State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

04/18/03

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

03-70-01-0004
MedCentral Health System
Barry J. Mishey
335 Glessner Avenue
Mansfield, OH 44903

Dear Barry J. Mishey:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact Northwest District Office.

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Northwest District Office
File, DAPC PMU

State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **04/18/03**	Effective Date: **05/08/03**	Expiration Date: **05/08/03**

This document constitutes issuance of a Title V permit for Facility ID: 03-70-01-0004 to:
MedCentral Health System
335 Glessner Avenue
Mansfield, OH 44903

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

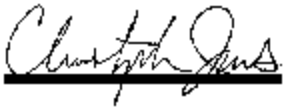
B001 (25.5 MMBTU/hr gas/oil fired boiler) Natural gas/oil fired backup boiler	B003 (25.6 MMBTU/hour gas/oil fired boiler) Natural gas/oil fired backup boiler	Medical Incinerator
B002 (25.5 MMBTU/hr gas/oil fired boiler) Natural gas/oil fired backup boiler	N004 (Infectious Waste Incinerator)	

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419) 352-8461

OHIO ENVIRONMENTAL PROTECTION AGENCY



Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

i. The date, place (as defined in the permit), and time of sampling or measurements.
ii. The date(s) analyses were performed.
iii. The company or entity that performed the analyses.
iv. The analytical techniques or methods used.
v. The results of such analyses.
vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c. The permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

ii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) with respect to emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

(a) Written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations ; (ii) the probable cause of such deviations; and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Part III of this Title V permit, the written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters. In identifying each deviation,

the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations. See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) ,(ii) and (iii))

(b) Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the deviation reporting requirements for this Title V permit, written reports that identify each malfunction that occurred during each calendar quarter shall be submitted, at a minimum, quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year, and shall cover the previous calendar quarters.

In identifying each deviation caused by a malfunction, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Also, if a deviation caused by a malfunction is identified in a written report submitted pursuant to paragraph (a) above, a separate report is not required for that malfunction pursuant to this paragraph. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing, at a minimum, on a quarterly basis.

Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation, operational restriction, and control device operating parameter limitation shall be reported in the same manner as described above for malfunctions. These written reports for malfunctions (and scheduled maintenance projects, if appropriate) shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(iii))

iii. **For monitoring, record keeping, and reporting requirements:**
Written reports that identify any deviations from the federally enforceable monitoring, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year, for the previous six calendar months. In

identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, record keeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no deviations occurred during that period.
(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions unit(s) or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iii))

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.
(Authority for term: OAC rule 3745-77-07(A)(4))

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Authority for term: OAC rule 3745-77-07(A)(7))

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.
(b) The permittee's current compliance status.
(c) Whether compliance was continuous or intermittent.
(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met.

This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.
(Authority for term: OAC rule 3745-77-07(G))

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For purposes of clarification, the permittee can refer to Engineering Guide #63 that is available in the STARSHIP software package.)
(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the

permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.
(This term is provided for informational purposes only.)

18. Insignificant Activities

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.
(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.
(Authority for term: OAC rule 3745-77-07(A)(1))

B. *State Only Enforceable Section*

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31

of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

2. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

5. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

6. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

Z001 Boiler Room Cold Cleaner;
Z002 Truck Traffic (Non Passenger Vehicle);
Z003 Paint Shop;
Z004 Carpenter Shop;
Z005 Radiology Lab;
Z006 Ethylene Oxide Sterilizer;
Z007 Pharmacy Lab Hoods;
Z008 CVPS Laboratory Hoods;
Z009 Satellite Pharmacy Hoods;
Z010 Microbiology Fume Hood;
Z011 1000-Gallon Diesel Fuel Storage Tank;
Z012 200 KW Generator (Crestline);
Z013 1000 KW Generator (Mansfield);
Z014 1000 KW Generator (Mansfield);
Z015 1000 KW Generator (Mansfield);
Z016 Alcohol Storage Room;
Z017 Print Shop;
Z018 10,000-Gallon Fuel Oil Storage Tank; and
Z019 20,000-Gallon Fuel Oil Storage Tank.

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.

B. State Only Enforceable Section (continued)

The following insignificant emissions units are located at this facility:

Z001 Boiler Room Cold Cleaner;
Z002 Truck Traffic (Non Passenger Vehicle);
Z003 Paint Shop;
Z004 Carpenter Shop;
Z005 Radiology Lab;
Z006 Ethylene Oxide Sterilizer;
Z007 Pharmacy Lab Hoods;
Z008 CVPS Laboratory Hoods;
Z009 Satellite Pharmacy Hoods;
Z010 Microbiology Fume Hood;
Z011 1000-Gallon Diesel Fuel Storage Tank;
Z012 200 KW Generator (Crestline);
Z013 1000 KW Generator (Mansfield);
Z014 1000 KW Generator (Mansfield);
Z015 1000 KW Generator (Mansfield);
Z016 Alcohol Storage Room;
Z017 Print Shop;
Z018 10,000-Gallon Fuel Oil Storage Tank; and
Z019 20,000-Gallon Fuel Oil Storage Tank;
Z020 1000 KW generator #4 (Mansfield); and
Z021 8000-Gallon Oil Diesel Supreme Tank.

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.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.5 MMBTU/hr gas/oil fired boiler (B001)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.5 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 1)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs SO2/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 lbs/mmBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

V. Testing Requirements (continued)

1.c Emission Limitation: 1.6 pounds of sulfur dioxide/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.5 MMBTU/hr gas/oil fired boiler (B002)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.5 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 2)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs SO2/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 lbs/mmBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

V. Testing Requirements (continued)

1.c Emission Limitation: 1.6 pounds of sulfur dioxide/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.6 MMBTU/hour gas/oil fired boiler (B003)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.6 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 3)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb of PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	See Section A.I.2.a.
	OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.b.
	OAC rule 3745-31-05 (PTI #03-2788)	0.94 ton of PE/yr 0.24 lb of sulfur dioxide (SO2)/mmBtu 9.4 tons SO2/yr See A.II.3. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B), 3745-21-08(B) and 3745-23-06(B).

2. Additional Terms and Conditions

2.a The SO2 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)

2.b The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install # 03-2788.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.24 lb/mmBtu of actual heat input.

