State of Ohio Environmental Protection Agency

Street Address:
1800 WaterMark Drive
Columbus, OH 43215-1099

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

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

04/02/98

CERTIFIED MAIL

RE: Draft Title V Chapter 3745-77 permit

13-18-17-2479
Southerly Wastewater Treatment Center
Frank M. Cuffaro
6000 Canal Road
Cuyahoga Heights, OH 44125

Dear Frank M. Cuffaro:

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 Cleveland Division of Air Pollution Control 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 Cleveland Division of Air Pollution Control.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Cleveland Division of Air Pollution Control
Pennsylvania

Ohio EPA
State of Ohio Environmental Protection Agency

TITLE V PERMIT

Issue Date: 04/02/98

DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

Southerly Wastewater Treatment Center
6000 Canal Road
Cuyahoga Heights, OH 44125

of a Title V permit for Facility ID: 13-18-17-2479

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
B002 (Boiler # 2)
69 MMBtu/Hr B&W Boiler (Package Boiler) to produce steam for process and heating

B003 (Boiler # 3)
92.88 MMBtu/Hr Nebraska Gas Boiler to produce steam for process and space heating

N005 (Incinerator # 1)
Incineration of Sewage Sludge

N006 (Incinerator # 2)
Incineration of Sewage Sludge

N007 (Incinerator # 3)
Incineration of Sewage Sludge

N008 (Incinerator # 4)
Incineration of Sewage Sludge

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 3745-77-04(A) 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:

Cleveland Division of Air Pollution Control
1925 St. Clair
Cleveland, OH 44114
(216) 664-2324

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping 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.

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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

   i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
   ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (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. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. 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. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
   iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring</u>, <u>recordkeeping</u>, <u>and reporting requirements</u> 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. 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, recordkeeping, 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.

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 are true, accurate, and complete.

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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

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.

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.

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.

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. 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.

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.

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.

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.

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 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.

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.

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 appropriate Ohio EPA District Office or local air agency 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.

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.

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).

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.

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, 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; and

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 further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

B. State Only Enforceable Section

1. 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.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping 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 (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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.)

3. 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.

4. 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.

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:

F001: Paved Roads and Parking
P002: Vacuum Pumps
P003: Sewage Sludge Wet Wells
P004: TCS Thickening Tanks
P005: Storage Tanks
Z006: Atmospheric Separators

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: Boiler # 2 (B002)

Activity Description: 69 MMBtu/Hr B&W Boiler (Package Boiler) to produce steam for process and heating

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
69.0 MMBtu/hr gas-fired boiler (fuel oil no. 2 standby only) to produce steam for process and space heating.	OAC 3745-17-10, see A.VI.	0.020 pound PM per MMBTU of heat input
	OAC 3745-18-06, see A.VI.	1.6 pounds sulfur dioxide per MMBTU of heat input when burning no. 2 fuel oil.
	OAC 3745-31-05, see A.VI.	0.15 pound NOx per MMBTU of heat input.
	OAC 3745-17-07(A), see A.VI.	Visible particulate emissions from the stack shall not exceed twenty per cent opacity, as a six-minute average except that visible particulate emissions may exceed twenty per cent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes, but shall not exceed sixty percent opacity, as a six-minute average, at any time.

2. Additional Terms and Conditions

2.a This emissions unit shall be equipped with low NOx burners.

II. Operational Restrictions

1. Maximum heat input from the combination of Boilers No. 2 and No. 3 shall not exceed 93 MMBTU/hr as a daily average.

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

III. Monitoring and/or Record Keeping Requirements

1. 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 SO2 emission rate in lb/MMBTU.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. The permittee shall maintain daily records of the following information for each of emissions units B002 and B003 and the two boilers combined:

a. the amount of No. 2 oil burned (gallons);
b. the amount of natural gas burned (cubic feet);
c. the calculated total heat input based on the following formula: $Z = 5833X + 41.75Y$, where X is the daily amount of No. 2 fuel oil in gallons, Y is the daily number of cubic feet of natural gas and Z is the daily average heat input in Btu/hr.

