

Facility ID: 0278080634 Issuance type: Title V Draft 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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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

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

- Z001 - Diesel Dispensing Tanks
- Z002 - Parts Washer
- Z003 - 3500-Gallon Caustic Storage Tank
- Z004 - Waste Water Treatment
- B001 - Natural Gas Fired Boiler, 150 HP
- Z005 - Tub Wash Hot Water Heater

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

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0278080634 Emissions Unit ID: N001 Issuance type: Title V Draft 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>
Medical Waste Incinerator	40 CFR Part 62, Subpart HHH (Federal Plan requirements for Hospital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	a. Particulate emissions(PE): 0.015 grain per dry standard cubic foot of exhaust gases (gr/dscf) b. Carbon monoxide(CO): 40 parts per million (ppm) by volume as a 12-hour rolling average c. Dioxins/furans(D/F): 55 gr/billion dscf of total dioxins/furans or 1.0 gr/billion dscf of dioxins/furans Toxic Equivalency Factors (TEQ) d. Hydrogen chloride(HCl): 100 ppm by volume or 93% reduction e. Sulfur dioxide(SO2): 55 ppm by volume f. Nitrogen oxides(NOx): 250 ppm by volume g. Lead(Pb): 0.52 gr/1000 dscf or 70% reduction h. Cadmium(Cd): 0.07 gr/1000 dscf or 65% reduction i. 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	a. Visible emissions shall not exceed 5% opacity except for 6-minutes in any continuous 60-minute period during which the opacity shall not exceed 10%. b. Arsenic(As) and compounds: 0.0042 lb/hr c. Beryllium(Be) and compounds: 0.0076 lb/hr d. Chromium(Cr) and compounds: 0.0015 lb/hr
	OAC rule 3745-17-07	e. Nickel(Ni) and compounds: 0.0076 lb/hr The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-75-02.
	OAC rule 3745-17-09	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 62, Subpart HHH.
	OAC rules 3745-75-02(C),(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.

OAC rule 3745-31-05
PTI No. 02-3436

The emission limitations specified by this rule are less stringent than the emission limitations established pursuant to 40 CFR Part 62, Subpart HHH and OAC rule 3745-75-02.

2. **Additional Terms and Conditions**

(a) None

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II. **Operational Restrictions**

1. The waste material feed rate to this incinerator shall be limited to 1350 pounds per hour (or a rate established during the initial performance test), measured as 3-hour rolling averages.
2. 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 this criterion shall be re-incinerated.
3. The primary combustion chamber for this incinerator shall be maintained so that the exit gas is at a minimum temperature of 1400 degrees Fahrenheit. The secondary combustion chamber for this incinerator shall be operated so that the exit gas temperature is at a minimum of 1800 degrees Fahrenheit.
4. The secondary combustion chamber of this incinerator shall allow for a 2-second retention time at 1800 degrees Fahrenheit. Auxiliary heat input capacity, excluding any waste material heating value, shall be provided to maintain independently the secondary chamber at a temperature of 1800 degrees Fahrenheit until all waste materials are completely combusted.
5. This incinerator shall be equipped with an automatic feeder which is designed and operated so that wastes cannot be charged if the temperature of the gas exiting the secondary combustion chamber is less than 1800 degrees Fahrenheit.
6. Infectious waste shall not be loaded into the primary combustion chamber of this incinerator until the exit gas temperature has reached 1400 degrees Fahrenheit.
7. The stack(s) for this incinerator shall be designed to minimize the impact of the emissions on employees, residents, patients, visitors, and nearby residences. The design shall meet good engineering practices so as not to cause concentrations of any air contaminant at any air intake for heating and cooling of any building or at operable windows or doors.
8. If this incinerator is mechanically-fed, it must be equipped with an air lock system to prevent opening the incinerator to the room environment. The volume of the loading system shall be designed so as to prevent the overcharging of the unit to ensure complete combustion of the waste.
9. This incinerator shall be equipped with an air pollution control device designed to reduce hydrogen chloride emissions, dioxin/furan emissions, and mercury emissions and provide for continuous compliance with the hydrogen chloride, D/F, and Hg emission limits when the unit is in operation.
10. This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.
11. Under no circumstances shall radiological or radioactive waste be charged into this unit.
12. This incinerator shall be operated only by properly trained personnel. A minimum of 40 hours of incinerator operation training shall be provided to each operator before he or she is allowed to operate this incinerator. This may include, for each operator, the successful completion of the training course for 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 maintained on file for a period of 5 years and shall be immediately available to the Director (the Ohio EPA Northeast District Office) upon request.
13. This facility may not receive or incinerate any hazardous waste materials as defined in 40 CFR Part 216, Subpart D.
14. The permittee shall have this incinerator inspected monthly 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. These repairs shall be completed within 30 days of the inspection. If a time period longer than 30 days is needed to complete the repairs, the Ohio EPA Northeast 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 Director (the Ohio EPA Northeast District Office) upon request.
15. The permittee is required to have a fully trained and qualified HMIWI operator, either at the facility or on-call. A trained and qualified HMIWI operator is defined in 40 CFR part 62.14421-62.14423.
16. The permittee is required to maintain a site-specific HMIWI operating procedure, as required by 40 CFR part 62.14424, and to review this operating information annually.
17. The permittee is required to have a waste management plan, as required by 40 CFR part 62.14431-62.14432.
18. The permittee shall add sorbents to the air pollution control system to aid in the control of dioxin/furan,