3. The oil burned in this emissions unit shall not exceed a sulfur content of 0.2%.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

3. The permittee shall record and maintain each month the following information for this emissions unit:

3.a the total quantity of no. 2 fuel oil burned, in gallons;

3.b the total quantity of natural gas burned, in cubic feet;

III. Monitoring and/or Record Keeping Requirements (continued)

3.c the total PE rate, in tons, calculated as follows:

i. the monthly PE resulting from the combustion of oil:

Eo = efo x to x 1ton/2000 lbs.

where:

Eo = PE, in tons per month

efo = an emission factor of 2.0 lbs of PE/1000 gallons of no. 2 fuel oil, based on AP-42 section 1.3-12, revised 9/98, Table 1.3-1

to = total amount of no. 2 fuel oil combusted (gallons/month)

ii. the monthly PE resulting from the combustion of natural gas:

Eg = efg x tg x 1 ton/2000 lbs

where:

Eg = PE, in tons per month

efg = an emission factor of 1.9 lbs of PE (filtrable)/mmcu.ft., based upon AP-42, section 1.4-6, Table 1.4-2, revised 7/98

tg = total amount of natural gas combusted (mmcu.ft./month)

iii. the total PE (A.III.3.c.i + A.III.3.c.ii), in tons.

III. Monitoring and/or Record Keeping Requirements (continued)

3.d the total SO2 emission rate, in tons, calculated as follows:

i. the monthly SO2 emissions resulting from the combustion of oil:

Eso = efso x tso x 1 ton/2000 lbs.

where:

Eso = SO2 emissions, in tons per month

efso = an emission factor of 142 lbs of SO2/1000 gallons of no. 2 fuel oil, based on AP-42 section 1.3-12, 9/98, Table 1.3-1, where S is the weight % sulfur in the oil

tso = total amount of oil combusted during the month (gallons/month)

ii. the monthly SO2 emissions resulting from the combustion of natural gas:

Esn = efsn x tsn x 1 ton/2000 lbs.

where:

Esn = SO2 emissions, in tons per month

efsn = an emission factor of 0.6 lb of SO2/mmcu.ft., based on AP-42 section 1.4-6, revised 7/98, Table 1.4-2

tsn = total amount of natural gas combusted (mmcu.ft/month)

iii. the total SO2 emissions (A.III.3.d.i + A.III.3.d.ii), in tons.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above, and/or of the allowable oil sulfur content of 0.2%. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

3. The permittee shall submit annual reports that summarize the actual annual PE and SO2 emissions for this emissions unit. The reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

1.b Emission Limitation:
0.020 lb of PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.6 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs of PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.6 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

1.c Emission Limitation:
0.94 ton of PE/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation through the record keeping requirements in section A.III.3 of this permit and shall be the summation of the 12 monthly PE rates for the calendar year.

1.d Emission Limitation: 0.24 pound of SO2/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

1.e Emission Limitation:
9.4 tons of SO2/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation through the record keeping requirements in section A.III.3 of this permit and shall be the summation of the 12 monthly SO2 emission rates for the calendar year.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Infectious Waste Incinerator (N004)

Activity Description: Medical Incinerator

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
600 lbs/hr, hospital medical and infectious waste incinerator, with dry scrubber	40 CFR, Part 62, Subpart HHH (Federal Plan requirements for Hospital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	0.015 gr particulate emissions (PE)/dscf 55.0 ppmv sulfur dioxide (SO2) 250.0 ppmv nitrogen oxides (NOx) 40.0 ppmv carbon monoxide (CO) dioxins/furans: 55 gr/billion dscf or 1.0 gr/billion dscf TEQ 100 ppmv hydrogen chloride (HCl) or 93% reduction 0.52 gr lead (Pb)/thousand dscf or 70% reduction 0.07 gr cadmium (Cd)/thousand dscf or 65% reduction 0.24 gr mercury (Hg)/thousand dscf or 85% reduction The opacity limitation specified by this rule is less stringent than the opacity limitation specified by OAC rule 3745-75-02 (all units corrected to 7% oxygen, dry basis at standard conditions)

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-75-02	0.10 lb PE/100 lbs waste charged 4.0 lbs HCL/hr or 90% reduction 0.0042 lb arsenic (As)/hr 0.010 lb Cd/hr 0.0015 lb chromium (Cr)/hr 0.068 lb Pb/hr 0.011 lb Hg/hr 0.0076 lb nickle (Ni)/hr The CO emission limitation specified by this rule is less stringent than the CO emission limitation specified by OAC rule 40 CFR, Part 62, Subpart HHH. The hourly Be emission limitation specified by this rule is less stringent than the hourly Be emission limitation established pursuant to OAC rule 3745-31-05. Visible PE shall not exceed 5 percent opacity, as a 6-minute average, except for a 1-minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05 (PTI 03-6870)	0.72 lb PE/hr 3.15 tons PE/yr 0.0013 lb Be/hr 0.0056 ton/yr Be 17.52 tons HCl/yr 0.044 ton Cd/yr 0.048 ton Hg/yr 0.30 ton Pb/yr 0.033 ton Ni/yr 0.0066 ton Cr/yr 0.018 ton Ar/yr The requirements of this rule also include compliance with the requirements of 40 CFR, Part 62, Subpart HHH, and OAC rule 3745-75-02.
	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 visible PE specified by this rule is less stringent than the visible PE specified by OAC rule 3745-75-02.
	40 CFR Part 60, Subpart Ce	The emission limitations specified by 40 CFR, Part 60, Subpart Ce are equal to or less stringent than the emission limitations established pursuant to 40 CFR, Part 62, Subpart HHH.
	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

2.a [40 CFR Part 62.14413]
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.

II. Operational Restrictions

1. 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 non-combustible items, to carbonized or mineralized ash. Any ash that does not meet this criterion shall be reincinerated.

2. The primary combustion chamber for this incinerator shall be maintained so that the exit gas is at a minimum temperature of 1200 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.

3. 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.

4. 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.

5. Infectious waste shall not be loaded into the primary combustion chamber of this incinerator until the exit gas temperature has reached 1200 degrees Fahrenheit.

6. 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.

7. 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.

8. This incinerator shall be equipped with an air pollution control system (a dry scrubber followed by a fabric filter) 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 emissions unit is in operation. The implementation of the control system shall be consistent with the timeline provided in 40 CFR part 62.14470(b)(2)(v).

The hourly applicable parameters required pursuant to 40 CFR, Part 62.14460 shall be maintained at or above the level established during the initial performance testing. These parameters shall include, but not limited to, the following:

a. The HMIWI maximum hourly charge rate, in pounds.

b. The fabric filter maximum inlet temperatures, in degrees Fahrenheit.

c. The minimum hourly dioxin/furan sorbent rate, in pounds.

d. The minimum hourly Hg sorbent rate, in pounds.

e. The minimum hourly HCl sorbent rate, in pounds.

f. The minimum secondary chamber temperature, in degrees Fahrenheit.

II. Operational Restrictions (continued)

9. This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.

10. Under no circumstances shall radiological or radioactive waste be charged into this unit.

11. The permittee shall not intentionally dispose of the following items by burning in the incinerator:
a. visible globules of mercury;
b. nickel-cadmium batteries; and
c. switches, thermometers, batteries, and other devices containing mercury.