IV. Reporting Requirements

1. Quarterly written reports of any deviations from the requirements for oil sulfur content and maximum allowable heat input shall be made to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

1.a The emission testing shall be conducted annually by April 30 of each year.

1.b The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for NOx and PM while burning fuel oil.

1.c The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Method 5 and Method 7E.

V. Testing Requirements (continued)

1.d The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the SO2 emission limitation in Section A.I. of these terms and conditions shall be determined by the monitoring and recordkeeping requirements of these terms and conditions.

3. Compliance with the visible emissions limitation in A.I shall be determined using Method 9 pursuant to OAC 3745-17-03(B)(1).

VI. Miscellaneous Requirements

1. This "Terms and Conditions" shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all of the air pollution control requirements for this emissions unit contained in permit to install number 13-2375 issued on June 3, 1992: A.I, A.II, A.III, A.IV.

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: Boiler # 3 (B003)

Activity Description: 92.88 MMBtu/Hr Nebraska Gas Boiler to produce steam for process and space heating

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
69.0 MMBtu/hr gas-fired boiler (fuel oil no. 2 standby only) to produce steam for process and space heating.	OAC 3745-17-10, see A.VI.	0.020 pound PM per MMBTU of heat input.
	OAC 3745-31-05, see A.VI.	0.5 pound sulfur dioxide per MMBTU of heat input when burning no. 2 fuel oil. 0.15 pound NOx per MMBTU of heat input. Visible emissions shall not exceed 5% opacity except for one six minute period each hour.
	OAC 3745-17-07(A), see A.VI.	Visible particulate emissions from the stack shall not exceed twenty per cent opacity, as a six-minute average except that visible particulate emissions may exceed twenty per cent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes, but shall not exceed sixty percent opacity, as a six-minute average, at any time.
	OAC 3745-18-06, see A.VI.	Less stringent than BAT.

2. Additional Terms and Conditions

2.a This emissions unit shall be equipped with low NOx burners.

II. Operational Restrictions

1. Maximum heat input from the combination of Boilers No. 2 and No. 3 shall not exceed 93 MMBTU/hr as a daily average.

2. The maximum quantity of fuel oil no. 2 to be burned in this boiler shall not exceed 300,000 gallons per rolling 365-day period. The sulfur content of the fuel oil shall not exceed 0.5% by weight.

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

III. Monitoring and/or Record Keeping Requirements

1. 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 SO2 emission rate in lb/MMBTU.

2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

3. The permittee shall maintain daily records of the following information for each of emissions units B002 and B003 and the two boilers combined:

a. the amount of No. 2 oil burned (gallons);
b. the amount of natural gas burned (cubic feet);
c. the calculated total heat input based on the following formula: $Z = 5833X + 41.75Y$, where X is the daily amount of No. 2 fuel oil in gallons, Y is the daily number of cubic feet of natural gas and Z is the daily average heat input in Btu/hr.
d. the rolling 365-day total of No. 2 oil burned (for B003 only).

IV. Reporting Requirements

1. If employing fuel oil no. 2 in this boiler, the permittee must notify Cleveland Bureau of Air Pollution Control within fourteen (14) days of the use of this fuel.

2. Quarterly written reports of any deviations from the requirements for oil sulfur content and maximum allowable heat input shall be made to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during that quarter.

V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

1.a Emission testing shall be conducted annually by April 30 of each year.

1.b The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for NOx and PM while burning fuel oil.

1.c The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Method 5 and Method 7E.

V. Testing Requirements (continued)

1.d The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the SO2 emission limitation in Section A.I. of these terms and conditions shall be determined by the monitoring and recordkeeping requirements of these terms and conditions.

3. Compliance with the visible emissions limitation in A.I shall be determined using Method 9 pursuant to OAC 3745-17-03(B)(1).

