

Facility ID: 0142010014 Issuance type: Title V Proposed Permit

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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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 0142010014 Issuance type: Title V Proposed Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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Facility ID: 0142010014 Issuance type: Title V Proposed Permit

### b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

B001 - boiler #1, 6.28 mmBtu/hr, gas/#2 fuel oil boiler;  
B002 - boiler #2, 6.28 mmBtu/hr, gas/#2 fuel oil boiler;  
B003 - boiler #3, 2.51 mmBtu/hr, gas boiler; and  
B004 - emergency power diesel engine, 3.7 mmBtu/hr.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitation and/or control requirements contained within a permit to install for the emissions unit.

[Go to Part III for Emissions Unit N002](#)

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Facility ID: 0142010014 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 0142010014 Emissions Unit ID: N002 Issuance type: Title V Proposed Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
Medium Hospital/Medical/Infectious Waste Incinerator, 275 lbs/hr batch charge equipped with a wet scrubber	40 CFR Part 62 Subpart HHH (Federal Implementation Plan requirements for Hospital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	Particulate emissions (PE): 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust gas
		Sulfur dioxide (SO <sub>2</sub> ): 55.0 parts per million (ppm), by volume
		Nitrogen oxides (NO <sub>x</sub> ): 250.0 ppm, by volume
		Carbon monoxide (CO): 40.0 ppm, by volume
		Dioxins/Furans (D/F): - 55 gr/billion dscf of total D/F or 1.0 gr/billion dscf of D/F Toxic Equivalency Factor (TEQ)
		Hydrogen chloride (HCl): 100 ppm, by volume or 93% reduction
		Lead (Pb): 0.52 gr/1000 dscf or 70% reduction
		Cadmium (Cd): 0.07 gr/1000 dscf or 85% reduction
		Mercury (Hg): 0.24 gr/1000 dscf or 85% reduction
		(All units corrected to 7% oxygen, dry basis at standard conditions)
	OAC rule 3745-75-02	Arsenic (As) and compounds: 0.0042 lb/hr
		Beryllium (Be) and compounds: 0.0076 lb/hr
		Chromium (Cr) and compounds: 0.0015 lb/hr
		Nickel (Ni) and compounds: 0.0076 lb/hr
		Visible PE shall not exceed 5 percent opacity, except for a 6-minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.
	OAC rule 3745-17-09(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 62, Subpart HHH.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-75-02.
	OAC rules 3745-75-02(B), (D), (E), (F)(3), F(5), and (F)(6)	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 62, Subpart HHH.

