OhioEPA

State of Ohio Environmental Protection Agency

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P.O. Box 1049
Columbus, OH 43216-1049

02/27/03

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit
(TPV001)

01-42-01-0014
Knox Community Hospital
Barbara A Glancy Dir.
1330 Coshocton Road
Mount Vernon, OH 43050

Dear Barbara A Glancy:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Central District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

If you have any questions or comments concerning this draft Title V permit, please contact Central District Office.

Very truly yours,

Michael W. Ahern

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

cc: USEPA (electronically submitted)
File, DAPC PMU
Central District Office

State of Ohio Environmental Protection Agency

DRAFT TITLE V PERMIT

Issue Date: 02/27/03	Effective Date: To be entered upon final issuance	Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 01-42-01-0014 to:

Knox Community Hospital
1330 Coshocton Rd
Mount Vernon, OH 43050

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

N002 (N002)
Wet Scrubber

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:

Central District Office
3232 Alum Creek Drive
PO Box 1049
Columbus, OH 43216-1049
(614) 728-3778

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:

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

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: N002 (N002)

Activity Description: Wet Scrubber

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
Medium Hospital/Medical/Infectious Waste Incinerator, 275 lbs/hr batch charge equipped with a wet scrubber	40 CFR Part 62 Subpart HHH (Federal Implementation Plan requirements for Hopsital/Medical/Infectious Waste Incinerators (HMIWI), constructed on or before June 20, 1996)	Particulate emissions (PE): 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust gas Sulfur dioxide (SO2): 55.0 parts per million (ppm), by volume Nitrogen oxides (NOx): 250.0 ppm, by volume Carbon monoxide (CO): 40.0 ppm, by volume Dioxins/Furans (D/F): - 55 gr/billion dscf of total D/F or 1.0 gr/billion dscf of D/F Toxic Equivalency Factor (TEQ) Hydrogen chloride (HCl): 100 ppm, by volume or 93% reduction Lead (Pb): 0.52 gr/1000 dscf or 70% reduction Cadmium (Cd): 0.07 gr/1000 dscf or 85% reduction Mercury (Hg): 0.24 gr/1000 dscf or 85% reduction (All units corrected to 7% oxygen, dry basis at standard conditions)
	OAC rule 3745-75-02	Arsenic (As) and compounds: 0.0042 lb/hr Beryllium (Be) and compounds: 0.0076 lb/hr Chromium (Cr) and compounds: 0.0015 lb/hr Nickel (Ni) and compounds: 0.0076 lb/hr Visible PE shall not exceed 5 percent opacity, except for a 6-minute period in any continuous 60-minute period during which opacity shall not exceed 10 percent.
	OAC rule 3745-17-09(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 62, Subpart HHH.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-75-02.
	OAC rules 3745-75-02(B), (D), (E), (F)(3), F(5), and (F)(6)	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 62, Subpart HHH.

2. Additional Terms and Conditions

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

II. Operational Restrictions

1. The maximum daily operational hours for this emissions unit shall not exceed fourteen (14) hours.

2. The maximum charge rate for this emissions unit shall not exceed 275 lbs/hr.

II. Operational Restrictions (continued)

3. All incineration shall occur in a controlled air multi-chamber incinerator, or equivalent technology as approved by the director, which provides complete combustion of waste, excluding metallic items, to carbonized or mineralized ash. Any ash that does not meet the criteria shall be reincinerated.

4. The primary combustion chamber of this emissions unit shall be maintained so that the exit gas is a minimum temperature of one thousand two hundred (1200) degrees Fahrenheit.

5. The secondary combustion chamber of this emissions unit shall operate so that the gas exiting the secondary combustion chamber is a minimum of one thousand eight hundred (1800) degrees Fahrenheit.

6. The secondary combustion chamber of this emissions unit shall allow for a one-second retention time at one thousand eight hundred (1800) degrees Fahrenheit.