mercury, and HCl. The hourly addition rate of each type of sorbent shall be maintained at or above the level documented during the initial performance testing.

19. During the initial performance testing, the permittee shall establish minimum (3-hour rolling average) operating parameter restrictions for:
 - a. liquid flow rate to the wet scrubber inlet;
 - b. horsepower or amperage to the wet scrubber;
 - c. pressure drop across the wet scrubber; and
 - d. the pH at the inlet to the wet scrubber.
20. During the initial performance testing, the permittee shall establish the maximum (3-hour rolling average) operating parameter restriction for the temperature at the outlet from the wet scrubber.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the primary combustion exhaust gas temperature, the secondary combustion exhaust gas temperature, and the bypass stack temperature 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.
2. The permittee shall operate and maintain continuous monitors and recorders that measure and record each minute, when the incinerator is in operation, the following parameters:
 - a. Liquid flow rate to the wet scrubber inlet.
 - b. Horsepower or amperage to the wet scrubber.
 - c. Pressure drop across the wet scrubber.
 - d. Temperature at the outlet from the wet scrubber.
 - e. The pH at the inlet to the wet scrubber.
3. Radioactive waste shall not be charged to this incinerator. 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.
4. A scale (accurate to within one pound) shall be installed near this incinerator to weigh all of the material charged to the unit. A record of the amount of material charged to this unit, on a pounds per 3-hour rolling average basis, shall be maintained as required by 40 CFR part 62.14454. (Alternative arrangements may be approved by the Director provided they can be shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of charging rates.)
5. A logbook shall be maintained for each continuous emissions monitoring system installed on this incinerator to document all activities involving the monitoring systems. Appropriate records should include, as a minimum, preventive maintenance, quality assurance and corrective action activities.
6. The permittee shall operate and maintain a device to weigh and record the amount dioxin/furan sorbent, HCl sorbent, and Hg sorbent used during each hour of operation of the HMIWI, as required by 40 CFR part 62.14453 and 62.1154.
7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
8. Prior to burning any infectious waste in this incinerator, the permittee shall install, operate and maintain equipment to continuously monitor and record the carbon monoxide emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60, section 60.13 and Appendix B, Performance Specification 4 and OAC rule 3745-75-04. The permittee shall maintain and operate the carbon monoxide continuous emissions monitoring system in accordance with 40 CFR Part 60, Appendix F. Any new continuous emissions monitoring (CEM) system for carbon monoxide shall be designed so that the requirements in 40 CFR Part 60, Appendix F can be achieved.