VI. Miscellaneous Requirements

1. This "Terms and Conditions" shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all of the air pollution control requirements for this emissions unit contained in permit to install number 13-2375 issued on June 3, 1992: A.I, A.II, A.III, A.IV.

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: Incinerator # 1 (N005)

Activity Description: Incineration of Sewage Sludge

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	40. CFR.61.5 Subpart E, National Emissions Standards for Hazardous Air Pollutants (NESHAP), see A.VI.	3200 grams of mercury per 24-hour period.
	OAC 3745-17-07, see A.VI.	20 percent opacity, as a six-minute average, except as specified by rule
	OAC 3745-17-09, see A.VI.	Less stringent than 40 CFR 60.151
	40 CFR 60.151, see A.VI.	1.3 lbs particulate matter/ton dry sludge input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 30 inches of water at all times while the emissions unit is in operation.

3. The scrubber water flow rate shall be continuously maintained at a value of not less than 250 gallons per minute at all times while the emissions unit is operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall analyze the mercury content of the sludge, in accordance with 40 CFR 61.54, at least once each calendar year and shall maintain records for each analysis that include the following:

a. the mercury content of the sludge (on a dry sludge basis, in grams per ton); and

b. the calculated maximum daily mercury emission rate (in grams) based upon the measured mercury content and a feed rate of 3.6 dry tons of sludge per hour.

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

2. Opacity Monitoring:

a. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) and six-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

c. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

d. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures of ensuring that 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

3. Venturi/Packed Bed Scrubber Monitoring and Recordkeeping Requirements:

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate 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 permittee shall collect and record the following information each day:

a. The pressure drop across the scrubber, in inches of water, on a continuous basis.

b. The scrubber water flow rate, in gallons per minute, on a continuous basis.

c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

IV. Reporting Requirements

1. Opacity Reports:

a. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each six-minute block average above the applicable opacity limitation(s).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

c. If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Venturi/Packed Bed Scrubber Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:

a. The static pressure drop across the scrubber.

b. The scrubber water flow rate.

3. A comprehensive written report on the results of each sludge analysis for mercury shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements

1. Compliance with the mercury emission limitation shall be determined pursuant to the monitoring and recordkeeping in A.III.1.

2. Compliance with opacity limitation:

Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the PM emission limitation:

Compliance with the PM emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

c. Personnel from the appropriate Ohio EPA District Office or local air agency 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.

d. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

1. These terms and conditions shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in the permit to install No. 13-324 as issued on April 5, 1978: A.I., A.II, A.V., B.I., B.II., B.III., B.V.

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	OAC 3745-31-05, see A.VI	5.0 lbs NOx per ton of dry sludge.

2. Additional Terms and Conditions

2.a The individual and combined mass emissions from sources N005, N006, N007, and N008 shall not exceed the following:

i. PM: 56.50 TPY (N005: 16.30 TPY; N006: 10.60 TPY; N007: 15.60 TPY; N008: 14.00 TPY)

ii. SO2: 8.70 TPY (N005: 2.50 TPY; N006: 1.60 TPY; N007: 2.40 TPY; N008: 2.20 TPY)

iii. NOx: 217.37 TPY (N005: 62.58 TPY; N006: 40.82 TPY; N007: 59.90 TPY; N008: 54.10 TPY)

iv. VOC: 69.60 TPY (N005: 20.02 TPY; N006: 13.10 TPY; N007: 19.16 TPY; N008: 17.31 TPY)

v. HCl: 0.87 TPY (N005: 0.25 TPY; N006: 0.16 TPY; N007: 0.24 TPY; N008: 0.22 TPY)

vi. Hg: 3.44 TPY (N005: 1.02 TPY; N006: 0.66 TPY; N007: 0.88 TPY; N008: 0.88 TPY)

II. Operational Restrictions

1. The total combined dry sludge feed to this source and incinerators N005, N006, N007, and N008 shall not exceed 86947 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the number of hours of operation of each incinerator on a monthly basis in addition to the total number of hours for all incinerators for each calendar year. The total tons of dry sludge feed to all incinerators shall be determined by multiplying the total hours of operation by 3.6 tons of dry sludge feed per hour.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the PM emission limitation for each emissions unit in Section B.I. of these terms and conditions shall be determined by multiplying the results of the stack test, in pounds per hour, performed pursuant to A.V in Part III of this permit, by the number of hours recorded for the calendar year in B.III, and dividing by 2000 lbs/ton.

