

Facility ID: 0278080011 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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[Go to Part II for Emissions Unit B005](#)

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

Facility ID: 0278080011 Emissions Unit ID: B004 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>
Cleaver Brooks Boiler No.4 28.5 mmBtu/hr - natural gas-fired boiler with No. 2 fuel oil backup	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb per mmBtu of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-18-06(D)	Sulfur dioxide (SO2) emissions shall not exceed 1.6 pounds per mmBtu of actual heat input when burning No. 2 fuel oil.

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

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil received for burning in this emissions unit shall meet a combination of sulfur content and heat content sufficient to comply with the allowable SO2 emission limitation.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
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 heat content and sulfur content, and the calculated SO2 emission rate (in lbs/mmBtu). [The SO2 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 perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

D. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any fuel burned in this emissions unit other than natural gas or No. 2 fuel oil. Each report shall be submitted within 45 days after the deviation occurs.
2. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any record that shows a deviation of the allowable SO2 emission limitation based upon the calculated SO2 emission rate for each shipment of oil. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

PE shall not exceed 0.020 lb per mmBtu of actual heat input.

Applicable Compliance Method:

When natural gas is used, the permittee may multiply the particulate emission factor of 1.9* pounds of particulate emissions per million cubic feet of natural gas combusted by the inverse of the heat content of the natural gas, in Btu per cubic foot, as supplied by the gas supplier. (emission factor * from AP-42, Table 1.4 -2 (7/98))

When No. 2 fuel oil is used, the permittee may multiply the particulate emissions factor of 2** pounds of particulate emissions per 1000 gallons of oil combusted by the inverse of the heat content of the fuel oil, in Btu per gallon, as supplied by the oil supplier. (emission factor ** from AP-42, Table 1.3 -1 (9/98))

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated through visible particulate emission 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:

SO2 emissions shall not exceed 1.6 pounds per mmBtu of actual heat input when burning No. 2 fuel oil.

Applicable Compliance Method:

When firing No. 2 fuel oil, compliance with the allowable SO2 emission limitation may be demonstrated by documenting that the sulfur content and heat content of each shipment of oil meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

F. Miscellaneous Requirements

1. None

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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>
Cleaver Brooks Boiler No.5 28.5 mmBtu/hr - natural gas-fired boiler with No. 2 fuel oil backup	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb per mmBtu of actual heat input.

OAC rule 3745-17-07(A)

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

OAC rule 3745-18-06(D)

Sulfur dioxide (SO₂) emissions shall not exceed 1.6 pounds per mmBtu of actual heat input when burning No. 2 fuel oil.

2. Additional Terms and Conditions

(a) None

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The quality of the oil received for burning in this emissions unit shall meet a combination of sulfur content and heat content sufficient to comply with the allowable SO₂ emission limitation.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
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 heat content and sulfur content, and the calculated SO₂ emission rate (in lbs/mmBtu). [The SO₂ 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 perform or require the supplier to perform the analyses for heat content and sulfur content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

D. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any fuel burned in this emissions unit other than natural gas or No. 2 fuel oil. Each report shall be submitted within 45 days after the deviation occurs.
2. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any record that shows a deviation of the allowable SO₂ emission limitation based upon the calculated SO₂ emission rate for each shipment of oil. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

PE shall not exceed 0.020 lb per mmBtu of actual heat input.

Applicable Compliance Method:

When natural gas is used, the permittee may multiply the particulate emission factor of 1.9* pounds of particulate emissions per million cubic feet of natural gas combusted by the inverse of the heat content of the natural gas, in Btu per cubic foot, as supplied by the gas supplier. (emission factor * from AP-42, Table 1.4 -2 (7/98))

When No. 2 fuel oil is used, the permittee may multiply the particulate emissions factor of 2** pounds of particulate emissions per 1000 gallons of oil combusted by the inverse of the heat content of the fuel oil, in Btu per gallon, as supplied by the oil supplier. (emission factor ** from AP-42, Table 1.3 -1 (9/98))

If required, compliance with this emission limitation shall be determined through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated through visible particulate emission 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:

SO₂ emissions shall not exceed 1.6 pounds per mmBtu of actual heat input when burning No. 2 fuel oil.

Applicable Compliance Method:

When firing No. 2 fuel oil, compliance with the allowable SO₂ emission limitation may be demonstrated by documenting that the sulfur content and heat content of each shipment of oil meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission

tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

F. **Miscellaneous Requirements**

1. None