The permittee shall operate a CEM system to measure oxygen concentrations, for adjusting pollutant concentrations to 7 percent oxygen (as specified in 40 CFR part 62.14452(e)).

9. The permittee shall document all instances of carbon monoxide values in excess of the limitations specified in the terms and conditions of this permit.
10. The certified CEM system for carbon monoxide shall be the means by which compliance with the terms and conditions of this permit is determined. Compliance with the appropriate emission limitation shall be based upon 12-hour, rolling averages, calculated each hour as the average of the previous 12 operating hours (not including start-up, shutdown, or malfunctions.)
11. The carbon monoxide CEM system shall be equipped with an alarm which shall indicate whenever concentrations exceed 150 parts per million as an instantaneous measurement.

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IV. Reporting Requirements

1. Reporting Requirements for the Amount of Waste Incinerated

The permittee shall submit annual reports, by January 31 of each year, that provide the total amount of waste incinerated, in tons, during the previous calendar year.

The permittee also shall submit quarterly deviation (excursion) reports that identify all periods of operation during which the average charge rate exceeded the limitation specified in A.II.1. above, including the actual charge rates for all such periods of operation.
2. Reporting Requirements for Incinerator Temperature Excursions

The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which the primary or secondary combustion chamber exhaust gas temperature falls below the applicable limitation during normal operation:

 - a. the date of the excursion;
 - b. the time interval over which the excursion occurred;
 - c. the temperature 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.
3. Reporting Requirements for Sorbent Flow Rate Excursions

The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which minimum dioxin/furan sorbent, HCl sorbent, and/or Hg sorbent addition rate(s) fall (s) below the allowable sorbent addition rate(s) (established during the initial performance test, as required by 40 CFR part 62.14453) during normal operation:

 - a. the date of the excursion;
 - b. the time interval over which the excursion occurred;
 - c. the addition rate 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.
4. Reporting Requirements for Carbon Monoxide CEM Data

Pursuant to 40 CFR Part 60, section 60.7 and 60.13(h), 40 CFR Part 60, Appendix F and OAC rule 3745-75-05, the permittee shall submit quarterly reports that document all instances of carbon monoxide values in excess of the limitations specified in the terms and conditions of this permit. The permittee shall submit data assessment reports in accordance with 40 CFR Part 60, Appendix F.
5. Reporting Requirements for Visible Emission Checks

The permittee shall submit quarterly written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions.
6. Reporting Requirements for Emission Test Results

A comprehensive written report on the results of any emission test(s) shall be submitted within 30 days following completion of the test(s).
7. The following information shall be submitted no later than 60 days following the initial performance test:
 - a. the values for site-specific operating parameters established pursuant to 40 CFR part 62.14453; and
 - b. the waste management plan as specified in 40 CFR part 62.14431.
8. The permittee shall submit annual reports that contain the following information, pursuant to 40 CFR part 62.14463:
 - a. The highest maximum operating parameter and the lowest minimum operating parameter for each operating parameter recorded for the calendar year being reported, pursuant to 40 CFR part 62.14453.
 - b. The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to 40 CFR part 62.14453 for the calendar year preceding the year being reported, in order to provide a summary of the performance of the HMIWI over

- a 2-year period.
- c. Identification of calendar days for which emission rates or operating parameters 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.
 - d. Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective actions taken.
 - e. Any use of the bypass stack, duration of such use, reason for malfunction, and corrective actions taken.
9. All reports required by this permit shall be submitted to the Ohio EPA Northeast District Office , and until a state plan as required by 40 CFR part 60, subpart Ce is approved and becomes effective, a copy of all reports also must be submitted to the US EPA Region V office.
10. Reporting Requirements for Operating Parameter Excursions
- The permittee shall submit quarterly deviation (excursion) reports that provide the following information for each period during which minimum operating parameters for liquid flow rate to the wet scrubber inlet, horsepower or amperage to the wet scrubber, pressure drop across the wet scrubber, and the pH at the inlet to the wet scrubber fall(s) below the allowable operating parameters and for each period during which the maximum operating parameter for temperature at the outlet from the wet scrubber deviate from the allowable operating parameter restrictions (established during the initial performance test, as required by 40 CFR part 62.14453) during normal operation:
- a. the date of the excursion;
 - b. the time interval over which the excursion occurred;
 - c. the addition rate 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.