12. This incinerator shall be operated only by properly trained personnel. A minimum of twenty four 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, Ohio EPA, or a corporate training program approved by the 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.

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 (afterburner) exhaust gas 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.

2. 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.

III. Monitoring and/or Record Keeping Requirements (continued)

3. Any unit that is equipped with a bypass stack shall be equipped with a device to continuously monitor and record the temperature in the bypass stack.

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. [40 CFR Part 62.14424(a)]

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 an HMIWI;

c. the procedures for receiving, handling, and charging waste;

d. the procedures for startup, shutdown, and malfunction;

e. the procedures for maintaining proper combustion air supply levels;

f. the procedures for operating the HMIWI and associated air pollution control systems within the standards established under 40 CFR Part 62, Subpart HHH;

g. the procedures for responding to a malfunction or conditions that may lead to malfunction;

h. the procedures for monitoring HMIWI emissions;

i. the reporting and record keeping procedures; and

j. the 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 or its delegated enforcement agent upon request.

6. [40 CFR Part 62.14430 and 62.14431]

The permittee shall develope 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, it 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.

III. Monitoring and/or Record Keeping Requirements (continued)

7. [40 CFR Part 62.14454(a) and (c)]

a. The permittee shall calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed section A.II.8 such that these devices (or methods) measure and record values for the operating parameters at the frequencies indicated in section A.III.8 at all times except during periods of startup and shutdown. For the charge rate, the device must measure and record the date, time, and weight of each charge fed to the HMIWI. This must be done automatically, meaning that the only intervention from an operator during the process would be to load the charge onto the weighing device. For batch HMIWI, the maximum charge rate is measured on a daily basis (the amount of waste charged to the unit each day).

b. The permittee shall calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack, including the date, time, and duration of such use.

c. If the HMIWI uses air pollution controls other than a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet scrubber to comply with the emission limits identified under 40 CFR Part 62.1441, the permittee must install, calibrate (to manufactures' specifications), maintain, and operate the equipment necessary to monitor the site specific operating parameters developed pursuant to 40 CFR Part 62.14453(b).

8. [40 CFR Part 62.14460(a) through (c)]

The permittee shall maintain records of the following information:

a. the calendar date of each record;

b. records of the following data:

i. the concentrations of any pollutant listed in Table 1 of 40 CFR Part 62, Subpart HHH (particulate matter, carbon monoxide, dioxins/furans, hydrogen chloride, sulfur dioxide, nitrogen oxides, lead, cadmium, and mercury) and/or measurements of opacity;

ii. the HMIWI charge dates, times, weights and hourly charge rates;

iii. fabric filter inlet temperatures during each minute of operation, as applicable;

iv. the amount and type of Hg sorbent used during each hour of operation, as applicable;

v. the amount and type of HCl sorbent used during each hour of operation, as applicable;

vi. the secondary chamber temperatures recorded during each minute of operation;

vii. the 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, as applicable;

viii. the records indicating use of the bypass stack, including dates, times, and durations; and

ix. if you are complying by monitoring site-specific operating parameters under 40 CFR 62.14453(b), you must monitor all operating data collected.

c. identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(i) through (b)(ix) of 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 corretive actions taken;

III. Monitoring and/or Record Keeping Requirements (continued)

d. the identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken;

e. the identification of calendar days for which data on emission rates or operating parameters specified under A.III.8(b)(i) through (b)(ix) of this permit exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken;

f. 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;

g. the records showing the names of HMIWI operators who have completed review of the documentation in 40 CFR Part 62.14424 as required by 40 CFR Part 62.14425, including the date of the initial review and all subsequent annual reviews;

h. the 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;

i. the records showing the names of the HMIWI operators who have met the criteria for qualification under 40 CFR Part 62.14423 and the dates of their qualification; and

j. the records of calibration of any monitoring devices as required under 40 CFR Part 62.14454.

9. [40 CFR Part 62.14461]

The permittee must maintain the records specified in section A.III.8 for a period of at least 5 years.

10. [40 CFR Part 62.14462]

The permittee must maintain all records specified in section A.III.8 on site in either paper copy or computer-readable format, unless an alternative format is approved by the Director.

11. The permittee shall identify each calendar day for which data on emission rates or operating parameters specified above 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.

12. 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.

IV. Reporting Requirements

1. [OAC rule 3745-75-05(C)]
On a quarterly basis, reports shall be submitted to the Northwest District Office of the Ohio EPA documenting all instances of values in excess of the limitations specified in OAC rule 3745-75-02. These quarterly reports shall be submitted by February 1, May 1, August 1, and November 1 of each year and shall cover the data obtained during the previous calendar quarters.

IV. Reporting Requirements (continued)

2. [40 CFR Part 62.14463(a) through (k)]
The permittee must report the following to the Northwest District Office of the Ohio EPA:

a. the initial performance test data as recorded under 40 CFR Part 62.14450(a) or 40 CFR Part 62.14451(a) (whichever applies);

b. the values for the site-specific operating parameters established pursuant to 40 CFR Part 62.14453, as applicable;

c. the waste management plan as specified in 40 CFR Part 62.14431;

d. 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, as applicable;

e. 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;

f. any information recorded under 40 CFR Part 62.14460(c) through (e) for the calendar year being reported;

g. any information recorded under 40 CFR Part 62.14460(c) through (e) 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;

h. the results of each performance test conducted during the reporting period;

i. if no exceedances or malfunctions occurred during the calendar year being reported, a statement that no exceedances occurred during the reporting period;

j. any use of the bypass stack, duration of such use, reason for malfunction, and corrective action taken; and

k. records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the time frame established by the EPA Administrator (or delegated enforcement authority).

3. [40 CFR Part 62.14464(a) and 62.14432]
The information specified in 40 CFR Part 62.14463(a) through (c) must be submitted no later than 60 days following the initial performance test.

4. [40 CFR Part 62.14464(b)]
A annual report must be submitted to the Northwest District Office of the Ohio EPA no more than 1 year following the submission of the information in section A.IV.2 of this section and subsequent reports no more than 1 year following the previous report (once the unit is subject to permitting requirements under title V of the Clean Air Act, you must submit these reports semiannually). The annual report must include the information specified in section A.IV.2, as applicable.

5. [40 CFR Part 62.14464(c)]
Semiannual reports containing any information recorded under 40 CFR Part 62.14460(c) through (e) must be submitted no later than 60 days following the end of the semiannual reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (a) of this section. Subsequent reports must be submitted no later than 6 calendar months following the previous report.

6. [40 CFR Part 62.14465]
All reports must be signed by the facilities manager (defined in 40 CFR Part 62.14490).

IV. Reporting Requirements (continued)

7. The permittee shall submit semiannual 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.

8. 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.