7. The emissions unit shall incorporate a lockout system which will prevent the ignition of waste until the exit gas temperature of the secondary chamber reaches one thousand eight hundred (1800) degrees Fahrenheit and which will prevent recharging until the combustion and burn-down cycles are complete.

8. The stack or stacks of this emissions unit shall be designed to minimize the impact of the emissions on employees, residents, patients, visitors, or nearby residences. The design of this emissions unit shall meet good engineering practices so as not to cause excessive concentrations of any air contaminant at any air intake for heating and cooling of any building, or at operable windows, or doors.

9. This emissions unit must be equipped with an air lock system to prevent opening the incinerator to the room environment. The volume of the loading systems shall be designed so as to prevent overcharging of the unit to assure complete combustion of waste.

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

11. Infectious waste that is also radioactive shall be managed in accordance with the applicable rules of the Ohio Department of Health and regulations of the United States Nuclear Regulatory Commission. Radioactive waste or infectious radioactive waste which has levels of radioactivity that require special treatment or disposal according to United States Nuclear Regulatory Commission and Ohio Department of Health requirements shall not be charged into this emissions unit.

12. The owner or operator of this emissions unit shall not intentionally dispose of the following items by burning in the incinerator:

a. visible globules of mercury;
b. nickel-cadmium batteries;
c. switches, thermometers, batteries, and other devices containing mercury; and
d. bags or other containers for infectious waste handling which contain cadmium, chromium, or lead as a pigmenting agent.

13. This emissions unit is to be operated only by properly trained personnel. A minimum of twenty four (24) hours of incinerator operation training shall be provided to each operator before he/she is allowed to operate the emissions unit. This may include, for each operator, the successful completion of the training course in the operation and maintenance of hospital medical waste incinerators developed by the Control Technology Center, U.S. EPA, courses or instructions provided by incinerator manufacturers, professional engineering organizations, colleges or universities, or Ohio EPA. A copy of all the training records for each operator shall be immediately available to the Ohio EPA personnel upon request.

The permittee shall have a fully trained and qualified HMIWI operator, either at the facility or able to be at the facility within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators. The HMIWI operator can obtain training and qualification through a State-approved program or a training program that meets requirements listed in 40 CFR Part 62, Subpart HHH.

14. The pressure drop across the wet scrubber or the horsepower or amperage to the wet scrubber for this emissions unit shall be maintained at a minimum level in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.

15. The scrubber liquid flow rate for this emissions unit shall be maintained at a minimum flow rate in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.

16. The scrubber pH for this emissions unit shall be maintained at a minimum pH in accordance with the minimum operating parameters established during the performance test to determine compliance with the emission limits.

17. The flue gas temperature for this emissions unit shall be maintained under a maximum temperature in accordance with the maximum operating parameters established during the performance test to determine compliance with the emission limits.

18. Use of a bypass stack (except during startup, shutdown, or malfunction) shall constitute a violation of the particulate, dioxin/furan, hydrogen chloride, lead, cadmium, and mercury emissions limits.

19. For units not equipped with a carbon monoxide monitor, operation of the emissions unit above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the carbon monoxide emission limit.

20. Operation of the emissions unit above the maximum charge rate, below the minimum secondary chamber temperature, and below the minimum scrubber liquor flow rate (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the dioxin/furan emission limit.

21. Operation of the emissions unit above the maximum charge rate and above the maximum flue gas temperature (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the mercury emission limit.

22. Operation of the emissions unit above the maximum charge rate and below the minimum scrubber liquor PH (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the hydrogen chloride emission limit.

23. Operation of the emissions unit above the maximum charge rate and below the minimum pressure drop across the wet scrubber or below the minimum horespower or amperage to the system (each measured on a three-hour rolling average) simultaneously shall constitute a violation of the particulate emission limit.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for each day.

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

2. The permittee shall maintain the following records at the facility:

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

The permittee shall keep the above information in a readily accessible location for all HMIWI operators. This information, along with records of training, shall be available for inspection by the Ohio EPA upon request. The permittee shall review the above information at least annually.