2. **Additional Terms and Conditions**

- a. The emission limitations established pursuant to 40 CFR Part 62, Subpart HHH shall apply at all times except during periods of startup, shutdown, or malfunction, provided that no hospital waste or medical/infectious waste is charged to the HMIWI during periods of startup, shutdown, or malfunction.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The maximum daily operational hours for this emissions unit shall not exceed fourteen (14) hours.
2. The maximum charge rate for this emissions unit shall not exceed 275 lbs/hr.
3. All incineration shall occur in a controlled air multi-chamber incinerator, or equivalent technology as approved by the director, which provides complete combustion of waste, excluding metallic items, to carbonized or mineralized ash. Any ash that does not meet the criteria shall be re-incinerated.
4. The primary combustion chamber of this emissions unit shall be maintained so that the exit gas is a minimum temperature of one thousand two hundred (1200) degrees Fahrenheit.
5. The secondary combustion chamber of this emissions unit shall operate so that the gas exiting the secondary combustion chamber is a minimum of one thousand eight hundred (1800) degrees Fahrenheit.
6. The secondary combustion chamber of this emissions unit shall allow for a one-second retention time at one thousand eight hundred (1800) degrees Fahrenheit.
7. The emissions unit shall incorporate a lockout system which will prevent the ignition of waste until the exit gas temperature of the secondary chamber reaches one thousand eight hundred (1800) degrees Fahrenheit and which will prevent recharging until the combustion and burn-down cycles are complete.
8. The stack or stacks of this emissions unit shall be designed to minimize the impact of the emissions on employees, residents, patients, visitors, or nearby residences. The design of this emissions unit shall meet good engineering practices so as not to cause excessive concentrations of any air contaminant at any air intake for heating and cooling of any building, or at operable windows, or doors.
9. This emissions unit must be equipped with an air lock system to prevent opening the incinerator to the room environment. The volume of the loading systems shall be designed so as to prevent overcharging of the unit to assure complete combustion of waste.
10. This emissions unit, including all associated equipment and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.
11. Infectious waste that is also radioactive shall be managed in accordance with the applicable rules of the Ohio Department of Health and regulations of the United States Nuclear Regulatory Commission. Radioactive waste or infectious radioactive waste which has levels of radioactivity that require special treatment or disposal according to United States Nuclear Regulatory Commission and Ohio Department of Health requirements shall not be charged into this emissions unit.
12. The owner or operator of this emissions unit shall not intentionally dispose of the following items by burning in the incinerator:
  - a. visible globules of mercury;
  - b. nickel-cadmium batteries;
  - c. switches, thermometers, batteries, and other devices containing mercury; and
  - d. bags or other containers for infectious waste handling which contain cadmium, chromium, or lead as a pigmenting agent.
13. This emissions unit is to be operated only by properly trained personnel. A minimum of twenty four (24) hours of incinerator operation training shall be provided to each operator before he/she is allowed to operate the emissions unit. This may include, for each operator, the successful completion of the training course in the operation and maintenance of hospital medical waste incinerators developed by the Control Technology Center, U.S. EPA, courses or instructions provided by incinerator manufacturers, professional engineering organizations, colleges or universities, or Ohio EPA. A copy of all the training records for each operator shall be immediately available to the Ohio EPA personnel upon request.
 

The permittee shall have a fully trained and qualified HMIWI operator, either at the facility or able to be at the facility within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators. The HMIWI operator can obtain training and qualification through a State-approved program or a training program that meets requirements listed in 40 CFR Part 62, Subpart HHH.
14. The pressure drop across the wet scrubber or the horsepower or amperage to the wet scrubber for this emissions unit shall be maintained at a minimum level in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.
15. The scrubber liquid flow rate for this emissions unit shall be maintained at a minimum flow rate in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.
16. The scrubber pH for this emissions unit shall be maintained at a minimum pH in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.
17. The flue gas temperature for this emissions unit shall be maintained under a maximum temperature in accordance with the maximum operating parameters established during the performance test to determine compliance with the emission limits.

18. Use of a bypass stack (except during startup, shutdown, or malfunction) shall constitute a violation of the particulate, dioxin/furan, hydrogen chloride, lead, cadmium, and mercury emissions limits.
19. For units not equipped with a carbon monoxide monitor, operation of the emissions unit above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the carbon monoxide emission limit.
20. Operation of the emissions unit above the maximum charge rate, below the minimum secondary chamber temperature, and below the minimum scrubber liquor flow rate (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the dioxin/furan emission limit.
21. Operation of the emissions unit above the maximum charge rate and above the maximum flue gas temperature (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the mercury emission limit.
22. Operation of the emissions unit above the maximum charge rate and below the minimum scrubber liquor PH (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the hydrogen chloride emission limit.
23. Operation of the emissions unit above the maximum charge rate and below the minimum pressure drop across the wet scrubber or below the minimum horsepower or amperage to the system (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the particulate emission limit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for each day.
2. The permittee shall maintain the following records at the facility:
  - a. a summary of the applicable standards under 40 CFR Part 62, Subpart HHH;
  - b. a description of basic combustion theory applicable to this emissions unit;
  - c. procedures for receiving, handling, and charging waste;
  - d. procedures for startup, shutdown, and malfunction;
  - e. procedures for maintaining proper combustion air supply levels;
  - f. procedures for operating this emissions unit and associated air pollution control systems within the standards established under 40 CFR Part 62, Subpart HHH;
  - g. procedures for responding to malfunction or conditions that may lead to malfunction;
  - h. procedures for monitoring emissions from this emissions unit;
  - i. reporting and record keeping procedures; and
  - j. procedures for handling ash.