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

9. The permittee shall submit quarterly deviation (excursion) reports that identify the following information for each period during which the operating parameters specified in section A.II.8 were not kept at the required levels established during the most recent emission testing that demonstrated the emissions unit was in compliance:

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.

V. Testing Requirements

1. 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) [completed].

b. The permittee shall conduct additional emission testing for this emissions unit in accordance with the following requirements:

i. 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

ii. 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.

V. Testing Requirements (continued)

c. [40 CFR Part 62.14452]

The permittee shall use the following test methods and procedures to conduct performance tests to determine compliance with the emission limits:

i. all performance tests shall consist of a minimum of three test runs conducted under representative operating conditions;

ii. the minimum sample time shall be 1 hour per test run unless otherwise indicated in this section;

iii. 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;

iv. 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;

v. the permittee shall adjust pollutant concentrations to 7 percent oxygen using the following equation:

Cadj = Cmeas (20.9-7)(20.9-%O2) (Eq. 1)

Where:

Cadj = pollutant concentration adjusted to 7 percent oxygen

Cmeas = pollutant concentration measured on a dry basis at standard conditions
(20.9-7) = 20.9 percent oxygen -- 7 percent oxygen (defined oxygen correction basis)

20.9 = oxygen concentration in air, percent

%O2 = oxygen concentration measured on a dry basis at standard conditions, percent

vi. the permittee shall use EPA Reference Methods 1 - 5 or 29 of 40 CFR, Part 60, Appendix A to measure PE;

vii. the permittee shall use EPA Reference Method 9 of 40 CFR, Part 60, Appendix A to measure stack opacity;

viii. the permittee shall use EPA Reference Method 10 or 10B of 40 CFR, Part 60, Appendix A to measure the CO emissions;

ix. 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. If the permittee has selected the toxic equivalency standards for dioxin/furans under 40 CFR, Part 62.14411, the permittee shall use the following procedures to determine compliance:

(a) measure the concentration of each dioxin/furan tetra-through octa-congener emitted using EPA Reference Method 23;

(b) for each dioxin/furan congener measured in accordance with section A.V.d.ix(a), multiply the congener concentration by its corresponding toxic equivalency factor specified in Table 2 of 40 CFR, Part 62.14452; and

(c) sum the products calculated in accordance with section A.V.d.ix(b) to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.);

V. Testing Requirements (continued)

x. the permittee shall use EPA Reference Method 26 of 40 CFR, Part 60, Appendix A to measure HCl emissions. If the permittee has selected the percentage reduction standards for HCl under 40 CFR, Part 62.14411, compute the percentage reduction in HCl emissions (%RHCl) using the following formula:

(%RHCL) = ((Ei - Eo)/Ei) x 100 (Eq. 2)

Where:

%RHCl = percentage reduction of HCl emissions achieved

Ei = HCl emission concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis at standard conditions)

Eo = HCl emission concentration measured at the control device outlet, corrected to 7 percent oxygen (dry basis at standard conditions));

xi. the permittee shall use EPA Reference Method 29 of 40 CFR, Part 60, Appendix A to measure Be, Cr, Cd, As, Pb, Cd, and Hg emissions. If the permittee has selected the percentage reduction standards for metals under 40 CFR, Part 62.14411, compute the percentage reduction in emissions (%Rmetal) using the following formula:

(%Rmetal) = ((Ei - Eo)/Ei) x 100 (Eq. 3)

Where:

%Rmetal = percentage reduction of metal emission (Be, Cr, Cd, As, Pb, Cd, or Hg) achieved

Ei = metal emission concentration (Be, Cr, Cd, As, Pb, Cd, or Hg) measured at the control device inlet, corrected to 7 percent oxygen (dry basis at standard conditions)

Eo = metal emission concentration (Be, Cr, Cd, As, Pb, Cd, or Hg) measured at the control device outlet, corrected to 7 percent oxygen (dry basis at standard conditions));

xii. use of the bypass stack during a performance test will invalidate the performance test; and

xiii. the tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

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).

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.

A comprehensive written report on the results of the emissions test(s) shall be submitted to the Ohio EPA Northeast 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 Northeast District Office.

V. Testing Requirements (continued)

2. 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):

2.a Emission Limitations:
0.015 grain PE/dscf
0.10 lb PE/100 lbs charged
0.72 lb PE/hr, 3.15 tons PE/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable grain PE/dscf limitation, the lb PE/100 lbs charged limitation and the hourly allowable PE limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.b Emission Limitation:
55.0 ppmv SO2

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the allowable ppmv SO2 limitation based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 6.

2.c Emission Limitation:
250.0 ppmv NOx

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the allowable ppmv NOx limitation based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7.

2.d Emission Limitation:
40.0 ppmv CO

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable ppmv CO limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 10 or 10B and the procedures specified in sections A.V.1 and A.V.2 of this permit.

2.e Emission Limitation:
dioxins/furans: 55 gr/billion dscf or 1.0 gr/billion dscf TEQ

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable grain dioxins and furans/billion dscf limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 23 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

2.f Emission Limitations:
100 ppmv HCl or 93% reduction
4.0 lbs HCl/hr or 90% reduction

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable ppmv HCl, lbs HCl/hr or the % reduction requirements based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 26 or 26A and the procedures specified in sections A.V.1 and A.V.2 of this permit.

V. Testing Requirements (continued)

2.g Emission Limitations:
0.52 gr Pb/thousand dscf or 70% reduction
0.068 lb Pb/hr, 0.30 ton Pb/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Pb/thousand dscf, lbs Pb/hr or the Pb % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Pb limitation was developed by multiplying the hourly Pb emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.h Emission Limitations:
0.07 gr Cd/thousand dscf or 65% reduction
0.01 lb Cd/hr, 0.044 ton Cd/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Cd/thousand dscf, lbs Cd/hr or the Cd % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Cd limitation was developed by multiplying the hourly Cd emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.i Emission Limitations:
0.24 gr Hg/thousand dscf or 85% reduction
0.011 lb Hg/hr, 0.048 ton Hg/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Hg/thousand dscf, lbs Hg/hr or the Hg % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the testing requirements, methods and procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Hg limitation was developed by multiplying the hourly Hg emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.j Emission Limitation:
0.0042 lb As/hr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable As emission limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

2.k Emission Limitation:
Visible PE shall not exceed 5 percent opacity, as a 6-minute average, except for a 1 minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.

Applicable Compliance Method:
The permittee shall determine compliance with the opacity restriction above in accordance with 40 CFR, Part 60, Appendix A, Method 9.