V. Testing Requirements (continued)

2. Compliance with the NOx emission limitation:

Compliance with the NOx emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

3. Compliance with the VOC emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton.

4. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton. .

5. Compliance with the HCl emission limitation shall be determined by multiplying the tons of dry sludge incinerated by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995), and dividing by 2000 lbs/ton.

6. Compliance with the tons per year Hg emission limitation shall be determined by multiplying the maximum daily emission rate determined for the calendar year (from A.III.1) by 365, and dividing by 908,000 grams/ton.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Incinerator # 2 (N006)

Activity Description: Incineration of Sewage Sludge

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	40. CFR.61.5 Subpart E, National Emissions Standards for Hazardous Air Pollutants (NESHAP), see A.VI.	3200 grams of mercury per 24-hour period.
	OAC 3745-17-07, see A.VI.	20 percent opacity, as a six-minute average, except as specified by rule
	OAC 3745-17-09, see A.VI.	Less stringent than 40 CFR 60.151
	40 CFR 60.151, see A.VI.	1.3 lbs particulate matter/ton dry sludge input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 30 inches of water at all times while the emissions unit is in operation.

3. The scrubber water flow rate shall be continuously maintained at a value of not less than 250 gallons per minute at all times while the emissions unit is operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall analyze the mercury content of the sludge, in accordance with 40 CFR 61.54, at least once each calendar year and shall maintain records for each analysis that include the following:

a. the mercury content of the sludge (on a dry sludge basis, in grams per ton); and

b. the calculated maximum daily mercury emission rate (in grams) based upon the measured mercury content and a feed rate of 3.6 dry tons of sludge per hour.

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

2. Opacity Monitoring:

a. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) and six-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

c. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

d. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures of ensuring that 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

3. Venturi/Packed Bed Scrubber Monitoring and Recordkeeping Requirements:

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate 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 permittee shall collect and record the following information each day:

a. The pressure drop across the scrubber, in inches of water, on a continuous basis.

b. The scrubber water flow rate, in gallons per minute, on a continuous basis.

c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

IV. Reporting Requirements

1. Opacity Reports:

a. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each six-minute block average above the applicable opacity limitation(s).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

c. If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Venturi/Packed Bed Scrubber Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:

a. The static pressure drop across the scrubber.

b. The scrubber water flow rate.

3. A comprehensive written report on the results of each sludge analysis for mercury shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements

1. Compliance with the mercury emission limitation shall be determined pursuant to the monitoring and recordkeeping in A.III.1.

2. Compliance with opacity limitation:

Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the PM emission limitation:

Compliance with the PM emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

c. Personnel from the appropriate Ohio EPA District Office or local air agency 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.

d. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

1. These terms and conditions shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in the permit to install No. 13-324 as issued on April 5, 1978: A.I., A.II, A.V., B.I., B.II., B.III., B.V.

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	OAC 3745-31-05, see A.VI	5.0 lbs NOx per ton of dry sludge.

