

Facility ID: 1677010107 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 B005](#)
[Go to Part II for Emissions Unit B006](#)
[Go to Part II for Emissions Unit B007](#)

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Facility ID: 1677010107 Emissions Unit ID: B005 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/fuel oil-fired boiler, 50 million Btu/hr maximum input capacity	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-10	See A.2.b below.
	OAC rule 3745-18-83	See A.2.c below.
	40 CFR 52.1881	See A.2.d below.

2. Additional Terms and Conditions

- (a) Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
 Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
 The sulfur dioxide emission limitation based upon OAC rule 3745-18-83 is replaced by the sulfur dioxide emission limitation based upon 40 CFR 52.1881.
 Sulfur dioxide emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
 Note: the permittee states in the application that natural gas is the primary fuel of this emissions unit and no fuel oil has been burned since the third quarter of 1990.
2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
 - b. a heat content greater than 135,000 Btu per gallon of oil.
 Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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 appropriate Ohio EPA District Office or local air agency.
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 and the permittee's or oil supplier's analyses for sulfur content and heat content.

3. The permittee shall record on a monthly basis the natural gas and/or fuel oil usage in this emissions unit.
 4. For each day during which the permittee burns a fuel other than natural gas and/or number two 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 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.
 2. 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/gallon) for each shipment of oil. The following information shall also be included with the 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.
- E. Testing Requirements**
1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:
0.020 pound of particulate matter per million Btu of actual heat input
Applicable Compliance Method:
To demonstrate compliance with OAC rule 3745-17-10 when burning distillate fuel oil the permittee shall multiply the particulate emission factor of 0.002 pound of particulate emissions per gallon burned by the maximum hourly distillate fuel oil consumption rate of 370 gallons per hour, and divide by 50 mmBtu/hr.
To demonstrate compliance with OAC rule 3745-17-10 when burning natural gas, the permittee shall multiply the particulate emission factor of 13.5 pounds of particulate emissions per million cubic feet burned by the maximum hourly natural gas consumption rate (0.05 million cubic feet per hour), and divide by 50 mmBtu/hr.
Emission Limitation:
1.83 pounds of sulfur dioxide per million Btu of actual heat input
Applicable Compliance Method:
When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.
Emission Limitation:
20% opacity as a 6-minute average
Applicable Compliance Method:
OAC rule 3745-17-03(B)(1)
- F. Miscellaneous Requirements**
1. None

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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/fuel oil-fired boiler, 50 million Btu/hr maximum input capacity	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-10	See A.2.b below.
	OAC rule 3745-18-83	See A.2.c below.
	40 CFR 52.1881	See A.2.d below.

- 2. **Additional Terms and Conditions**

- (a) Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
 Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input.
 The sulfur dioxide emission limitation based upon OAC rule 3745-18-83 is replaced by the sulfur dioxide emission limitation based upon 40 CFR 52.1881.
 Sulfur dioxide emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

B. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

 Note: the permittee states in the application that natural gas is the primary fuel of this emissions unit and no fuel oil has been burned since the third quarter of 1990.
- 2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
 - b. a heat content greater than 135,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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 appropriate Ohio EPA District Office or local air agency.
- 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 and the permittee's or oil supplier's analyses for sulfur content and heat content.
- 3. The permittee shall record on a monthly basis the natural gas and/or fuel oil usage in this emissions unit.
- 4. For each day during which the permittee burns a fuel other than natural gas and/or number two 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 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.
- 2. 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/gallon) for each shipment of oil. The following information shall also be included with the 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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

0.020 pound of particulate matter per million Btu of actual heat input

Applicable Compliance Method:

To demonstrate compliance with OAC rule 3745-17-10 when burning distillate fuel oil the permittee shall multiply the particulate emission factor of 0.002 pound of particulate emissions per gallon burned by the maximum hourly distillate fuel oil consumption rate of 370 gallons per hour, and divide by 50 mmBtu/hr.

To demonstrate compliance with OAC rule 3745-17-10 when burning natural gas, the permittee shall multiply the particulate emission factor of 13.5 pounds of particulate emissions per million cubic feet burned by the maximum hourly natural gas consumption rate (0.05 million cubic feet per hour), and divide by 50 mmBtu/hr.

Emission Limitation:

1.83 pounds of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. Miscellaneous Requirements

1. None

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Facility ID: 1677010107 Emissions Unit ID: B007 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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 - (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/fuel oil-fired boiler, 50 million Btu/hr maximum input capacity	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-10	See A.2.b below.
	OAC rule 3745-18-83	See A.2.c below.
	40 CFR 52.1881	See A.2.d below.

2. Additional Terms and Conditions

- (a) Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. Particulate emissions shall not exceed 0.020 pound per million Btu of actual heat input. The sulfur dioxide emission limitation based upon OAC rule 3745-18-83 is replaced by the sulfur dioxide emission limitation based upon 40 CFR 52.1881. Sulfur dioxide emissions shall not exceed 1.83 pounds per million Btu of actual heat input.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

Note: the permittee states in the application that natural gas is the primary fuel of this emissions unit and no fuel oil has been burned since the third quarter of 1990.

2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as-received basis:
 - a. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.83 pounds of sulfur dioxide per million Btu of actual heat input; and
 - b. a heat content greater than 135,000 Btu per gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the weighted, arithmetic average of the analytical results provided by the permittee or oil supplier for all shipments of oil during each calendar month.

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 appropriate Ohio EPA District Office or local air agency.
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 and the permittee's or oil supplier's analyses for sulfur content and heat content.
3. The permittee shall record on a monthly basis the natural gas and/or fuel oil usage in this emissions unit.
4. For each day during which the permittee burns a fuel other than natural gas and/or number two 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 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.
2. 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/gallon) for each shipment of oil. The following information shall also be included with the 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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

0.020 pound of particulate matter per million Btu of actual heat input

Applicable Compliance Method:

To demonstrate compliance with OAC rule 3745-17-10 when burning distillate fuel oil the permittee shall multiply the particulate emission factor of 0.002 pound of particulate emissions per gallon burned by the maximum hourly distillate fuel oil consumption rate of 370 gallons per hour, and divide by 50 mmBtu/hr.

To demonstrate compliance with OAC rule 3745-17-10 when burning natural gas, the permittee shall multiply the particulate emission factor of 13.5 pounds of particulate emissions per million cubic feet burned by the maximum hourly natural gas consumption rate (0.05 million cubic feet per hour), and divide by 50 mmBtu/hr.

Emission Limitation:

1.83 pounds of sulfur dioxide per million Btu of actual heat input

Applicable Compliance Method:

When burning distillate fuel oil compliance shall be based upon the volume and analytical results of each shipment of oil, and the use of the equation contained in OAC rule 3745-18-04(F)(2) to calculate the actual sulfur dioxide emission rate for each calendar month.

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. **Miscellaneous Requirements**

1. None