The permittee shall keep the above information in a readily accessible location for all HMIWI operators. This information, along with records of training, shall be available for inspection by the Ohio EPA upon request. The permittee shall review the above information at least annually.
3. The permittee shall have a waste management plan. The waste management plan shall identify both the feasibility of, and the approach for, separating certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste. The waste management plan may address, but is not limited to, paper, cardboard, plastics, glass, battery, or metal recycling, or purchasing recycled or recyclable products. The waste management plan may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream. The waste management plan should identify, where possible, reasonably available additional waste management measures, taking into account the effectiveness of waste management measures already in place, the costs of additional measures, the emission reductions expected to be achieved, and any other potential environmental or energy impacts they might have. In developing the waste management plan, the permittee shall consider the American Hospital Association publication entitled "Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities." This publication (AHA Catalog No. 057007) is available for purchase from the American Hospital Association (AHA) Service, Inc., Post Office Box 92683, Chicago, Illinois 60675-2683.
4. The permittee shall have this emissions unit inspected annually using preventive maintenance procedures recommended by the equipment manufacturer. Each inspection shall include a written report identifying any needed repairs to the unit. If repairs are needed, the incinerator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit. At a minimum, the permittee shall do the following during the inspection:
  - a. inspect all burners, pilot assemblies, and pilot sensing devices for proper operation, and clean pilot flame sensor as necessary;
  - b. check for proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;
  - c. inspect hinges and door latches, and lubricate as necessary;
  - d. inspect dampers, fans, and blowers for proper operation;
  - e. inspect incinerator door and door gaskets for proper sealing;
  - f. inspect motors for proper operation;
  - g. inspect primary chamber refractory lining, and clean and repair/replace lining as necessary;
  - h. inspect incinerator shell for corrosion and/or hot spots;
  - i. inspect secondary/tertiary chamber and stack, and clean as necessary;
  - j. inspect mechanical loader, including limit switches, for proper operation, if applicable;
  - k. visually inspect waste bed (grates), and repair/ seal, as necessary;
  - l. for the burn cycle that follows the inspection, document that the emissions unit is operating properly and make any necessary adjustments;
  - m. inspect air pollution control device(s) for proper operation;
  - n. inspect waste heat boiler systems to ensure proper operation, if applicable;
  - o. inspect bypass stack components;
  - p. ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment;

and

q. generally observe that the equipment is maintained in good operating condition. The permittee shall complete any necessary repairs within 10 operating days of the inspection unless the permittee obtains written approval from the Ohio EPA establishing a different date when all necessary repairs shall be completed.

5. The permittee shall properly install, calibrate, operate, and maintain equipment to continuously monitor and record the primary combustion exhaust gas temperature, the secondary combustion exhaust gas temperature, the flue gas exhaust temperature, and the bypass stack temperature (if applicable) when the incinerator is in operation. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within + 0.75 percent of the temperature being measured or + 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals. The permittee shall record the temperatures on a once per minute basis.

The equipment specified in this term and condition shall be installed within 3 months after issuance of this permit.

6. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the static pressure drop across the scrubber or the horsepower or amperage to the scrubber, the scrubber liquid flow rate and the scrubber liquid pH while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The equipment specified in this term and condition shall be installed within 3 months after issuance of this permit.