V. Testing Requirements (continued)

2.l Emission Limitations:
0.0013 lb Be/hr and 0.0056 ton Be/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Be limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Be limitation was developed by multiplying the hourly Be emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.m Emission Limitations:
0.0015 lb Cr/hr and 0.0066 ton Cr/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Cr limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Cr limitation was developed by multiplying the hourly Cr emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.n Emission Limitations:
0.0076 lb Ni/hr and 0.033 ton Ni/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Ni limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Ni limitation was developed by multiplying the hourly Ni emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

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.

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

Z001 Boiler Room Cold Cleaner;
Z002 Truck Traffic (Non Passenger Vehicle);
Z003 Paint Shop;
Z004 Carpenter Shop;
Z005 Radiology Lab;
Z006 Ethylene Oxide Sterilizer;
Z007 Pharmacy Lab Hoods;
Z008 CVPS Laboratory Hoods;
Z009 Satellite Pharmacy Hoods;
Z010 Microbiology Fume Hood;
Z011 1000-Gallon Diesel Fuel Storage Tank;
Z012 200 KW Generator (Crestline);
Z013 1000 KW Generator (Mansfield);
Z014 1000 KW Generator (Mansfield);
Z015 1000 KW Generator (Mansfield);
Z016 Alcohol Storage Room;
Z017 Print Shop;
Z018 10,000-Gallon Fuel Oil Storage Tank; and
Z019 20,000-Gallon Fuel Oil Storage Tank.

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.

B. State Only Enforceable Section (continued)

The following insignificant emissions units are located at this facility:

Z001 Boiler Room Cold Cleaner;
Z002 Truck Traffic (Non Passenger Vehicle);
Z003 Paint Shop;
Z004 Carpenter Shop;
Z005 Radiology Lab;
Z006 Ethylene Oxide Sterilizer;
Z007 Pharmacy Lab Hoods;
Z008 CVPS Laboratory Hoods;
Z009 Satellite Pharmacy Hoods;
Z010 Microbiology Fume Hood;
Z011 1000-Gallon Diesel Fuel Storage Tank;
Z012 200 KW Generator (Crestline);
Z013 1000 KW Generator (Mansfield);
Z014 1000 KW Generator (Mansfield);
Z015 1000 KW Generator (Mansfield);
Z016 Alcohol Storage Room;
Z017 Print Shop;
Z018 10,000-Gallon Fuel Oil Storage Tank; and
Z019 20,000-Gallon Fuel Oil Storage Tank;
Z020 1000 KW generator #4 (Mansfield); and
Z021 8000-Gallon Oil Diesel Supreme Tank.

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.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.5 MMBTU/hr gas/oil fired boiler (B001)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.5 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 1)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs SO2/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 lbs/mmBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

V. Testing Requirements (continued)

1.c Emission Limitation: 1.6 pounds of sulfur dioxide/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.5 MMBTU/hr gas/oil fired boiler (B002)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.5 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 2)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	1.6 lbs SO2/mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.6 lbs/mmBtu of actual heat input.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

III. Monitoring and/or Record Keeping Requirements (continued)

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.5 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

V. Testing Requirements (continued)

1.c Emission Limitation: 1.6 pounds of sulfur dioxide/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: 25.6 MMBTU/hour gas/oil fired boiler (B003)

Activity Description: Natural gas/oil fired backup boiler

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
25.6 mmBtu/hr, natural gas and/or no. 2 fuel oil-fired boiler (Boiler No. 3)	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(B)	0.020 lb of PE/mmBtu of actual heat input
	OAC rule 3745-18-06(D)	See Section A.I.2.a.
	OAC rules 3745-21-08(B) and 3745-23-06(B)	See A.I.2.b.
	OAC rule 3745-31-05 (PTI #03-2788)	0.94 ton of PE/yr 0.24 lb of sulfur dioxide (SO2)/mmBtu 9.4 tons SO2/yr See A.II.3. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B), 3745-21-08(B) and 3745-23-06(B).

2. Additional Terms and Conditions

2.a The SO2 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)

2.b The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install # 03-2788.

II. Operational Restrictions

1. The permittee shall burn only natural gas and/or no. 2 fuel oil in this emissions unit.

2. The quality of oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.24 lb/mmBtu of actual heat input.

3. The oil burned in this emissions unit shall not exceed a sulfur content of 0.2%.

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas and/or no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emissions rate (in lbs/mmBtu). (The sulfur dioxide emissions rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

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 40 CFR, Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

3. The permittee shall record and maintain each month the following information for this emissions unit:

3.a the total quantity of no. 2 fuel oil burned, in gallons;

3.b the total quantity of natural gas burned, in cubic feet;

III. Monitoring and/or Record Keeping Requirements (continued)

3.c the total PE rate, in tons, calculated as follows:

i. the monthly PE resulting from the combustion of oil:

Eo = efo x to x 1ton/2000 lbs.

where:

Eo = PE, in tons per month

efo = an emission factor of 2.0 lbs of PE/1000 gallons of no. 2 fuel oil, based on AP-42 section 1.3-12, revised 9/98, Table 1.3-1

to = total amount of no. 2 fuel oil combusted (gallons/month)

ii. the monthly PE resulting from the combustion of natural gas:

Eg = efg x tg x 1 ton/2000 lbs

where:

Eg = PE, in tons per month

efg = an emission factor of 1.9 lbs of PE (filtrable)/mmcu.ft., based upon AP-42, section 1.4-6, Table 1.4-2, revised 7/98

tg = total amount of natural gas combusted (mmcu.ft./month)

iii. the total PE (A.III.3.c.i + A.III.3.c.ii), in tons.

III. Monitoring and/or Record Keeping Requirements (continued)

3.d the total SO2 emission rate, in tons, calculated as follows:

i. the monthly SO2 emissions resulting from the combustion of oil:

Eso = efso x tso x 1 ton/2000 lbs.

where:

Eso = SO2 emissions, in tons per month

efso = an emission factor of 142 lbs of SO2/1000 gallons of no. 2 fuel oil, based on AP-42 section 1.3-12, 9/98, Table 1.3-1, where S is the weight % sulfur in the oil

tso = total amount of oil combusted during the month (gallons/month)

ii. the monthly SO2 emissions resulting from the combustion of natural gas:

Esn = efsn x tsn x 1 ton/2000 lbs.

where:

Esn = SO2 emissions, in tons per month

efsn = an emission factor of 0.6 lb of SO2/mmcu.ft., based on AP-42 section 1.4-6, revised 7/98, Table 1.4-2

tsn = total amount of natural gas combusted (mmcu.ft/month)

iii. the total SO2 emissions (A.III.3.d.i + A.III.3.d.ii), in tons.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or no. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall notify the Ohio EPA Northwest District Office in writing of any record showing a deviation of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates from section A.III.2 above, and/or of the allowable oil sulfur content of 0.2%. The notification shall include a copy of such record and shall be sent to the Ohio EPA Northwest District Office within 45 days after the deviation occurs.