3. The permittee shall have a waste management plan. The waste management plan shall identify both the feasibility of, and the approach for, separating certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste. The waste management plan may address, but is not limited to, paper, cardboard, plastics, glass, battery, or metal recycling, or purchasing recycled or recyclable products. The waste management plan may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream. The waste management plan should identify, where possible, reasonably available additional waste management measures, taking into account the effectiveness of waste management measures already in place, the costs of additional measures, the emission reductions expected to be achieved, and any other potential environmental or energy impacts they might have. In developing the waste management plan, the permittee shall consider the American Hospital Association publication entitled "Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities." This publication (AHA Catalog No. 057007) is available for purchase from the American Hospital Association (AHA) Service, Inc., Post Office Box 92683, Chicago, Illinois 60675-2683.

4. The permittee shall have this emissions unit inspected annually using preventive maintenance procedures recommended by the equipment manufacturer. Each inspection shall include a written report identifying any needed repairs to the unit. If repairs are needed, the incinerator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit. At a minimum, the permittee shall do the following during the inspection:

a. inspect all burners, pilot assemblies, and pilot sensing devices for proper operation, and clean pilot flame sensor as necessary;
b. check for proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;
c. inspect hinges and door latches, and lubricate as necessary;
d. inspect dampers, fans, and blowers for proper operation;
e. inspect incinerator door and door gaskets for proper sealing;
f. inspect motors for proper operation;
g. inspect primary chamber refractory lining, and clean and repair/replace lining as necessary;
h. inspect incinerator shell for corrosion and/or hot spots;
i. inspect secondary/tertiary chamber and stack, and clean as necessary;
j. inspect mechanical loader, including limit switches, for proper operation, if applicable;
k. visually inspect waste bed (grates), and repair/ seal, as necessary;
l. for the burn cycle that follows the inspection, document that the emissions unit is operating properly and make any necessary adjustments;
m. inspect air pollution control device(s) for proper operation;
n. inspect waste heat boiler systems to ensure proper operation, if applicable;
o. inspect bypass stack components;
p. ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment; and
q. generally observe that the equipment is maintained in good operating condition.

The permittee shall complete any necessary repairs within 10 operating days of the inspection unless the permittee obtains written approval from the Ohio EPA establishing a different date when all necessary repairs shall be completed.

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

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

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

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

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

a. the pressure drop across the scrubber, in inches of water, or the horsepower or amperage to the wet scrubber on a once per minute basis;
b. the scrubber liquid flow rate, in gallons per minute, on a once per minute basis;
c. the pH of the scrubber liquid, on a once per minute basis; and
d. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

7. Radioactive waste shall not be charged to this emissions unit. The permittee shall operate and maintain equipment to continuously monitor the radioactivity of all waste prior to combustion. This monitor shall be equipped with an alarm which sounds a warning when radioactive waste is present. For purposes of this permit, radioactive waste shall be defined as any waste which measures above ambient background levels of radiation. All radioactive infectious waste shall be managed in accordance with the applicable rules of the Ohio Department of Health and the regulations of the United States Nuclear Regulatory Commission.

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

8. A scale (accurate to within one pound) shall be installed near this emissions unit to weigh all of the material charged to the unit. A written log shall be kept that records the amount of material charged to any unit on a pounds per hour basis and a pounds per batch basis. Alternative arrangements may be approved by the director provided they can shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of charging rates.

9. The permittee shall maintain the following records, along with the date of each record:

a. the emissions unit charge dates, times, and weights and hourly charge rates;
b. primary chamber temperatures recorded during each minute of operation;
c. secondary chamber temperatures recorded during each minute of operation;
d. liquid flow rate to the wet scrubber inlet during each minute of operation;
e. pressure drop across the wet scrubber system during each minute of operation, or horsepower or amperage to the wet scrubber during each minute of operation;
f. temperature at the flue gas exhaust during each minute of operation;
g. the pH at the inlet to the wet scrubber during each minute of operation;
h. records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 operating days of an inspection or the time frame established by the EPA Administrator or delegated enforcement authority; and
i. records indicating use of the bypass stack, including dates, times, and durations.