After the equipment specified in this term and condition is installed, the permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water, or the horsepower or amperage to the wet scrubber on a once per minute basis;
  - b. the scrubber liquid flow rate, in gallons per minute, on a once per minute basis;
  - c. the pH of the scrubber liquid, on a once per minute basis; and
  - d. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
7. Radioactive waste shall not be charged to this emissions unit. The permittee shall operate and maintain equipment to continuously monitor the radioactivity of all waste prior to combustion. This monitor shall be equipped with an alarm which sounds a warning when radioactive waste is present. For purposes of this permit, radioactive waste shall be defined as any waste which measures above ambient background levels of radiation. All radioactive infectious waste shall be managed in accordance with the applicable rules of the Ohio Department of Health and the regulations of the United States Nuclear Regulatory Commission.
8. A scale (accurate to within one pound) shall be installed near this emissions unit to weigh all of the material charged to the unit. A written log shall be kept that records the amount of material charged to any unit on a pounds per hour basis and a pounds per batch basis. Alternative arrangements may be approved by the director provided they can shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of charging rates.
9. The permittee shall maintain the following records, along with the date of each record:
- a. the emissions unit charge dates, times, and weights and hourly charge rates;
  - b. primary chamber temperatures recorded during each minute of operation;
  - c. secondary chamber temperatures recorded during each minute of operation;
  - d. liquid flow rate to the wet scrubber inlet during each minute of operation;
  - e. pressure drop across the wet scrubber system during each minute of operation, or horsepower or amperage to the wet scrubber during each minute of operation;
  - f. temperature at the flue gas exhaust during each minute of operation;
  - g. the pH at the inlet to the wet scrubber during each minute of operation;
  - h. records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 operating days of an inspection or the time frame established by the EPA Administrator or delegated enforcement authority; and
  - i. records indicating use of the bypass stack, including dates, times, and durations.
10. The permittee shall identify each calendar day for which data on emission rates or operating parameters specified in this section were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.
11. The permittee shall maintain and make available to Ohio EPA inspectors a log that identifies each calendar day for which data on emission rates or operating parameters specified above exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
12. The permittee shall maintain and make available to Ohio EPA inspectors a log of the records of calibration of for the monitoring devices required above.
13. The permittee shall maintain and make available to Ohio EPA inspectors a log that identifies the calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken.
14. The permittee shall maintain and make available to Ohio EPA inspectors a log that documents the results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.

15. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of HMIWI operators who have completed review of the documentation required in section A.III.2, including the date of the initial review and all subsequent monthly reviews.
16. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training.
17. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of the HMIWI operators who have met the criteria for qualifications under 40 CFR Part 62 section 62.14423 and the dates of their qualification.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit annual reports which provide the following information for the previous calendar year:
  - a. the total amount of infectious waste incinerated, in tons;
  - b. an identification of all hours of operation during which the charge rate exceeded the emissions unit's design capacity or the charge rate operational restriction, including the actual charge rates for all such hours of operation;
  - c. the number of alarms from the radioactive waste monitor and the total amount of radioactive waste was charged to this emissions unit, in pounds;
  - d. the dates in which the operator regulatory information documents were reviewed and updated;
  - e. the dates in which the waste management plan document was reviewed and updated;
  - f. the dates in which the monthly equipment inspection was completed; and
  - g. the log of repairs not completed within 10 operating days of the inspection.

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

2. If a time period longer than 10 days is needed to complete the repairs observed during the annual inspections, the Ohio EPA, Central District Office shall be notified in writing. This notice shall list the repairs needed and the reason(s) the repairs could not be accomplished within the required time period. All inspection and repair reports shall be kept by the permittee for a period of 5 years and shall be made available to the Ohio EPA, Central District Office upon request.
3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the daily operating hours limitation.
 

These reports shall be submitted in accordance with General Term and Condition A.1.c.ii.
4. The permittee shall submit quarterly deviation (excursion) reports which provide the following information for each period during which the primary combustion exhaust gas temperature, the secondary combustion exhaust gas temperature, the flue gas exhaust temperature and the bypass stack temperature (if applicable) fall below the applicable limitations:
  - a. the date of the excursion;
  - b. the time interval over which the excursion occurred;
  - c. the parametric values during the excursion;
  - d. the cause(s) for the excursion; and
  - e. the corrective action which has been or will be taken to prevent similar excursions in the future.

These reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

5. The permittee shall submit quarterly deviation (excursion) reports which provide the following information for each period during which the allowable range for pressure drop across the scrubber, the minimum scrubber liquid flow rate and the minimum scrubber liquid pH did not comply with the allowable range or minimum operating parameter specified above:
  - a. the date of the excursion;
  - b. the time interval over which the excursion occurred;
  - c. the parametric values during the excursion;
  - d. the cause(s) for the excursion; and
  - e. the corrective action which has been or will be taken to prevent similar excursions in the future.

These reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

6. All reports required by these terms and conditions shall be submitted to the Ohio EPA, Central District Office - Division of Air Pollution Control and the U.S. EPA Region V - Air and Radiation Division, unless otherwise specified.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. The permittee shall conduct a performance test for PE, opacity, CO, NO<sub>x</sub>, dioxin/furan, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni within 3 months after issuance of this permit using the test methods and procedures outlined below. This emission test shall be performed to demonstrate compliance with the emission limits in section A.I.1 and to establish the minimum and maximum operating parameters specified in sections A.II.14 to A.II.17 of this permit. See section A.VI.3 for additional information concerning the compliance status of this emissions unit.

2. The permittee shall conduct additional emission testing for this emissions unit in accordance with the following requirements:
- determine compliance with the opacity limit by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods described below; and
  - determine compliance with the PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni emission limits by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods described below. If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant (PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, or Ni), the permittee may forego a performance test for that pollutant for the next 2 years. At a minimum, the permittee shall conduct a performance test for PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni every third year (no more than 36 months following the previous performance test). If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, or Ni), the permittee may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emission limit, the permittee shall conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the emission limit. The Administrator may waive the requirement to conduct annual performance tests over a 3-year period.
3. The permittee shall use the following test methods and procedures to conduct performance tests to determine compliance with the emission limits:
- the emissions test(s) shall be conducted at the maximum charge rate unless otherwise specified or approved by the Ohio EPA;
  - personnel from the Ohio EPA, Central District Office shall be permitted to witness the emissions test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters;
  - the Ohio EPA, Central District Office may request a repeat performance test at any time;
  - all performance tests shall consist of a minimum of three test runs conducted under representative operating conditions;
  - the minimum sample time shall be 1 hour per test run unless otherwise indicated in this section;
  - the permittee shall use EPA Reference Method 1 of 40 CFR part 60, Appendix A to select the sampling location and number of traverse points;
  - the permittee shall use EPA Reference Method 3, 3A, or 3B of 40 CFR part 60, Appendix A for gas composition analysis, including measurement of oxygen concentration (the permittee shall use EPA Reference Method 3, 3A, or 3B of 40 CFR part 60, Appendix A simultaneously with each reference method);
  - the permittee shall adjust pollutant concentrations to 7 percent oxygen;
  - the permittee shall use EPA Reference Method 5 or 29 of 40 CFR part 60, Appendix A to measure particulate matter emissions;
  - the permittee shall use EPA Reference Method 9 of 40 CFR part 60, Appendix A to measure stack opacity;
  - the permittee shall use EPA Reference Method 10 or 10B of 40 CFR part 60, Appendix A to measure the CO emissions;
  - the permittee shall use EPA Reference Method 23 of 40 CFR part 60, Appendix A to measure total dioxin/furan emissions (the minimum sample time shall be 4 hours per test run);
  - the permittee shall use EPA Reference Method 26 of 40 CFR part 60, Appendix A to measure HCl emissions;
  - the permittee shall use EPA Reference Method 29 of 40 CFR part 60, Appendix A to measure As, Be, Cd, Cr, Pb, Hg and Ni emissions; and
  - use of the bypass stack during a performance test will invalidate the performance test.
- Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).
- A comprehensive written report on the results of the emissions test(s) shall be submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
4. The permittee may conduct a repeat performance test at any time to establish new values for the operating parameters.
5. The permittee may conduct a repeat performance test within thirty days of a violation of applicable operating parameter(s). These performance tests shall be conducted using the identical operating parameters that indicated a violation under sections A.II.14 to A.II.17 of this permit.
6. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
- Emission Limitation:**  
PE shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust gas.  
  