3. The permittee shall submit annual reports that summarize the actual annual PE and SO2 emissions for this emissions unit. The reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

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

1.a Emission Limitation:
Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

1.b Emission Limitation:
0.020 lb of PE/mmBtu of actual heat input

Applicable Compliance Method:
When firing natural gas, the permittee may determine compliance with this limitation by multiplying the maximum hourly natural gas consumption rate (mm cu. ft/hr) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 lbs PE (filterable)/mm cu. ft, and then dividing by the maximum heat input capacity of the boiler (25.6 mmBtu/hr).

When firing no. 2 fuel oil, the permittee may determine compliance by multiplying the maximum hourly fuel oil consumption rate (gallons/hr) by the emission factor from AP-42, Table 1.3-1 (revised 9/98) of 2.0 lbs of PE (filterable)/1000 gallons of oil used, and then dividing by the maximum heat input capacity of the boiler (25.6 mmBtu/hr).

If required, compliance with the PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(9).

1.c Emission Limitation:
0.94 ton of PE/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation through the record keeping requirements in section A.III.3 of this permit and shall be the summation of the 12 monthly PE rates for the calendar year.

1.d Emission Limitation: 0.24 pound of SO2/mmBtu of actual heat input

Applicable Compliance Method: When firing fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received meets the limitation.

When firing natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, compliance with the limitation above shall be determined in accordance with Methods 1 - 4 and 6 of 40 CFR, Part 60, Appendix A.

1.e Emission Limitation:
9.4 tons of SO2/yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation through the record keeping requirements in section A.III.3 of this permit and shall be the summation of the 12 monthly SO2 emission rates for the calendar year.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Infectious Waste Incinerator (N004)

Activity Description: Medical Incinerator

A. State and Federally Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
600 lbs/hr, hospital medical and infectious waste incinerator, with dry scrubber	40 CFR, Part 62, Subpart HHH (Federal Plan requirements for Hospital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	0.015 gr particulate emissions (PE)/dscf 55.0 ppmv sulfur dioxide (SO2) 250.0 ppmv nitrogen oxides (NOx) 40.0 ppmv carbon monoxide (CO) dioxins/furans: 55 gr/billion dscf or 1.0 gr/billion dscf TEQ 100 ppmv hydrogen chloride (HCl) or 93% reduction 0.52 gr lead (Pb)/thousand dscf or 70% reduction 0.07 gr cadmium (Cd)/thousand dscf or 65% reduction 0.24 gr mercury (Hg)/thousand dscf or 85% reduction The opacity limitation specified by this rule is less stringent than the opacity limitation specified by OAC rule 3745-75-02 (all units corrected to 7% oxygen, dry basis at standard conditions)

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-75-02	0.10 lb PE/100 lbs waste charged 4.0 lbs HCL/hr or 90% reduction 0.0042 lb arsenic (As)/hr 0.010 lb Cd/hr 0.0015 lb chromium (Cr)/hr 0.068 lb Pb/hr 0.011 lb Hg/hr 0.0076 lb nickle (Ni)/hr The CO emission limitation specified by this rule is less stringent than the CO emission limitation specified by OAC rule 40 CFR, Part 62, Subpart HHH. The hourly Be emission limitation specified by this rule is less stringent than the hourly Be emission limitation established pursuant to OAC rule 3745-31-05. Visible PE shall not exceed 5 percent opacity, as a 6-minute average, except for a 1-minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05 (PTI 03-6870)	0.72 lb PE/hr 3.15 tons PE/yr 0.0013 lb Be/hr 0.0056 ton/yr Be 17.52 tons HCl/yr 0.044 ton Cd/yr 0.048 ton Hg/yr 0.30 ton Pb/yr 0.033 ton Ni/yr 0.0066 ton Cr/yr 0.018 ton Ar/yr The requirements of this rule also include compliance with the requirements of 40 CFR, Part 62, Subpart HHH, and OAC rule 3745-75-02.
	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 visible PE specified by this rule is less stringent than the visible PE specified by OAC rule 3745-75-02.
	40 CFR Part 60, Subpart Ce	The emission limitations specified by 40 CFR, Part 60, Subpart Ce are equal to or less stringent than the emission limitations established pursuant to 40 CFR, Part 62, Subpart HHH.
	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

2.a [40 CFR Part 62.14413]
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.

II. Operational Restrictions

1. 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 non-combustible items, to carbonized or mineralized ash. Any ash that does not meet this criterion shall be reincinerated.

2. The primary combustion chamber for this incinerator shall be maintained so that the exit gas is at a minimum temperature of 1200 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.

3. 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.

4. 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.

5. Infectious waste shall not be loaded into the primary combustion chamber of this incinerator until the exit gas temperature has reached 1200 degrees Fahrenheit.

6. 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.

7. 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.

8. This incinerator shall be equipped with an air pollution control system (a dry scrubber followed by a fabric filter) 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 emissions unit is in operation. The implementation of the control system shall be consistent with the timeline provided in 40 CFR part 62.14470(b)(2)(v).

The hourly applicable parameters required pursuant to 40 CFR, Part 62.14460 shall be maintained at or above the level established during the initial performance testing. These parameters shall include, but not limited to, the following:

a. The HMIWI maximum hourly charge rate, in pounds.

b. The fabric filter maximum inlet temperatures, in degrees Fahrenheit.

c. The minimum hourly dioxin/furan sorbent rate, in pounds.

d. The minimum hourly Hg sorbent rate, in pounds.

e. The minimum hourly HCl sorbent rate, in pounds.

f. The minimum secondary chamber temperature, in degrees Fahrenheit.

II. Operational Restrictions (continued)

9. This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained to prevent the emission of objectionable odors.

10. Under no circumstances shall radiological or radioactive waste be charged into this unit.

11. The permittee shall not intentionally dispose of the following items by burning in the incinerator:
a. visible globules of mercury;
b. nickel-cadmium batteries; and
c. switches, thermometers, batteries, and other devices containing mercury.

12. This incinerator shall be operated only by properly trained personnel. A minimum of twenty four 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, Ohio EPA, or a corporate training program approved by the 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.

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 (afterburner) exhaust gas 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.

2. 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.

III. Monitoring and/or Record Keeping Requirements (continued)

3. Any unit that is equipped with a bypass stack shall be equipped with a device to continuously monitor and record the temperature in the bypass stack.

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. [40 CFR Part 62.14424(a)]

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 an HMIWI;

c. the procedures for receiving, handling, and charging waste;

d. the procedures for startup, shutdown, and malfunction;

e. the procedures for maintaining proper combustion air supply levels;

f. the procedures for operating the HMIWI and associated air pollution control systems within the standards established under 40 CFR Part 62, Subpart HHH;

g. the procedures for responding to a malfunction or conditions that may lead to malfunction;

h. the procedures for monitoring HMIWI emissions;

i. the reporting and record keeping procedures; and

j. the 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 or its delegated enforcement agent upon request.