10. The permittee shall identify each calendar day for which data on emission rates or operating parameters specified in this section were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.

11. The permittee shall maintain and make available to Ohio EPA inspectors a log that identifies each calendar day for which data on emission rates or operating parameters specified above exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.

12. The permittee shall maintain and make available to Ohio EPA inspectors a log of the records of calibration of for the monitoring devices required above.

13. The permittee shall maintain and make available to Ohio EPA inspectors a log that identifies the calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken.

14. The permittee shall maintain and make available to Ohio EPA inspectors a log that documents the results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.

15. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of HMIWI operators who have completed review of the documentation required in section A.III.2, including the date of the initial review and all subsequent monthly reviews.

16. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training.

17. The permittee shall maintain and make available to Ohio EPA inspectors records showing the names of the HMIWI operators have met the criteria for qualifications under 40 CFR Part 62 section 62.14423 and the dates of their qualification.

IV. Reporting Requirements

1. The permittee shall submit annual reports which provide the following information for the previous calendar year:

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

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

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

3. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the daily operating hours limitation.

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

4. The permittee shall submit quarterly deviation (excursion) reports which provide the following information for each period during which the primary combustion exhaust gas temperature, the secondary combustion exhaust gas temperature, the flue gas exhaust temperature and the bypass stack temperature (if applicable) fall below the applicable limitations:

a. the date of the excursion;
b. the time interval over which the excursion occurred;
c. the parametric values during the excursion;
d. the cause(s) for the excursion; and
e. the corrective action which has been or will be taken to prevent similar excursions in the future.

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

IV. Reporting Requirements (continued)

5. The permittee shall submit quarterly deviation (excursion) reports which provide the following information for each period during which the allowable range for pressure drop across the scrubber, the minimum scrubber liquid flow rate and the minimum scrubber liquid pH did not comply with the allowable range or minimum operating parameter specified above:

a. the date of the excursion;
b. the time interval over which the excursion occurred;
c. the parametric values during the excursion;
d. the cause(s) for the excursion; and
e. the corrective action which has been or will be taken to prevent similar excursions in the future.

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

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

V. Testing Requirements

1. The permittee shall conduct a performance test for PE, opacity, CO, NOx, dioxin/furan, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni within 3 months after issuance of this permit using the test methods and procedures outlined below. This emission test shall be performed to demonstrate compliance with the emission limits in section A.I.1 and to establish the minimum and maximum operating parameters specified in sections A.II.14 to A.II.17 of this permit. See section A.VI.3 for additional information concerning the compliance status of this emissions unit.

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

a. 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
b. determine compliance with the PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni emission limits by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods described below. If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant (PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, or Ni), the permittee may forego a performance test for that pollutant for the next 2 years. At a minimum, the permittee shall conduct a performance test for PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, and Ni every third year (no more than 36 months following the previous performance test). If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PE, CO, HCl, Pb, Cd, Hg, As, Be, Cr, or Ni), the permittee may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emission limit, the permittee shall conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the emission limit. The Administrator may waive the requirement to conduct annual performance tests over a 3-year period.

