Facility ID: 1431131566 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

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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
20.9 mmBtu/hr natural gas/ #2 fuel oil steam generator, with low NOx burners	OAC rule 3745-31-05 (PTI 14-3390)	See A.2.a. and b.
	40 CFR, Part 60, Subpart Dc.	less stringent than the limit established pursuant to OAC rule 3745-31-05
	OAC rule 3745-17-07(A)	See A.2.c.
	OAC rule 3745-17-10(C)(1)	less stringent than the limit established pursuant to OAC rule 3745-31-05
	OAC rule 3745-18-06(D)	less stringent than the limit established pursuant to OAC rule 3745-31-05

2. **Additional Terms and Conditions**

   (a) Best available technology (BAT) for this emissions unit shall be the use of natural gas as the primary fuel and the use of low NOx burners, with #2 fuel oil as a backup fuel with usage restrictions.
   The permittee shall not exceed the following limitations:

   Pollutant lb/mmBtu lb/mmBtu
   . (when firing natural gas) (when firing #2 fuel oil)
   PE 0.0062 0.0144
   SO2 0.0006 0.308
   CO 0.061 0.036
   NOx 0.13 0.145
   OC 0.0058 0.004
   Visible particulate emissions from this emissions unit shall not exceed 20% opacity, as a six-minute average, except as specified by rule.

B. **Operational Restrictions**

1. The sulfur content of the #2 fuel oil employed in this emissions unit shall not exceed 0.3% by weight.

2. The #2 fuel oil usage for this emissions unit shall not exceed 112,340 gallons/year, as a rolling, 365-day summation.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall record and maintain daily records for this emissions unit which list:

   a. the total amount of #2 fuel oil employed in gallons; and

   b. the rolling, 365-day summation of fuel usage in gallons.

   These records shall be maintained for a period of not less than three years.

2. 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.

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.

D. **Reporting Requirements**

1. The permittee shall submit quarterly reports for sources B004-B007 which summarize the monthly amount of fuel oil combusted and the 365-day summation amount of fuel oil combusted. These reports shall be submitted to the Hamilton County Department of Environmental Services by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarter.

2. The permittee shall submit to the Hamilton County Department of Environmental Services, on a quarterly basis, copies of the oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The oil supplier's analyses shall document the sulfur content (percent) and heat content (Btu/gallon) of each shipment of oil.

   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 emissions limitations and operating restrictions in Sections A.1., A.2.b., and B. of these terms and conditions shall be determined in accordance with the following methods:
   Emission Limit:

   20% opacity, as a six-minute average

   Applicable Compliance Method:

   Compliance with the above limitation shall be determined by the method specified in OAC rule 3745-17-03(B)(1).
   Emission Limit:

   0.13 lb/mmBtu of NOx (natural gas) and 0.145 lb/mmBtu of NOx (fuel oil)

   Applicable Compliance Method:

   Compliance shall be based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

   If testing is required to demonstrate compliance with the allowable emission limitation of 0.13 lb/mmBtu NOx or 0.145 lb/mmBtu NOx, the testing shall be conducted using the following method:

   40 CFR, Part 60, Appendix A, Method 7E
   Emission Limit:

   0.0006 lb/mmBtu of SO2 (natural gas) and 0.308 lb/mmBtu of SO2 (fuel oil)

   Applicable Compliance Method:

   Compliance shall be based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

   If testing is required to demonstrate compliance with the allowable emission limitation of 0.0006 lb/mmBtu SO2 or 0.308 lb/mmBtu SO2, the testing shall be conducted using the following method:

   40 CFR, Part 60, Appendix A, Method 6
   Emission Limit:

   0.0058 lb/mmBtu of OC (natural gas) and 0.004 lb/mmBtu of OC (fuel oil)

   Applicable Compliance Method:

   Compliance shall be based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

   If testing is required to demonstrate compliance with the allowable emission limitation of 0.0058 lb/mmBtu or 0.004 lb/mmBtu OC, the testing shall be conducted using the following method:

   40 CFR, Part 60, Appendix A, Method 25
   Emission Limit:

   0.061 lb/mmBtu of CO (natural gas) and 0.036 lb/mmBtu of CO (fuel oil)

   Applicable Compliance Method:

   Compliance shall be based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

   If testing is required to demonstrate compliance with the allowable emission limitation of 0.061 lb/mmBtu CO or 0.036 lb/mmBtu CO, the testing shall be conducted using the following method:

   40 CFR, Part 60, Appendix A, Method 10
   Emission Limit:

   0.0062 lb/mmBtu of particulate emissions (PE) (natural gas) and 0.0144 lb/mmBtu of PE (fuel oil)

Applicable Compliance Method:

Compliance shall be based on emission factors specified in USEPA reference document AP-42, Fifth Edition, Chapter 1, External Combustion Sources.

If testing is required to demonstrate compliance with the allowable emission limitation of 0.0062 lb/mmBtu PE or 0.0144 lb/mmBtu PE, the testing shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5
Operational Restrictions:

Sulfur content of #2 fuel oil shall not exceed 0.3% by weight; and
#2 fuel oil usage shall not exceed 112,340 gallons/year as a rolling, 365-day summation.

Compliance with the sulfur content and maximum usage restrictions for #2 fuel oil shall be based upon the record keeping and reporting requirements performed pursuant to Sections C. and D. of this permit.

F. **Miscellaneous Requirements**

1. Should the permittee decide to change fuels for this emissions unit on a permanent basis, a Permit to Install application shall be submitted to Hamilton County Department of Environmental Services for review and approval at least 90 days prior to the change.