Facility ID: 1431070132 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: 1431070132 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
48.2 MMBtu/Hr Natural Gas/No. 2 Oil-Fired Boiler (#1)	OAC rule 3745-31-05 (PTI 14-3326)	See A.2.a through A.2.c below.
	40 CFR Part 60, Subpart Dc	Less stringent than the emission limitations outlined in OAC rule 3745-31-05.
	OAC rule 3745-17-07(A)	Less stringent than the visible particulate emission limitation outlined in OAC rule 3745-31-05.
	OAC rule 3745-17-10	Same as or less stringent than the particulate matter (PM) emission limitations outlined in OAC rule 3745-31-05.
	OAC rule 3745-18-37	Less stringent than the sulfur dioxide (S02) emission limitations outlined in OAC rule 3745-31-05.
	OAC rule 3745-35-07	See A.2.d below.

2. **Additional Terms and Conditions**

   (a) The following emission limitations shall not be exceeded when burning only natural gas:

   0.005 lb PM/MMBtu actual heat input
   0.0006 lb SO2/MMBtu actual heat input
   0.10 lb nitrogen oxides (NOx)/MMBtu actual heat input
   0.16 lb carbon monoxide (CO)/MMBtu actual heat input
   0.009 lb volatile organic compounds (VOC)/MMBtu actual heat input
   The following emission limitations shall not be exceeded when burning No. 2 fuel oil:

   0.020 lb PM/MMBtu actual heat input
   0.30 lb SO2/MMBtu actual heat input
   0.17 lb NOx/MMBtu actual heat input
   0.20 lb CO/MMBtu actual heat input
   0.0014 lb VOC/MMBtu actual heat input
   Visible particulate emissions from any stack shall not exceed 20% opacity, as a six-minute average, except for a one-minute period of not more than 27% opacity.
   The combined total CO emissions from the burning of natural gas and No. 2 fuel oil in emissions units B004, B005, and B006 shall not exceed 99.9 TPY, based upon a rolling, 365-day summation.

B. **Operational Restrictions**

1. This emissions unit shall employ a low NOx burner at all times when the unit is in operation.

2. Annual usage of No. 2 fuel oil in this emissions unit shall not exceed 250,000 gallons per year, based upon a rolling, 365-day summation.

3. The combined annual usage of natural gas in emissions units B004, B005, and B006 shall not exceed 1086 million cubic feet per year based upon a rolling, 365-day summation.

4. The sulfur content of each shipment of No. 2 fuel oil received for burning in this emissions unit shall not exceed 0.3%, by weight.

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 Hamilton County Department of Environmental Services.

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 SO2 emission rate in lb/MMBtu.

3. The permittee shall maintain daily records of the following information for this emissions unit and emissions units B004, B005, and B006 combined:

   a. the total amount of natural gas burned (in million cubic feet);

   b. the rolling, 365-day summation of the natural gas burned (in million cubic feet);

   c. the total amount of No. 2 fuel oil burned, in gallons; and

   d. the rolling, 365-day summation of the No. 2 fuel oil usage, in gallons.

D. **Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services of any deviation of the No. 2 fuel oil specification in section B.4. The notification shall include a copy of the results of the fuel analyses and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the exceedance occurs.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of:

   a. the rolling, 365-day, natural gas usage limitation for emissions units B004, B005, and B006; and

   b. the rolling, 365-day, No. 2 fuel oil usage limitation for this emissions unit.

3. The permittee shall also submit annual reports which specify the following:

   a. the total natural gas usage for emissions units B004, B005, and B006;

   b. the total No. 2 fuel oil usage for this emissions unit; and

   c. the total emissions of CO from emissions units B004, B005, and B006.

   These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Fuel Usage Limitations:

   Compliance with the fuel usage limitations shall be demonstrated by the record keeping requirements outlined in section C.

2. Visible Particulate Emission Limitation:

   Compliance with visible particulate emission limitation shall be demonstrated by the method outlined in OAC rule 3745-17-03(B)(1).

3. PM Emission Limitations:

   a. Compliance with the PM emission limitations shall be demonstrated by the record keeping requirements in sections A.III.1, 2, and 3 of this permit, and the formulae found in AP-42, 5th Edition, Section 1.4, Natural Gas Combustion, and Section 1.3, Fuel Oil Combustion.

   b. If testing is required to demonstrate compliance with the allowable PM emission limitations, testing shall be conducted using the following methods:

   Methods 1 through 5 of 40 CFR Part 60, Appendix A, or approved variants.

4. SO2 Emission Limitations:

   a. Compliance with the SO2 emission limitations shall be demonstrated by the record keeping requirements in sections A.III.1, 2, and 3 of this permit, and the formulae found in AP-42, 5th Edition, Section 1.4, Natural Gas Combustion, and Section 1.3, Fuel Oil Combustion.

   b. If testing is required to demonstrate compliance with the allowable SO2 emission limitations, testing shall be conducted using the following methods:

   Methods 1 through 4 and 6 of 40 CFR Part 60, Appendix A, or approved variants.

5. NOx Emission Limitations:

   a. Compliance with the NOx emission limitations shall be demonstrated by the monitoring and/or record keeping requirements in sections A.III.1, 2, 3, and 4 of this permit.

   b. If testing is required to demonstrate compliance with the allowable NOx emission limitations, testing shall be conducted using the following methods:

   Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A, or approved variants.

6. CO Emission Limitations:

a. Compliance with the CO emission limitations shall be demonstrated by the record keeping requirements in sections A.III.1, 2, and 3 of this permit, and the formulae found in AP-42, 5th Edition, Section 1.4, Natural Gas Combustion, and Section 1.3, Fuel Oil Combustion.

b. If testing is required to demonstrate compliance with the allowable CO emission limitations, testing shall be conducted using the following methods:

Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A, or approved variants.

7. VOC Emission Limitations:

a. Compliance with the VOC emission limitations shall be demonstrated by the record keeping requirements in sections A.III.1, 2, and 3 of this permit, and the formulae found in AP-42, 5th Edition, Section 1.4, Natural Gas Combustion, and Section 1.3, Fuel Oil Combustion.

b. If testing is required to demonstrate compliance with the allowable VOC emission limitations, testing shall be conducted using the following methods:

Methods 1 through 4 and 25 of 40 CFR Part 60, Appendix A, or approved variants.

F. **Miscellaneous Requirements**

1. The terms and conditions in sections A through F of this permit are federally enforceable, pursuant to OAC rule 3745-35-07.