

Facility ID: 1409070869 Issuance type: Final State Permit To Operate

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1409070869 Emissions Unit ID: J002 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
J002-Loading rack	OAC rule 3745-31-05(A)(3) (PTI 14-02401)	Volatile organic compounds (VOC) emissions shall not exceed 3.22 tons per year.
	OAC rule 3745-21-09(P)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(P). See terms A.2.a, A.2.b and A.2.c. See sections B.1 and B.2.

2. Additional Terms and Conditions

- (a) For any transfer of gasoline from a delivery vessel to a stationary storage tank located at the bulk gasoline plant, the vapors displaced from the stationary storage tank shall be processed by a vapor balance system which is equipped with a vapor tight vapor line from the stationary storage tank to the delivery vessel and a means to ensure that the vapor line is connected before gasoline can be transferred and which is designed and operated to route at least 90 percent, by weight, of the VOC in the displaced vapors to the delivery vessel.
For any transfer of gasoline from a loading rack located at the bulk gasoline plant to a delivery vessel, the vapors displaced from delivery vessel shall be processed by a vapor balance system which is equipped with a vapor tight vapor line from the delivery vessel to the stationary storage tank being unloaded and a means to ensure that the vapor line is connected before gasoline can be transferred and which is designed and operated to route at least 90 percent, by weight, of the VOC in the displaced vapors to the stationary storage tank.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with emissions limitations and the use of vapor balance systems, filling systems, and vapor tight lines required by OAC 3745-21-09(P).

B. Operational Restrictions

1. The permittee shall maintain the bulk gasoline plant's tanks, delivery vessels, and transfer lines using the following operational practices:
 - a. Each stationary storage tank that stores gasoline shall be loaded by means of a submerged fill pipe.
 - b. Any loading rack that transfers gasoline to a delivery vessel shall be equipped for top submerged filling or bottom filling for the transfer of gasoline.
 - c. All gasoline loading lines, unloading lines, and vapor lines shall be equipped with fittings which are vapor tight.
 - d. The vapor balance or vapor control system shall be kept in good working order and shall be used at all times during the transfer of gasoline.
 - e. The delivery vessel hatches shall be closed at all times during the loading of the delivery vessel.
 - f. There shall be no leaks in the delivery vessel pressure/vacuum relief valves and hatch covers.
 - g. There shall be no leaks in the vapor and liquid lines during the transfer of gasoline.
 - h. The pressure relief valves on the stationary storage tanks and delivery vessels shall be set to release at no less than 0.7 pound per square inch gauge or the highest possible pressure (in accordance with State or local fire codes, or the "National Fire Prevention Association" guidelines).

- i. The permittee shall not allow gasoline to be spilled, discarded in sewers, stored in open containers, or handled in any other manner that would result in evaporation.
 - 2. The permittee shall repair any leak from the vapor balance system or vapor control system within 15 days of detection, where the system is employed to meet the requirements of paragraph (P)(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.
- C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain records of the results of any leak checks, including, at a minimum, the following information:
 - a. the date of inspection;
 - b. the leak detection method;
 - c. the findings of the inspection, which shall indicate the location, nature, and severity of each leak (or may indicate no leak found);
 - d. the corrective action(s) taken to repair each leak and the date of final repair;
 - e. the reasons for any repair interval exceeding 15 calendar days, from the time of detection to the date of final repair; and
 - f. the inspector's name and signature.

These records shall be retained for a period of 5 years and shall be made available to the director (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request.

D. Reporting Requirements

- 1. Any leaks in the vapor balance system or vapor control system 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 of the Administrative Code, that are not repaired within 15 days after identification, shall be reported to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the repair is completed. This report shall include the date the leak was detected and the date the leak was repaired.

E. Testing Requirements

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

Emissions Limitations:
VOC emissions shall not exceed 3.22 tons per year.

Applicable Compliance Method:
The annual VOC emission rate shall be derived by using AP 42, Section 5.2 (1/95) and making the following calculations:

- a. calculate the loading loss equation for each liquid loaded using Equation 1 as referenced in AP 42, Section 5.2.2.1.1

Emissions from loading petroleum liquid can be estimated using the following equation:

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

where:

LL = the loading loss in pounds per 1000 gallon of liquid loaded .
S = a saturation factor from AP 42 Table 5.2-1= 1.
P = the true vapor pressure of liquid loaded in psia = 7.4.
M = the molecular weight of vapors, pound per pound mole = 66.
T = temperature of bulk liquid loaded, R (F + 460) = 540.

$$LL = 11.3 \text{ lbs/1000 gallons of petroleum liquid}$$

5,665,895 gallons of petroleum liquid/year x 11.3 lbs of VOC/1000 gallons of petroleum liquid x (1-.90) x ton/2000 lbs = 3.2 TPY VOC from loading petroleum liquid.

This calculation took the annual pounds VOC emissions per each liquid loaded and multiplied the loading loss emissions factor for that liquid by the number of thousand gallons loaded and then multiplied by one minus the control device efficiency.

F. Miscellaneous Requirements

- 1. None