2. Additional Terms and Conditions

2.a The individual and combined mass emissions from sources N005, N006, N007, and N008 shall not exceed the following:

i. PM: 56.50 TPY (N005: 16.30 TPY; N006: 10.60 TPY; N007: 15.60 TPY; N008: 14.00 TPY)

ii. SO2: 8.70 TPY (N005: 2.50 TPY; N006: 1.60 TPY; N007: 2.40 TPY; N008: 2.20 TPY)

iii. NOx: 217.37 TPY (N005: 62.58 TPY; N006: 40.82 TPY; N007: 59.90 TPY; N008: 54.10 TPY)

iv. VOC: 69.60 TPY (N005: 20.02 TPY; N006: 13.10 TPY; N007: 19.16 TPY; N008: 17.31 TPY)

v. HCl: 0.87 TPY (N005: 0.25 TPY; N006: 0.16 TPY; N007: 0.24 TPY; N008: 0.22 TPY)

vi. Hg: 3.44 TPY (N005: 1.02 TPY; N006: 0.66 TPY; N007: 0.88 TPY; N008: 0.88 TPY)

II. Operational Restrictions

1. The total combined dry sludge feed to this source and incinerators N005, N006, N007, and N008 shall not exceed 86947 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the number of hours of operation of each incinerator on a monthly basis in addition to the total number of hours for all incinerators for each calendar year. The total tons of dry sludge feed to all incinerators shall be determined by multiplying the total hours of operation by 3.6 tons of dry sludge feed per hour.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the PM emission limitation for each emissions unit in Section B.I. of these terms and conditions shall be determined by multiplying the results of the stack test, in pounds per hour, performed pursuant to A.V in Part III of this permit, by the number of hours recorded for the calendar year in B.III, and dividing by 2000 pounds/ton.

V. Testing Requirements (continued)

2. Compliance with the NOx emission limitation:

Compliance with the NOx emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

3. Compliance with the VOC emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton.

4. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton. .

5. Compliance with the HCl emission limitation shall be determined by multiplying the tons of dry sludge incinerated by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995), and dividing by 2000 lbs/ton.

6. Compliance with the tons per year Hg emission limitation shall be determined by multiplying the maximum daily emission rate determined for the calendar year (from A.III.1) by 365, and dividing by 908,000 grams/ton.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Incinerator # 3 (N007)

Activity Description: Incineration of Sewage Sludge

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	40. CFR.61.5 Subpart E, National Emissions Standards for Hazardous Air Pollutants (NESHAP), see A.VI.	3200 grams of mercury per 24-hour period.
	OAC 3745-17-07, see A.VI.	20 percent opacity, as a six-minute average, except as specified by rule
	OAC 3745-17-09, see A.VI.	Less stringent than 40 CFR 60.151
	40 CFR 60.151, see A.VI.	1.3 lbs particulate matter/ton dry sludge input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 30 inches of water at all times while the emissions unit is in operation.

3. The scrubber water flow rate shall be continuously maintained at a value of not less than 250 gallons per minute at all times while the emissions unit is operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall analyze the mercury content of the sludge, in accordance with 40 CFR 61.54, at least once each calendar year and shall maintain records for each analysis that include the following:

a. the mercury content of the sludge (on a dry sludge basis, in grams per ton); and

b. the calculated maximum daily mercury emission rate (in grams) based upon the measured mercury content and a feed rate of 3.6 dry tons of sludge per hour.

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

2. Opacity Monitoring:

a. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) and six-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

c. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

d. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures of ensuring that 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

3. Venturi/Packed Bed Scrubber Monitoring and Recordkeeping Requirements:

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate 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 permittee shall collect and record the following information each day:

a. The pressure drop across the scrubber, in inches of water, on a continuous basis.

b. The scrubber water flow rate, in gallons per minute, on a continuous basis.

c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

IV. Reporting Requirements

1. Opacity Reports:

a. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each six-minute block average above the applicable opacity limitation(s).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

c. If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Venturi/Packed Bed Scrubber Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:

a. The static pressure drop across the scrubber.

b. The scrubber water flow rate.

3. A comprehensive written report on the results of each sludge analysis for mercury shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements

1. Compliance with the mercury emission limitation shall be determined pursuant to the monitoring and recordkeeping in A.III.1.

