (if removed), the total gallons throughput of each petroleum liquid exceeding this vapor pressure, and the proposed method of compliance shall be included in the report.



- (2) If the facility is in compliance with the requirements of 40 CFR Part 63 subpart BBBBBB at the time the Initial Notification (40 CFR 63.9(b)) is due, the Notification of Compliance Status under 40 CFR 63.11093(b) may be submitted in lieu of the Initial Notification.
 - (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) None.
- g) Miscellaneous Requirements
- (1) None.



5. T003, Tank 30-3

Operations, Property and/or Equipment Description:

Tank 30-3

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(L)	no fixed roof tank shall store a petroleum liquid with a true vapor pressure greater than 1.52 psi unless it is equipped with an internal floating roof
b.	40 CFR Part 60, Subpart Kb	exempt, see b)(2)a.
c.	40 CFR Part 63, Subpart A	see b)(2)b.
d.	40 CFR Part 63, Subpart BBBB	see b)(2)c.

(2) Additional Terms and Conditions

a. No construction, reconstruction or modification (as defined in by 40 CFR 60.14) which commenced after July 23, 1984, has affected this emissions unit.

b. Table 3 to 40 CFR Part 63 subpart BBBB shows which parts of the General Provisions apply to this emissions unit.



- c. The permittee shall comply with all applicable requirements of 40 CFR Part 63 subpart BBBBBB by the 1st degassing and cleaning activity occurring after January 10, 2011, but must comply no later than January 10, 2018. The complete 40 CFR Part 63 requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services. Operational Restrictions.

c) Operational Restrictions

- (1) The permittee shall install the following control equipment and shall maintain tank vents, seals, and or covers as follows:
 - a. the fixed roof storage tank shall be equipped with an internal floating roof;
 - b. the automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports;
 - c. the rim vents, if present, shall be set to open or at the manufacturer's recommended setting when the roof is being floated off the roof leg supports; and
 - d. all openings, except stub drains, shall be equipped with a cover, seal, or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain records of the following information for the fixed roof tank:
 - 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 petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

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

e) Reporting Requirements

- (1) If the permittee places, stores, or holds, in the fixed roof tank, any petroleum liquid with a true vapor pressure that is greater than 1.52 pounds per square inch absolute and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Toledo Division of Environmental Services) within 30 days of becoming aware of the occurrence. The date that such petroleum liquid was first stored in the tank, the date removed (if removed), the total gallons throughput of each petroleum liquid exceeding this vapor pressure, and the proposed method of compliance shall be included in the report.



- (2) If the facility is in compliance with the requirements of 40 CFR Part 63 subpart BBBB at the time the Initial Notification (40 CFR 63.9(b)) is due, the Notification of Compliance Status under 40 CFR 63.11093(b) may be submitted in lieu of the Initial Notification.
 - (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) None.
- g) Miscellaneous Requirements
- (1) None.



6. T004, Tank 60-4

Operations, Property and/or Equipment Description:

Tank 60-4

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

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-21-09(L)	no fixed roof tank shall store a petroleum liquid with a true vapor pressure greater than 1.52 psi unless it is equipped with an internal floating roof
b.	40 CFR Part 60, Subpart Kb	exempt, see b)(2)a.
c.	40 CFR Part 63, Subpart A	see b)(2)b.
d.	40 CFR Part 63, Subpart BBBB	see b)(2)c.

(2) Additional Terms and Conditions

a. No construction, reconstruction or modification (as defined in by 40 CFR 60.14) which commenced after July 23, 1984, has affected this emissions unit.

b. Table 3 to 40 CFR Part 63 subpart BBBB shows which parts of the General Provisions apply to this emissions unit.



- c. The permittee shall comply with all applicable requirements of 40 CFR Part 63 subpart BBBBBB by the 1st degassing and cleaning activity occurring after January 10, 2011, but must comply no later than January 10, 2018. The complete 40 CFR Part 63 requirements, including the General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Toledo Division of Environmental Services. Operational Restrictions.

c) Operational Restrictions

- (1) The permittee shall install the following control equipment and shall maintain tank vents, seals, and or covers as follows:
 - a. the fixed roof storage tank shall be equipped with an internal floating roof;
 - b. the automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports;
 - c. the rim vents, if present, shall be set to open or at the manufacturer's recommended setting when the roof is being floated off the roof leg supports; and
 - d. all openings, except stub drains, shall be equipped with a cover, seal, or lid which is to be in a closed position at all times except when in actual use for tank gauging or sampling.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain records of the following information for the fixed roof tank:
 - 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 petroleum liquid that has a maximum true vapor pressure greater than 1.0 pound per square inch absolute.

These records shall be maintained for at least 5 years and shall be made available to the director or his representative upon verbal or written request.

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

e) Reporting Requirements

- (1) If the permittee places, stores, or holds, in the fixed roof tank, any petroleum liquid with a true vapor pressure that is greater than 1.52 pounds per square inch absolute and such tank does not comply with the requirements of paragraph (L)(1) of OAC rule 3745-21-09, the permittee shall notify the Director (the Toledo Division of Environmental Services) within 30 days of becoming aware of the occurrence. The date that such petroleum liquid was first stored in the tank, the date removed (if removed), the total gallons throughput of each petroleum liquid exceeding this vapor pressure, and the proposed method of compliance shall be included in the report.



- (2) If the facility is in compliance with the requirements of 40 CFR Part 63 subpart BBBB at the time the Initial Notification (40 CFR 63.9(b)) is due, the Notification of Compliance Status under 40 CFR 63.11093(b) may be submitted in lieu of the Initial Notification.
 - (3) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- f) Testing Requirements
- (1) None.
- g) Miscellaneous Requirements
- (1) None.