

Facility ID: 1483060000 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: 1483060000 Emissions Unit ID: B008 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>
189 MMBtu/hr No. 2 fuel oil fired turbine	PTI 14-2068	See A.2.a.
	40 CFR Part 60, Subpart GG	See A.2.b.
	OAC 3745-17-07(A)(1)	See A.2.c.
	OAC 3745-17-11(B)(4)	0.04 LB PM/MMBtu of actual heat input (this PM emission limit is less stringent than the BAT PM emission limit in A.2.a.)
	OAC 3745-18-06(F)	0.5 LB SO ₂ /MMBtu of actual heat input (this SO ₂ emission limit is less stringent than the BAT SO ₂ emission limit in A.2.a.)

2. Additional Terms and Conditions

- (a) This emissions unit shall not exceed the following emission limitations:
 - 5.0 LBS PM/HR, 1.05 TPY PM
 - 108.0 LBS NO_x/HR, 22.68 TPY NO_x
 - 26.0 LBS SO₂/HR, 5.46 TPY SO₂
 - 6.8 LBS CO/HR, 1.43 TPY CO
 - 1.4 LBS VOC/HR, 0.30 TPY VOC
 - The NO_x concentration in the exhaust gas shall not exceed 42 parts per million, by volume, (ppmv) of NO_x at 15% oxygen, on a dry basis.
 - The SO₂ concentration in the exhaust gas shall not exceed 0.015% SO₂, by volume, at 15% oxygen, on a dry basis.
 - The sulfur content of the fuel shall not exceed 0.8% by weight.
 - (These emissions limits are less stringent than the BAT NO_x and SO₂ emissions limits in A.2.a.)
 - Visible particulate emissions from the stack associated with B008 shall not exceed 20% opacity as a six-minute average, except as specified by rule.

B. Operational Restrictions

1. The maximum annual operating hours for B008 shall not exceed 420 hours per year based upon a rolling, 12-month summation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for B008:
 - a. the total operating hours; and
 - b. the rolling, 12-month summation of the total operating hours.
2. For each shipment of fuel oil received in the bulk storage tank which supplies oil to the turbine, the permittee shall maintain records of the quantity of oil received and the permittee's or oil supplier's analyses for sulfur content, in % by weight, and heat content, in Btu/gallon.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in B008. The permittee shall perform or require the supplier to perform the

analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any monthly record showing an exceedance of the rolling, 12-month operating hours limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate local air agency) within 45 days after the exceedance occurs.
2. The permittee shall submit, on an annual basis, copies of the permittee or oil supplier's analyses for each shipment of oil which is received for burning in B008. The permittee's or oil supplier's analyses shall document the sulfur content (percent by weight) and heat content (Btu/gallon) for each shipment of oil. The permittee shall submit these reports to the appropriate local air agency by February 15 of each year.

E. Testing Requirements

1. PM, SO₂, NO_x, CO and VOC Emissions Limitations:
 - a. Compliance with the hourly emission limits shall be demonstrated by multiplying the AP-42 emission factors for PM, SO₂, NO_x, CO and VOC (lb/MMBtu of actual heat input for Large Uncontrolled Gas Turbines firing No 2 fuel oil) by the maximum capacity of the turbine (189 MMBtu/hr).
 - b. Compliance with the annual emission limits shall be demonstrated by multiplying the hourly emission rate for PM, SO₂, NO_x, CO and VOC (lb/hr) by the annual hours of operation and dividing by 2000 lbs/ton.
2. Sulfur Content Limitation:

The sulfur content of the No 2 fuel oil burned in this emissions unit shall be determined by the ASTM methods for sulfur content of No 2 fuel oil as referenced in 40 CFR 60.335(d).

Compliance with the sulfur content limitation shall be demonstrated by the recordkeeping requirements in C.2.
3. Visible Emissions Limitation:

Compliance with OAC 3745-17-07(A) shall be demonstrated by the methods outlined in OAC 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. The following terms and conditions contained in this permit to operate are federally enforceable: A.1., B.1., C.1., C.2., and D.1.