2. Compliance with opacity limitation:

Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the PM emission limitation:

Compliance with the PM emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

c. Personnel from the appropriate Ohio EPA District Office or local air agency 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.

d. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

1. These terms and conditions shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in the permit to install No. 13-324 as issued on April 5, 1978: A.I., A.II, A.V., B.I., B.II., B.III., B.V.

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	OAC 3745-31-05, see A.VI	5.0 lbs NOx per ton of dry sludge.

2. Additional Terms and Conditions

2.a The individual and combined mass emissions from sources N005, N006, N007, and N008 shall not exceed the following:

i. PM: 56.50 TPY (N005: 16.30 TPY; N006: 10.60 TPY; N007: 15.60 TPY; N008: 14.00 TPY)

ii. SO2: 8.70 TPY (N005: 2.50 TPY; N006: 1.60 TPY; N007: 2.40 TPY; N008: 2.20 TPY)

iii. NOx: 217.37 TPY (N005: 62.58 TPY; N006: 40.82 TPY; N007: 59.90 TPY; N008: 54.10 TPY)

iv. VOC: 69.60 TPY (N005: 20.02 TPY; N006: 13.10 TPY; N007: 19.16 TPY; N008: 17.31 TPY)

v. HCl: 0.87 TPY (N005: 0.25 TPY; N006: 0.16 TPY; N007: 0.24 TPY; N008: 0.22 TPY)

vi. Hg: 3.44 TPY (N005: 1.02 TPY; N006: 0.66 TPY; N007: 0.88 TPY; N008: 0.88 TPY)

II. Operational Restrictions

1. The total combined dry sludge feed to this source and incinerators N005, N006, N007, and N008 shall not exceed 86947 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the number of hours of operation of each incinerator on a monthly basis in addition to the total number of hours for all incinerators for each calendar year. The total tons of dry sludge feed to all incinerators shall be determined by multiplying the total hours of operation by 3.6 tons of dry sludge feed per hour.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the PM emission limitation for each emissions unit in Section B.I. of these terms and conditions shall be determined by multiplying the results of the stack test, in pounds per hour, performed pursuant to A.V in Part III of this permit, by the number of hours recorded for the calendar year in B.III, and dividing by 2000 pounds/ton.

V. Testing Requirements (continued)

2. Compliance with the NOx emission limitation:

Compliance with the NOx emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

3. Compliance with the VOC emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton.

4. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton. .

5. Compliance with the HCl emission limitation shall be determined by multiplying the tons of dry sludge incinerated by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995), and dividing by 2000 lbs/ton.

6. Compliance with the tons per year Hg emission limitation shall be determined by multiplying the maximum daily emission rate determined for the calendar year (from A.III.1) by 365, and dividing by 908,000 grams/ton.

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Incinerator # 4 (N008)

Activity Description: Incineration of Sewage Sludge

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	40. CFR.61.5 Subpart E, National Emissions Standards for Hazardous Air Pollutants (NESHAP), see A.VI.	3200 grams of mercury per 24-hour period.
	OAC 3745-17-07, see A.VI.	20 percent opacity, as a six-minute average, except as specified by rule
	OAC 3745-17-09, see A.VI.	Less stringent than 40 CFR 60.151
	40 CFR 60.151, see A.VI.	1.3 lbs particulate matter/ton dry sludge input

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 30 inches of water at all times while the emissions unit is in operation.

3. The scrubber water flow rate shall be continuously maintained at a value of not less than 250 gallons per minute at all times while the emissions unit is operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall analyze the mercury content of the sludge, in accordance with 40 CFR 61.54, at least once each calendar year and shall maintain records for each analysis that include the following:

a. the mercury content of the sludge (on a dry sludge basis, in grams per ton); and

b. the calculated maximum daily mercury emission rate (in grams) based upon the measured mercury content and a feed rate of 3.6 dry tons of sludge per hour.