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V. **Testing Requirements**

1. Compliance with the emissions limitation(s) in section A.I.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

0.015 grain of PE per dry standard cubic foot of exhaust gases (gr/dscf)

Applicable Compliance Method:

Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5.
 - b. Emission Limitation:

40 ppm CO by volume

Applicable Compliance Method:

Compliance shall be demonstrated based upon the use of the continuous emissions monitoring system required in A.III.8.

If required, compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 10.
 - c. Emission Limitation:

55 gr/billion dscf of total dioxins/furans or 1.0 gr/billion dscf of TEQ

Applicable Compliance Method:

Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 23.
 - d. Emission Limitation:

100 ppm HCl by volume or 93% reduction

Applicable Compliance Method:

Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 26 or 26A.

- e. Emission Limitation:
55 ppm SO₂ by volume
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 6.
- f. Emission Limitation:
250 ppm NO_x by volume
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7.
- g. Emission Limitation:
0.52 gr Pb/1000dscf or 70% reduction
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- h. Emission Limitation:
0.07 gr Cd/1000dscf or 65% reduction
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- i. Emission Limitation:
0.24 gr Hg/1000dscf or 85% reduction
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- j. Emission Limitation:
0.0042 lb/hr of Arsenic(As) and compounds
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- k. Emission Limitation:
0.0076 lb/hr of Beryllium(Be) and compounds
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- l. Emission Limitation:
0.0015 lb/hr of Chromium(Cr) and compounds
Applicable Compliance Method:
Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- m. Emission Limitation:
0.0076 lb/hr of Nickel(Ni) and compounds
Applicable Compliance Method:

- Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 29.
- n. Emission Limitation:
- 5% opacity, except for 6 minutes in any continuous 60 minute period during which opacity shall not exceed 10%
- Applicable Compliance Method:
- Compliance shall be demonstrated based upon the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The initial performance emission testing shall be conducted within 6 months after the date final compliance is required under 40 CFR part 62.14470(b)(2)(v).
- b. The initial performance emission testing shall be conducted to demonstrate compliance for PE, opacity, CO, dioxin/furan, HCl, Pb, Cd, Hg, Ar, Be, Cr, and Ni. All performance tests must consist of a minimum of three runs under representative operating conditions. The minimum sample time must be 1 hour per test run unless otherwise indicated.
- c. The following test method(s) shall be employed to determine sampling location and gas composition analysis: Method 1,3,3A, or 3B of 40 CFR Part 60, Appendix A.
- d. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for PE: Method 5 or 29 of 40 CFR Part 60, Appendix A.
- e. The following test method(s) shall be employed to demonstrate compliance with stack opacity: Method 9 of 40 CFR Part 60, Appendix A.
- f. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for CO: Method 10 or 10B of 40 CFR Part 60, Appendix A.
- g. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for dioxin/furan: Method 23 of 40 CFR Part 60, Appendix A. The minimum sample time must be 4 hours per test run. If the permittee selected the toxic equivalency standards of D/F under 40 CFR part 62.14411, the procedure in 40 CFR part 62.14452(i) must be followed.
- h. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for HCl: Method 26 of 40 CFR Part 60, Appendix A. If the permittee selected the percentage reduction standard for HCl under 40 CFR part 62.14411, the procedure in 40 CFR part 62.14452(j) must be followed.
- i. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rates for Pb, Cd, Hg, Ar, Be, Cr, and Ni: Method 29 of 40 CFR Part 60, Appendix A. If the permittee selected the percentage reduction standard for HCl under 40 CFR part 62.14411, the procedure in 40 CFR part 62.14452(k) must be followed.
- j. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast District Office.
3. 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 Northeast 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 Northeast District Office's refusal to accept the results of the emission test(s).
4. Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
5. After the initial performance test is completed, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted on an annual basis (no more than 12 months following the previous performance test).
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates, CO, and HCl.