6. [40 CFR Part 62.14430 and 62.14431]

The permittee shall develope 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, it 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.

III. Monitoring and/or Record Keeping Requirements (continued)

7. [40 CFR Part 62.14454(a) and (c)]

a. The permittee shall calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed section A.II.8 such that these devices (or methods) measure and record values for the operating parameters at the frequencies indicated in section A.III.8 at all times except during periods of startup and shutdown. For the charge rate, the device must measure and record the date, time, and weight of each charge fed to the HMIWI. This must be done automatically, meaning that the only intervention from an operator during the process would be to load the charge onto the weighing device. For batch HMIWI, the maximum charge rate is measured on a daily basis (the amount of waste charged to the unit each day).

b. The permittee shall calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack, including the date, time, and duration of such use.

c. If the HMIWI uses air pollution controls other than a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and a wet scrubber to comply with the emission limits identified under 40 CFR Part 62.1441, the permittee must install, calibrate (to manufactures' specifications), maintain, and operate the equipment necessary to monitor the site specific operating parameters developed pursuant to 40 CFR Part 62.14453(b).

8. [40 CFR Part 62.14460(a) through (c)]

The permittee shall maintain records of the following information:

a. the calendar date of each record;

b. records of the following data:

i. the concentrations of any pollutant listed in Table 1 of 40 CFR Part 62, Subpart HHH (particulate matter, carbon monoxide, dioxins/furans, hydrogen chloride, sulfur dioxide, nitrogen oxides, lead, cadmium, and mercury) and/or measurements of opacity;

ii. the HMIWI charge dates, times, weights and hourly charge rates;

iii. fabric filter inlet temperatures during each minute of operation, as applicable;

iv. the amount and type of Hg sorbent used during each hour of operation, as applicable;

v. the amount and type of HCl sorbent used during each hour of operation, as applicable;

vi. the secondary chamber temperatures recorded during each minute of operation;

vii. the 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, as applicable;

viii. the records indicating use of the bypass stack, including dates, times, and durations; and

ix. if you are complying by monitoring site-specific operating parameters under 40 CFR 62.14453(b), you must monitor all operating data collected.

c. identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(i) through (b)(ix) of 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 corretive actions taken;

III. Monitoring and/or Record Keeping Requirements (continued)

d. the identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken;

e. the identification of calendar days for which data on emission rates or operating parameters specified under A.III.8(b)(i) through (b)(ix) of this permit exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken;

f. 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;

g. the records showing the names of HMIWI operators who have completed review of the documentation in 40 CFR Part 62.14424 as required by 40 CFR Part 62.14425, including the date of the initial review and all subsequent annual reviews;

h. the 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;

i. the records showing the names of the HMIWI operators who have met the criteria for qualification under 40 CFR Part 62.14423 and the dates of their qualification; and

j. the records of calibration of any monitoring devices as required under 40 CFR Part 62.14454.

9. [40 CFR Part 62.14461]

The permittee must maintain the records specified in section A.III.8 for a period of at least 5 years.

10. [40 CFR Part 62.14462]

The permittee must maintain all records specified in section A.III.8 on site in either paper copy or computer-readable format, unless an alternative format is approved by the Director.

11. The permittee shall identify each calendar day for which data on emission rates or operating parameters specified above 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.

12. 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.

IV. Reporting Requirements

1. [OAC rule 3745-75-05(C)]
On a quarterly basis, reports shall be submitted to the Northwest District Office of the Ohio EPA documenting all instances of values in excess of the limitations specified in OAC rule 3745-75-02. These quarterly reports shall be submitted by February 1, May 1, August 1, and November 1 of each year and shall cover the data obtained during the previous calendar quarters.

IV. Reporting Requirements (continued)

2. [40 CFR Part 62.14463(a) through (k)]
The permittee must report the following to the Northwest District Office of the Ohio EPA:

a. the initial performance test data as recorded under 40 CFR Part 62.14450(a) or 40 CFR Part 62.14451(a) (whichever applies);

b. the values for the site-specific operating parameters established pursuant to 40 CFR Part 62.14453, as applicable;

c. the waste management plan as specified in 40 CFR Part 62.14431;

d. 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, as applicable;

e. 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;

f. any information recorded under 40 CFR Part 62.14460(c) through (e) for the calendar year being reported;

g. any information recorded under 40 CFR Part 62.14460(c) through (e) 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;

h. the results of each performance test conducted during the reporting period;

i. if no exceedances or malfunctions occurred during the calendar year being reported, a statement that no exceedances occurred during the reporting period;

j. any use of the bypass stack, duration of such use, reason for malfunction, and corrective action taken; and

k. records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the time frame established by the EPA Administrator (or delegated enforcement authority).

3. [40 CFR Part 62.14464(a) and 62.14432]
The information specified in 40 CFR Part 62.14463(a) through (c) must be submitted no later than 60 days following the initial performance test.

4. [40 CFR Part 62.14464(b)]
A annual report must be submitted to the Northwest District Office of the Ohio EPA no more than 1 year following the submission of the information in section A.IV.2 of this section and subsequent reports no more than 1 year following the previous report (once the unit is subject to permitting requirements under title V of the Clean Air Act, you must submit these reports semiannually). The annual report must include the information specified in section A.IV.2, as applicable.

5. [40 CFR Part 62.14464(c)]
Semiannual reports containing any information recorded under 40 CFR Part 62.14460(c) through (e) must be submitted no later than 60 days following the end of the semiannual reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (a) of this section. Subsequent reports must be submitted no later than 6 calendar months following the previous report.

6. [40 CFR Part 62.14465]
All reports must be signed by the facilities manager (defined in 40 CFR Part 62.14490).

IV. Reporting Requirements (continued)

7. The permittee shall submit semiannual 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.

8. 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.

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

9. The permittee shall submit quarterly deviation (excursion) reports that identify the following information for each period during which the operating parameters specified in section A.II.8 were not kept at the required levels established during the most recent emission testing that demonstrated the emissions unit was in compliance:

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.

V. Testing Requirements

1. 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) [completed].

b. The permittee shall conduct additional emission testing for this emissions unit in accordance with the following requirements:

i. 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

ii. 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.

