

Facility ID: 0125041853 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.

[Go to Part II for Emissions Unit B002](#)
[Go to Part II for Emissions Unit B003](#)

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Facility ID: 0125041853 Emissions Unit ID: B002 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>
Natural gas and number 2 fuel oil-fired boiler having a maximum rated capacity of 20.9 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in this rule (1.6 lbs/mmBtu actual heat input) is less stringent than the limitation established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-31-05 (PTI 01-1834)	Sulfur dioxide emissions shall not exceed 11.0 lbs/hr and 0.5 lb/mmBtu.
		See B.1 through B.3 below.

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

B. Operational Restrictions

1. The quality of oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content which is equal to or less than 0.5 weight percent sulfur.
2. The maximum yearly operating hours for this emissions unit while burning number 2 fuel oil shall not exceed 2,300 hours.
3. The maximum yearly number 2 fuel oil consumption for this emissions unit shall not exceed 350,000 gallons.
4. The permittee shall burn only natural gas and/or number 2 fuel oil in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. 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 this 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 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 Ohio EPA, Central District Office.
2. 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 sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall maintain monthly records of the following:

- a. The total operating hours for this emissions unit while burning number 2 fuel oil.
 - b. The total quantity of number 2 fuel oil burned in this emissions unit, in gallons.
 4. For each day during which the permittee burns a fuel other than natural gas and/or number 2 fuel oil, 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 notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the following:
 - a. The allowable lb/mmBtu sulfur dioxide emission limitation.
 - b. The allowable lbs/hr sulfur dioxide emission limitation.
 - c. The number 2 fuel oil sulfur content limitation.

The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation(s) occurs.
 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
 3. The permittee shall also submit annual reports that identify the total operating hours for this emissions unit while burning number 2 fuel oil and the total quantity of number 2 fuel oil burned in this emissions unit. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Compliance with the emission limitation(s) in Section A.1 of the terms and conditions shall be determined in accordance with the following methods.

Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.

Applicable Compliance Method:
When burning natural gas, compliance shall be determined by multiplying the maximum hourly consumption capacity of the emissions unit (20,922 cu.ft/hr) by the AP-42 (Fifth Edition) emission factor for natural gas combustion (6.2 lbs/mmcu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (20.9 mmBtu/hr). When burning number 2 fuel oil, compliance shall be determined by multiplying the maximum hourly fuel oil consumption capacity of the emissions unit (35.7 gal/hr) by the AP-42 (Fifth Edition) emission factor for number 2 fuel oil combustion (2 lbs/1,000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (20.9 mmBtu/hr). If required, the permittee shall demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input.

Applicable Compliance Method:
Compliance shall be determined by the record keeping requirements in Section C.2 and using the applicable equation in OAC rule 3745-18-04(F).

Emission limitation:
Sulfur dioxide emissions shall not exceed 11.0 lbs/hr.

Applicable Compliance Method:
Multiply the maximum hourly fuel oil consumption rate of the emissions unit (35.7 gal/hr) by the AP-42 (Fifth Edition) sulfur dioxide emission factor of 142(S) lbs/1,000 gal, where S is the percent sulfur content of the fuel (maximum of 0.5 weight percent sulfur).
- F. Miscellaneous Requirements**
1. None

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Facility ID: 0125041853 Emissions Unit ID: B003 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>
Natural gas and number 2 fuel oil-fired boiler having a maximum rated capacity of 20.9 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in this rule (1.6 lbs/mmBtu actual heat input) is less stringent than the limitation established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-31-05 (PTI 01-1834)	Sulfur dioxide emissions shall not exceed 11.0 lbs/hr and 0.5 lb/mmBtu.
		See B.1 through B.3 below.

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. The quality of oil burned in this emissions unit shall meet, on an as-received basis, a sulfur content which is equal to or less than 0.5 weight percent sulfur.
2. The maximum yearly operating hours for this emissions unit while burning number 2 fuel oil shall not exceed 2,300 hours.
3. The maximum yearly number 2 fuel oil consumption for this emissions unit shall not exceed 350,000 gallons.
4. The permittee shall burn only natural gas and/or number 2 fuel oil in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. 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 this 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 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 Ohio EPA, Central District Office.
2. 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 sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.
3. The permittee shall maintain monthly records of the following:
 - a. The total operating hours for this emissions unit while burning number 2 fuel oil.
 - b. The total quantity of number 2 fuel oil burned in this emissions unit, in gallons.
4. For each day during which the permittee burns a fuel other than natural gas and/or number 2 fuel oil, 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 notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the following:
 - a. The allowable lb/mmBtu sulfur dioxide emission limitation.
 - b. The allowable lbs/hr sulfur dioxide emission limitation.
 - c. The number 2 fuel oil sulfur content limitation.

The notification shall include a copy of such record(s) and shall be sent to the Director (the Ohio EPA, Central District Office) within 30 days after the deviation(s) occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

3. The permittee shall also submit annual reports that identify the total operating hours for this emissions unit while burning number 2 fuel oil and the total quantity of number 2 fuel oil burned in this emissions unit. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of the terms and conditions shall be determined in accordance with the following methods.
Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
Emission Limitation:
Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.

Applicable Compliance Method:
When burning natural gas, compliance shall be determined by multiplying the maximum hourly consumption capacity of the emissions unit (20,922 cu.ft/hr) by the AP-42 (Fifth Edition) emission factor for natural gas combustion (6.2 lbs/mmcu.ft), and dividing by the maximum hourly heat input capacity of the emissions unit (20.9 mmBtu/hr). When burning number 2 fuel oil, compliance shall be determined by multiplying the maximum hourly fuel oil consumption capacity of the emissions unit (35.7 gal/hr) by the AP-42 (Fifth Edition) emission factor for number 2 fuel oil combustion (2 lbs/1,000 gal), and dividing by the maximum hourly heat input capacity of the emissions unit (20.9 mmBtu/hr). If required, the permittee shall demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9).
Emission Limitation:
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input.

Applicable Compliance Method:
Compliance shall be determined by the record keeping requirements in Section C.2 and using the applicable equation in OAC rule 3745-18-04(F).
Emission limitation:
Sulfur dioxide emissions shall not exceed 11.0 lbs/hr.

Applicable Compliance Method:
Multiply the maximum hourly fuel oil consumption rate of the emissions unit (35.7 gal/hr) by the AP-42 (Fifth Edition) sulfur dioxide emission factor of 142(S) lbs/1,000 gal, where S is the percent sulfur content of the fuel (maximum of 0.5 weight percent sulfur).

F. Miscellaneous Requirements

1. None