Applicable Compliance Method:  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 5 or 29.
  - Emission Limitation:**  
Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 55.0 parts per million by volume.  
  
Applicable Compliance Method:

The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

- c. **Emission Limitation:**  
Nitrogen oxides (NOx) emissions shall not exceed 250.0 parts per million by volume.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.
- d. **Emission Limitation:**  
Carbon monoxide (CO) emissions shall not exceed 40.0 parts per million by volume.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or 10B.
- e. **Emission Limitations:**  
Lead (Pb) emissions shall not exceed 0.52 grain per 1000 dry standard cubic foot or 70% reduction.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- f. **Emission Limitations:**  
Dioxin/furan (D/F) emissions shall not exceed 55 grains per billion dry standard cubic foot of total D/F or 1.0 grain per billion dry standard cubic foot of D/F Toxics Equivalency Factor (TEQ).
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 23.
- g. **Emission Limitations:**  
Hydrogen chloride (HCl) emissions shall not exceed 100 parts per million by volume or 93% reduction.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 26 or 26A.
- h. **Emission Limitations:**  
Cadmium (Cd) emissions shall not exceed 0.07 grain per 1000 dry standard cubic foot or 65% reduction.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- i. **mission Limitations:**  
Mercury (Hg) emissions shall not exceed 0.24 grain per 1000 dry standard cubic foot or 85% reduction.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- j. **Emission Limitation:**  
Arsenic and arsenic compound emissions shall not exceed 0.0042 pound per hour.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- k. **Emission Limitation:**  
Beryllium and beryllium compound emissions shall not exceed 0.0076 pound per hour.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- l. **Emission Limitation:**  
Chromium and chromium compound emission shall not exceed 0.0015 pound per hour.
- Applicable Compliance Method:**  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

- m. Emission Limitation:  
Nickel and nickel compound emissions shall not exceed 0.0076 pound per hour.  
  
Applicable Compliance Method:  
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.
- n. Emission Limitation:  
Visible PE shall not exceed 5 percent opacity, as a 6-minute average, except for a 6-minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.  
  
Applicable Compliance Method:  
The test method employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Method 9.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.
2. The Ohio EPA is currently working on revisions to OAC Chapter 3745-75. When these revisions are approved and become effective, the permittee shall apply for a revision to its Title V permit in order to meet the new requirements of OAC Chapter 3745-75.
3. The permittee was required to achieve final compliance with 40 CFR Part 62, Subpart HHH by September 15, 2002. The permittee conducted an initial performance test within 180 days of September 15, 2002 as required per 40 CFR Part 62, Subpart HHH; however, the required monitoring equipment needed to establish the minimum and maximum operating parameters specified in sections A.II.14 to A.II.17 of this permit was not installed at the time of the emission test.

In order to comply with 40 CFR Part 62, Subpart HHH, the permittee shall install monitoring equipment to continuously measure and record on a once per minute basis the following operating parameters:

- a. maximum flue gas temperature;
- b. minimum pressure drop across the wet scrubber or minimum horsepower or amperage to the wet scrubber;
- c. minimum scrubber liquid flow rate; and
- d. minimum scrubber liquid pH.

This monitoring equipment shall be installed within 3 months after issuance of this permit.

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Facility ID: 0142010014 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 0142010014 Emissions Unit ID: N002 Issuance type: Title V Proposed Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None