V. Testing Requirements (continued)

c. [40 CFR Part 62.14452]

The permittee shall use the following test methods and procedures to conduct performance tests to determine compliance with the emission limits:

i. all performance tests shall consist of a minimum of three test runs conducted under representative operating conditions;

ii. the minimum sample time shall be 1 hour per test run unless otherwise indicated in this section;

iii. 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;

iv. 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;

v. the permittee shall adjust pollutant concentrations to 7 percent oxygen using the following equation:

Cadj = Cmeas (20.9-7)(20.9-%O2) (Eq. 1)

Where:

Cadj = pollutant concentration adjusted to 7 percent oxygen

Cmeas = pollutant concentration measured on a dry basis at standard conditions
(20.9-7) = 20.9 percent oxygen -- 7 percent oxygen (defined oxygen correction basis)

20.9 = oxygen concentration in air, percent

%O2 = oxygen concentration measured on a dry basis at standard conditions, percent

vi. the permittee shall use EPA Reference Methods 1 - 5 or 29 of 40 CFR, Part 60, Appendix A to measure PE;

vii. the permittee shall use EPA Reference Method 9 of 40 CFR, Part 60, Appendix A to measure stack opacity;

viii. the permittee shall use EPA Reference Method 10 or 10B of 40 CFR, Part 60, Appendix A to measure the CO emissions;

ix. 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. If the permittee has selected the toxic equivalency standards for dioxin/furans under 40 CFR, Part 62.14411, the permittee shall use the following procedures to determine compliance:

(a) measure the concentration of each dioxin/furan tetra-through octa-congener emitted using EPA Reference Method 23;

(b) for each dioxin/furan congener measured in accordance with section A.V.d.ix(a), multiply the congener concentration by its corresponding toxic equivalency factor specified in Table 2 of 40 CFR, Part 62.14452; and

(c) sum the products calculated in accordance with section A.V.d.ix(b) to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.);

V. Testing Requirements (continued)

x. the permittee shall use EPA Reference Method 26 of 40 CFR, Part 60, Appendix A to measure HCl emissions. If the permittee has selected the percentage reduction standards for HCl under 40 CFR, Part 62.14411, compute the percentage reduction in HCl emissions (%RHCl) using the following formula:

(%RHCL) = ((Ei - Eo)/Ei) x 100 (Eq. 2)

Where:

%RHCl = percentage reduction of HCl emissions achieved

Ei = HCl emission concentration measured at the control device inlet, corrected to 7 percent oxygen (dry basis at standard conditions)

Eo = HCl emission concentration measured at the control device outlet, corrected to 7 percent oxygen (dry basis at standard conditions));

xi. the permittee shall use EPA Reference Method 29 of 40 CFR, Part 60, Appendix A to measure Be, Cr, Cd, As, Pb, Cd, and Hg emissions. If the permittee has selected the percentage reduction standards for metals under 40 CFR, Part 62.14411, compute the percentage reduction in emissions (%Rmetal) using the following formula:

(%Rmetal) = ((Ei - Eo)/Ei) x 100 (Eq. 3)

Where:

%Rmetal = percentage reduction of metal emission (Be, Cr, Cd, As, Pb, Cd, or Hg) achieved

Ei = metal emission concentration (Be, Cr, Cd, As, Pb, Cd, or Hg) measured at the control device inlet, corrected to 7 percent oxygen (dry basis at standard conditions)

Eo = metal emission concentration (Be, Cr, Cd, As, Pb, Cd, or Hg) measured at the control device outlet, corrected to 7 percent oxygen (dry basis at standard conditions));

xii. use of the bypass stack during a performance test will invalidate the performance test; and

xiii. the tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

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).

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.

A comprehensive written report on the results of the emissions test(s) shall be submitted to the Ohio EPA Northeast 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 Northeast District Office.

V. Testing Requirements (continued)

2. 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):

2.a Emission Limitations:
0.015 grain PE/dscf
0.10 lb PE/100 lbs charged
0.72 lb PE/hr, 3.15 tons PE/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable grain PE/dscf limitation, the lb PE/100 lbs charged limitation and the hourly allowable PE limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual PE limitation was developed by multiplying the hourly PE limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.b Emission Limitation:
55.0 ppmv SO2

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the allowable ppmv SO2 limitation based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 6.

2.c Emission Limitation:
250.0 ppmv NOx

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the allowable ppmv NOx limitation based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and 7.

2.d Emission Limitation:
40.0 ppmv CO

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable ppmv CO limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Methods 10 or 10B and the procedures specified in sections A.V.1 and A.V.2 of this permit.

2.e Emission Limitation:
dioxins/furans: 55 gr/billion dscf or 1.0 gr/billion dscf TEQ

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable grain dioxins and furans/billion dscf limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 23 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

2.f Emission Limitations:
100 ppmv HCl or 93% reduction
4.0 lbs HCl/hr or 90% reduction

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable ppmv HCl, lbs HCl/hr or the % reduction requirements based upon the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 26 or 26A and the procedures specified in sections A.V.1 and A.V.2 of this permit.

V. Testing Requirements (continued)

2.g Emission Limitations:
0.52 gr Pb/thousand dscf or 70% reduction
0.068 lb Pb/hr, 0.30 ton Pb/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Pb/thousand dscf, lbs Pb/hr or the Pb % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Pb limitation was developed by multiplying the hourly Pb emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.h Emission Limitations:
0.07 gr Cd/thousand dscf or 65% reduction
0.01 lb Cd/hr, 0.044 ton Cd/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Cd/thousand dscf, lbs Cd/hr or the Cd % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Cd limitation was developed by multiplying the hourly Cd emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.i Emission Limitations:
0.24 gr Hg/thousand dscf or 85% reduction
0.011 lb Hg/hr, 0.048 ton Hg/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable gr Hg/thousand dscf, lbs Hg/hr or the Hg % reduction requirement based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29 and the testing requirements, methods and procedures specified in sections A.V.1 and A.V.2 of this permit.

The annual Hg limitation was developed by multiplying the hourly Hg emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.j Emission Limitation:
0.0042 lb As/hr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable As emission limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

2.k Emission Limitation:
Visible PE shall not exceed 5 percent opacity, as a 6-minute average, except for a 1 minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.

Applicable Compliance Method:
The permittee shall determine compliance with the opacity restriction above in accordance with 40 CFR, Part 60, Appendix A, Method 9.

V. Testing Requirements (continued)

2.l Emission Limitations:
0.0013 lb Be/hr and 0.0056 ton Be/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Be limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Be limitation was developed by multiplying the hourly Be emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.m Emission Limitations:
0.0015 lb Cr/hr and 0.0066 ton Cr/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Cr limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Cr limitation was developed by multiplying the hourly Cr emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

2.n Emission Limitations:
0.0076 lb Ni/hr and 0.033 ton Ni/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the allowable Ni limitation based upon the results of emission testing conducted in accordance with 40 CFR, Part 60, Appendix A, Method 29.

The annual Ni limitation was developed by multiplying the hourly Ni emission limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

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.

B. State Enforceable Section

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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