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

2. Opacity Monitoring:

a. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) and six-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

c. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

d. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures of ensuring that 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

3. Venturi/Packed Bed Scrubber Monitoring and Recordkeeping Requirements:

The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate 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 permittee shall collect and record the following information each day:

a. The pressure drop across the scrubber, in inches of water, on a continuous basis.

b. The scrubber water flow rate, in gallons per minute, on a continuous basis.

c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

IV. Reporting Requirements

1. Opacity Reports:

a. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each six-minute block average above the applicable opacity limitation(s).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting any continuous opacity monitoring system downtime while the emissions unit was on line (date, time duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

c. If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. Venturi/Packed Bed Scrubber Reporting Requirements

The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:

a. The static pressure drop across the scrubber.

b. The scrubber water flow rate.

3. A comprehensive written report on the results of each sludge analysis for mercury shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

V. Testing Requirements

1. Compliance with the mercury emission limitation shall be determined pursuant to the monitoring and recordkeeping in A.III.1.

2. Compliance with opacity limitation:

Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the PM emission limitation:

Compliance with the PM emission limitation in Section A.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

c. Personnel from the appropriate Ohio EPA District Office or local air agency 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.

d. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

1. These terms and conditions shall be posted on or near the emissions unit.

2. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in the permit to install No. 13-324 as issued on April 5, 1978: A.I., A.II, A.V., B.I., B.II., B.III., B.V.

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
3.6 dry sludge tons per hour multiple hearth sludge incinerator with venturi scrubber.	OAC 3745-31-05, see A.VI	5.0 lbs NOx per ton of dry sludge.

2. Additional Terms and Conditions

2.a The individual and combined mass emissions from sources N005, N006, N007, and N008 shall not exceed the following:

i. PM: 56.50 TPY (N005: 16.30 TPY; N006: 10.60 TPY; N007: 15.60 TPY; N008: 14.00 TPY)

ii. SO2: 8.70 TPY (N005: 2.50 TPY; N006: 1.60 TPY; N007: 2.40 TPY; N008: 2.20 TPY)

iii. NOx: 217.37 TPY (N005: 62.58 TPY; N006: 40.82 TPY; N007: 59.90 TPY; N008: 54.10 TPY)

iv. VOC: 69.60 TPY (N005: 20.02 TPY; N006: 13.10 TPY; N007: 19.16 TPY; N008: 17.31 TPY)

v. HCl: 0.87 TPY (N005: 0.25 TPY; N006: 0.16 TPY; N007: 0.24 TPY; N008: 0.22 TPY)

vi. Hg: 3.44 TPY (N005: 1.02 TPY; N006: 0.66 TPY; N007: 0.88 TPY; N008: 0.88 TPY)

II. Operational Restrictions

1. The total combined dry sludge feed to this source and incinerators N005, N006, N007, and N008 shall not exceed 86947 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the number of hours of operation of each incinerator on a monthly basis in addition to the total number of hours for all incinerators for each calendar year. The total tons of dry sludge feed to all incinerators shall be determined by multiplying the total hours of operation by 3.6 tons of dry sludge feed per hour.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the PM emission limitation for each emissions unit in Section B.I. of these terms and conditions shall be determined by multiplying the results of the stack test, in pounds per hour, performed pursuant to A.V in Part III of this permit, by the number of hours recorded for the calendar year in B.III, and dividing by 2000 pounds/ton.

V. Testing Requirements (continued)

2. Compliance with the NOx emission limitation:

Compliance with the NOx emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the following:

a. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.

ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx.

iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

b. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

3. Compliance with the VOC emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton.

4. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of dry sludge incinerated by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995), and dividing by 2000 lbs/ton. .

5. Compliance with the HCl emission limitation shall be determined by multiplying the tons of dry sludge incinerated by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995), and dividing by 2000 lbs/ton.

6. Compliance with the tons per year Hg emission limitation shall be determined by multiplying the maximum daily emission rate determined for the calendar year (from A.III.1) by 365, and dividing by 908,000 grams/ton.

VI. Miscellaneous Requirements

None

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5. 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).

6. 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.

7. 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.

8. 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.