

Facility ID: 1409000264 Issuance type: Final State Permit To Operate

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

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

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

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

Facility ID: 1409000264 Emissions Unit ID: P014 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>
P014-LPG rack flare	OAC rule 3745-31-05 (A)(3) PTI 14-05197	Volatile Organic Compound (VOC) emissions shall not exceed 14.5 pounds per hour. Carbon Monoxide (CO) emissions shall not exceed 38.3 pounds per hour. Nitrogen Oxides (NOx) emissions shall not exceed 7.0 pounds per hour. Particulate Emissions (PE) shall not exceed 1.2 pounds per hour. Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 1.2 pounds per hour. The requirements of this rule also include compliance with OAC rule 3745-17-07(A)(1) and OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	Volatile Organic Compound (VOC) emissions shall not exceed 2.9 TPY based on a rolling 12-month summation. Carbon Monoxide (CO) emissions shall not exceed 7.7 TPY based on a rolling 12-month summation. Nitrogen Oxides (NOx) emissions shall not exceed 1.4 TPY based on a rolling 12-month summation. Particulate Emissions (PE) shall not exceed 0.24 TPY based on a rolling 12-month summation. Particulate matter emissions 10 microns and less in diameter (PM10) shall not exceed 0.24 TPY based on a rolling 12-month summation.
	OAC rule 3745-17-07(A)(1) OAC rule 3745-21-07(J)(2)	See term A.2.c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a smokeless flare and compliance with the annual operating hours limitation.
The hourly emission limitations outlined in section A.1 are based upon the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits. Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

B. Operational Restrictions

1. The maximum annual operating hours for emissions unit P014 shall not exceed 400 hours per year, based on a rolling, 12-month summation of the operating hours. The permittee has existing records to demonstrate compliance with this limit upon issuance of this permit.
2. No person shall emit organic materials into the atmosphere from a waste gas flare system unless such materials are burned by smokeless flares, or an equally effective control equipment as approved by the director.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions unit P014:
 - a. The operating hours for each month.
 - b. The rolling, 12-month summation of the operating hours.
 - c. The rolling, 12-month summation of VOC, CO, NOx, PE and PM10 emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify any exceedances of the rolling, 12-month operating hours limitation and exceedances of any rolling, 12-month emission limitation outlined in this permit, as well as the corrective actions that were taken to achieve compliance. If no exceedances occurred during the reporting period, the permittee shall state so in the report.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Emission Limits:

Carbon Monoxide (CO) emissions shall not exceed 38.3 pounds per hour and 7.7 TPY.

Applicable Compliance Method:

Compliance with the CO emission limitations shall be demonstrated by the following calculations using the emission factor in AP-42 Fifth Edition, Industrial Flares, Table 13.5-1, 1995 and, for the annual emissions, the actual annual operating hours:

$103.35 \text{ mmBtu/hr (heat input)} \times 0.37 \text{ lb of CO/mmBtu (CO emission factor)} = 38.3 \text{ lb/hr of CO; and}$

$38.3 \text{ lbs of CO/hr} \times 400 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 7.7 \text{ TPY of CO.}$

2. Emission Limits:

Volatile Organic Compound (VOC) emissions shall not exceed 14.5 pounds per hour and 2.9 TPY.

Applicable Compliance Method:

Compliance with the VOC emissions limits shall be demonstrated by the following calculations using the emission factor in AP-42 Fifth Edition, Industrial Flares, Table 13.5-1, 1995 and, for the annual emissions, the actual annual operating hours:

$103.35 \text{ mmBtu/hr (heat input)} \times 0.14 \text{ lb of VOC/mmBtu (VOC emission factor)} = 14.5 \text{ lb/hr of VOC; and}$

$14.5 \text{ lbs of VOC/hr} \times 400 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 2.9 \text{ TPY of VOC.}$

3. Emission Limits:

Nitrogen Oxide (NOx) emissions shall not exceed 7.0 pounds per hour and 1.4 TPY.

Applicable Compliance Method:

Compliance with the NOx emissions limits shall be demonstrated by the following calculations using the emission factor in AP-42 Fifth Edition, Industrial Flares, Table 13.5-1, 1995 and, for the annual emissions, the actual annual operating hours:

$103.35 \text{ mmBtu/hr (heat input)} \times 0.068 \text{ lb of NOx/mmBtu (NOx emission factor)} = 7.0 \text{ lb/hr of NOx; and}$

$7.0 \text{ lbs of NOx/hr} \times 400 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 1.4 \text{ TPY of NOx.}$

4. Emission Limits:

Particulate Emissions (PE) and Particulate Matter emissions 10 microns and less in diameter (PM10) shall not exceed 1.2 pounds per hour and 0.24 TPY.

Compliance with the PE/PM10 emissions limits shall be demonstrated by the following calculations and for the annual emissions, the actual annual operating hours:

$[0.07 \text{ grains PE/PM}_{10}/\text{cubic feet}] \times 2000 \text{ cubic feet/minute} \times 1.0 \text{ lb}/7000 \text{ grains} \times 60 \text{ min/hr} = 1.2 \text{ lb/hr PE/PM}_{10}$; and

$1.2 \text{ lbs of PM/PM}_{10}/\text{hr} \times 400 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.24 \text{ TPY of PMPM}_{10}$.

5. Compliance with the annual operating hours limitation in term B.1 shall be demonstrated by the recordkeeping requirement in term C.1.

F. **Miscellaneous Requirements**

1. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.