The emission testing shall be conducted to demonstrate compliance with the visible particulate emission limitation.

If required, the emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for Pb, Cd, Hg, Ar, Be, Cr, and Ni.

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VI. **Miscellaneous Requirements**

1. 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.

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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. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

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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>
Autoclave"A"	OAC rule 3745-31-05(B) PTI No. 02-3914	See A.II.1 and 2.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. This autoclave shall be operated at a minimum temperature of 333 degrees Fahrenheit, with a minimum batch cycle time of 25 minutes.
2. The daily charge rate to this emissions unit shall not exceed 38,400 pounds per day.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature within the autoclave for its entire cycle when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. A scale (accurate to within one pound) shall be installed near this autoclave to weigh all of the material charged to the unit. A record of the amount of material charged to this unit on a pounds per day basis shall be kept.

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IV. Reporting Requirements

1. The permittee shall submit quarterly temperature deviation (excursion) reports that identify each block of time during which the temperature within the autoclave, when the emissions unit was in operation, was less than the required temperature specified above.
2. The permittee shall submit quarterly deviation (excursion) reports that identify any operating cycle that was below 25 minutes in duration.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the charge rate to the autoclave exceeded daily limit of 38,400 pounds.

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V. **Testing Requirements**

1. The permittee shall perform spore testing on the autoclave at a minimum of once per month. Multiple samples of spore strips containing high temperature resistant spores (for example, Bacillus Stearothermophilus) shall be placed in the autoclave, both on the exterior and on the interior of the charge prior to a cycle being run, and shall be incubated for a standard time frame and analyzed for growth.

Results of these tests shall be maintained at the site for a minimum of three (3) years and shall be available to the Ohio EPA for review during normal business hours.

2. The permittee shall perform spore testing as described in A.V.1 on the autoclave by an independent laboratory at a minimum of once year .

Results of these tests shall be submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0278080634 Emissions Unit ID: P001 Issuance type: Title V Draft 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. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0278080634 Emissions Unit ID: P002 Issuance type: Title V Draft 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>
Autoclave"B"	OAC rule 3745-31-05(B) PTI No. 02-3914	See A.II.1 and 2.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. This autoclave shall be operated at a minimum temperature of 333 degrees Fahrenheit, with a minimum batch cycle time of 25 minutes.
- 2. The daily charge rate to this emissions unit shall not exceed 38,400 pounds per day.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature within the autoclave for its entire cycle when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee.
- 2. A scale (accurate to within one pound) shall be installed near this autoclave to weigh all of the material charged to the unit. A record of the amount of material charged to this unit on a pounds per day basis shall be kept.

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly temperature deviation (excursion) reports that identify each block of time during which the temperature within the autoclave, when the emissions unit was in operation, was less than the required temperature specified above.
- 2. The permittee shall submit quarterly deviation (excursion) reports that identify any operating cycle that was below 25 minutes in duration.

3. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the charge rate to the autoclave exceeded daily limit of 38,400 pounds.

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V. **Testing Requirements**

1. The permittee shall perform spore testing on the autoclave at a minimum of once per month. Multiple samples of spore strips containing high temperature resistant spores (for example, Bacillus Stearothermophilus) shall be placed in the autoclave, both on the exterior and on the interior of the charge prior to a cycle being run, and shall be incubated for a standard time frame and analyzed for growth.

Results of these tests shall be maintained at the site for a minimum of three (3) years and shall be available to the Ohio EPA for review during normal business hours.

2. The permittee shall perform spore testing as described in A.V.1 on the autoclave by an independent laboratory at a minimum of once year .

Results of these tests shall be submitted to the Ohio EPA Northeast District Office within 30 days following completion of the test(s).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0278080634 Emissions Unit ID: P002 Issuance type: Title V Draft 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. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None