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

a. the emissions test(s) shall be conducted at the maximum charge rate unless otherwise specified or approved by the Ohio EPA;
b. personnel from the Ohio EPA, Central District Office shall be permitted to witness the emissions test(s), examine the testing equipment and acquire data and information regarding the emissions unit operating parameters;
c. the Ohio EPA, Central District Office may request a repeat performance test at any time;

d. all performance tests shall consist of a minimum of three test runs conducted under representative operating conditions;
e. the minimum sample time shall be 1 hour per test run unless otherwise indicated in this section;
f. 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;
g. 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);
h. the permittee shall adjust pollutant concentrations to 7 percent oxygen;
i. the permittee shall use EPA Reference Method 5 or 29 of 40 CFR part 60, Appendix A to measure particulate matter emissions;
j. the permittee shall use EPA Reference Method 9 of 40 CFR part 60, Appendix A to measure stack opacity;
k. the permittee shall use EPA Reference Method 10 or 10B of 40 CFR part 60, Appendix A to measure the CO emissions;
l. 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);
m. the permittee shall use EPA Reference Method 26 of 40 CFR part 60, Appendix A to measure HCl emissions;
n. the permittee shall use EPA Reference Method 29 of 40 CFR part 60, Appendix A to measure As, Be, Cd, Cr, Pb, Hg and Ni emissions; and
o. use of the bypass stack during a performance test will invalidate the performance test.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test(s).

A comprehensive written report on the results of the emissions test(s) shall be submitted to the Ohio EPA, Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

4. The permittee may conduct a repeat performance test at any time to establish new values for the operating parameters.

5. The permittee may conduct a repeat performance test within thirty days of a violation of applicable operating parameter(s). These performance tests shall be conducted using the identical operating parameters that indicated a violation under sections A.II.14 to A.II.17 of this permit.

6. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

6.a Emission Limitation:
PE shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf) of exhaust gas.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 5 or 29.

6.b Emission Limitation:
Sulfur dioxide (SO2) emissions shall not exceed 55.0 parts per million by volume.

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

6.c Emission Limitation:
Nitrogen oxides (NOx) emissions shall not exceed 250.0 parts per million by volume.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

6.d Emission Limitation:
Carbon monoxide (CO) emissions shall not exceed 40.0 parts per million by volume.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or 10B.

6.e Emission Limitations:
Lead (Pb) emissions shall not exceed 0.52 grain per 1000 dry standard cubic foot or 70% reduction.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.f Emission Limitations:
Dioxin/furan (D/F) emissions shall not exceed 55 grains per billion dry standard cubic foot of total D/F or 1.0 grain per billion dry standard cubic foot of D/F Toxics Equivalency Factor (TEQ).

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 23.

6.g Emission Limitations:
Hydrogen chloride (HCl) emissions shall not exceed 100 parts per million by volume or 93% reduction.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 26 or 26A.

6.h Emission Limitations:
Cadmium (Cd) emissions shall not exceed 0.07 grain per 1000 dry standard cubic foot or 65% reduction.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.i Emission Limitations:
Mercury (Hg) emissions shall not exceed 0.24 grain per 1000 dry standard cubic foot or 85% reduction.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.j Emission Limitation:
Arsenic and arsenic compound emissions shall not exceed 0.0042 pound per hour.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.k Emission Limitation:
Beryllium and beryllium compound emissions shall not exceed 0.0076 pound per hour.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.l Emission Limitation:
Chromium and chromium compound emission shall not exceed 0.0015 pound per hour.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

6.m Emission Limitation:
Nickel and nickel compound emissions shall not exceed 0.0076 pound per hour.

Applicable Compliance Method:
The test methods employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29.

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

Applicable Compliance Method:
The test method employed to demonstrate compliance with the emission limitation shall be 40 CFR Part 60, Appendix A, Method 9.

VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

2. The Ohio EPA is currently working on revisions to OAC Chapter 3745-75. When these revisions are apporved and become effective, the permittee shall apply for a revision to its Title V permit in order to meet the new requirements of OAC Chapter 3745-75.

3. The permittee was required to achieve final compliance with 40 CFR Part 62, Subpart HHH by September 15, 2002. The permittee conducted an initial performance test within 180 days of September 15, 2002 as required per 40 CFR Part 62, Subpart HHH; however, the required monitoring equipment needed to establish the minimum and maximum operating parameters specified in sections A.II.14 to A.II.17 of this permit was not installed at the time of the emission test.

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

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

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

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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