

Facility ID: 1318285266 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.

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Facility ID: 1318285266 Emissions Unit ID: B009 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>
A 16.8 MMBtu/hr natural gas boiler with No. 2 fuel oil backup	OAC 3745-17-07 (A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC 3745-17-10	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-18-06	1.6 lbs of sulfur dioxide emissions per million Btu actual heat input

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The permittee shall only burn natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of oil burned in this emissions unit shall meet the following specifications on as-received basis :
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 pounds of sulfur dioxide/MMBtu actual heat input; and
 - b. greater than 135,000 BTU/gallon of oil.

C. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate in lb/MMBtu.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil received for burning in the emissions unit. 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 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.
3. For each day during which the permittee burns a fuel other than natural gas and/or number two fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/hr) for each shipment of oil. The following information shall also be included with copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons);

- b. the weighted* average sulfur dioxide emission rate (pounds/MMBtu) for the oil received during the calendar month; and
- c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

* In proportion to the quantity of oil received in each shipment during the calendar month. These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

- 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following methods(s):
Emission Limitation -
0.020 lb of particulate /MMBTU actual heat input

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (59,835 cu.ft/hr) by the AP-42 emission factor for natural gas (6.2 lbs/MMcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBTU/hr). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (gal/hr) by the AP-42 emission factor for No. 2 fuel oil (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBtu/hr).

Emission Limitation -
20% opacity, as a 6-minute average

Applicable Compliance Method(s) -
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation -
1.6 lbs SO2/MMBtu actual heat input

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.

F. Miscellaneous Requirements

- 1. None.

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Facility ID: 1318285266 Emissions Unit ID: B010 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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- 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>
A 16.8 MMBtu/hr natural gas boiler with No. 2 fuel oil backup	OAC 3745-17-07 (A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC 3745-17-10	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-18-06	1.6 lbs of sulfur dioxide emissions per million Btu actual heat input

- 2. **Additional Terms and Conditions**

- (a) None
- B. Operational Restrictions**
1. The permittee shall only burn natural gas and/or No. 2 fuel oil in this emissions unit.
 2. The quality of oil burned in this emissions unit shall meet the following specifications on as-received basis :
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 pounds of sulfur dioxide/MMBtu actual heat input; and
 - b. greater than 135,000 BTU/gallon of oil.
- C. Monitoring and/or Record Keeping Requirements**
1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO₂ emission rate in lb/MMBtu.
 2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil received for burning in the emissions unit. 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 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.
 3. For each day during which the permittee burns a fuel other than natural gas and/or number two fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- D. Reporting Requirements**
1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/hr) for each shipment of oil. The following information shall also be included with copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons);
 - b. the weighted* average sulfur dioxide emission rate (pounds/MMBtu) for the oil received during the calendar month; and
 - c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

* In proportion to the quantity of oil received in each shipment during the calendar month. These quarterly reports shall be submitted by February 15, May 15, August 15, and november 15 of each year and shall cover the oil shipments received during the previous calendar quarters.
 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- E. Testing Requirements**
1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following methods(s):

Emission Limitation -
0.020 lb of particulate /MMBTU actual heat input

Applicable Compliance Method -
For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (59,835 cu.ft/hr) by the AP-42 emission factor for natural gas (6.2 lbs/MMcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBTU/hr). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (gal/hr) by the AP-42 emission factor for No. 2 fuel oil (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBtu/hr).

Emission Limitation -
20% opacity, as a 6-minute average

Applicable Compliance Method(s) -
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation -
1.6 lbs SO₂/MMBtu actual heat input

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.
- F. Miscellaneous Requirements**
1. None.

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Facility ID: 1318285266 Emissions Unit ID: B011 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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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>
A 16.8 MMBtu/hr natural gas boiler with No. 2 fuel oil backup	OAC 3745-17-07 (A)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.
	OAC 3745-17-10	0.020 lb of particulate emissions per million Btu actual heat input
	OAC 3745-18-06	1.6 lbs of sulfur dioxide emissions per million Btu actual heat input

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The permittee shall only burn natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of oil burned in this emissions unit shall meet the following specifications on as-received basis :
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 pounds of sulfur dioxide/MMBtu actual heat input; and
 - b. greater than 135,000 BTU/gallon of oil.

C. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO2 emission rate in lb/MMBtu.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil received for burning in the emissions unit. 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 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.
3. For each day during which the permittee burns a fuel other than natural gas and/or number two fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/hr) for each shipment of oil. The following information shall also be included with copies of the permittee's or oil supplier's analyses:
 - a. the total quantity of oil received in each shipment (gallons);
 - b. the weighted* average sulfur dioxide emission rate (pounds/MMBtu) for the oil received during the calendar month; and
 - c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

* In proportion to the quantity of oil received in each shipment during the calendar month. These quarterly reports shall be submitted by February 15, May 15, August 15, and November 15 of each year and shall cover the oil shipments received during the previous calendar quarters.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in

accordance with the following method(s):

Emission Limitation -
0.020 lb of particulate /MMBTU actual heat input

Applicable Compliance Method -

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (59,835 cu.ft/hr) by the AP-42 emission factor for natural gas (6.2 lbs/MMcu.ft) and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBTU/hr). For the use of No. 2 fuel oil, compliance shall be based upon multiplying the maximum fuel oil capacity of the emissions unit (gal/hr) by the AP-42 emission factor for No. 2 fuel oil (2 lb/1000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (16.8 MMBtu/hr).

Emission Limitation -
20% opacity, as a 6-minute average

Applicable Compliance Method(s) -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03 (B)(1) using the methods and procedures specified in USEPA Reference Method 9.

Emission Limitation -
1.6 lbs SO₂/MMBtu actual heat input

Compliance shall be based upon the analytical results of each shipment of oil, using the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual emission rate.

F. Miscellaneous Requirements

1. None.