John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

11/26/2013

Certified Mail

Robin Halperin
Southerly Wastewater Treatment Center
3900 Euclid Ave
Cleveland, OH 44115

Facility ID: 1318172479
Permit Number: P0095323
County: Cuyahoga

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Plain Dealer. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Cleveland Division of Air Quality
2nd Floor
75 Erieview Plaza
Cleveland, OH 44114

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Cleveland Division of Air Quality at (216)664-2297.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
CDAQ; Pennsylvania

PUBLIC NOTICE
11/26/2013 Issuance of Draft Air Pollution Title V Permit

Southerly Wastewater Treatment Center
6000 Canal Road,
Cuyahoga Heights, OH 44125
Cuyahoga County
FACILITY DESC.: Sewage Treatment Facilities
PERMIT #: P0095323
PERMIT TYPE: Renewal
PERMIT DESC: Title V renewal permit for emissions units B002: 69 MMBtu/hr natural gas boiler equipped with low NOx burners; B003: 92.88 MMBtu/hr natural gas boiler equipped with low NOx burners; B004-B009: six 2000 kW No. 2 oil, low-sulfur, emergency electrical generators; and N005-N008: four multiple hearth incinerators used for the incineration of sewage sludge controlled with a scrubber.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: http://epa.ohio.gov/dapc/permitsonline.aspx by entering the permit # or: David Hearne, Cleveland Division of Air Quality, 2nd Floor 75 Erieview Plaza, Cleveland, OH 44114. Ph: (216)664-2297

Statement of Basis For Air Pollution Title V Permit

Facility ID:	1318172479
Facility Name:	Southerly Wastewater Treatment Center
Facility Description:	Northeast Ohio Regional Sewer District POTW.
Facility Address:	6000 Canal Road, Cuyahoga Heights, OH 44125
Permit #:	P0095323, Renewal

This facility is subject to Title V because it is major for:
☐ Lead ☐ Sulfur Dioxide ☐ Carbon Monoxide ☐ Volatile Organic Compounds ☒ Nitrogen Oxides
☐ Particulate Matter ≤ 10 microns ☐ Single Hazardous Air Pollutant ☐ Combined Hazardous Air Pollutants
☐ Maximum Available Control Technology Standard(s) ☐ GHG ☐ Title IV

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(U)?	Yes.
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No.
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A

Please identify the affected unit(s)and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	Emissions unit B002 was issued PTI 13-460 on 8/14/1979. Emissions unit B003 was issued PTI 13-2375 on 2/18/1993. Emissions units B004-B009 were issued PTI 13-04742 on 8/22/2008. These units are subject to 40 CFR Part 63 Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. This federal rule applicability was not addressed in PTI 13-04742. Emissions units N005-N008 were issued Title V P0095322 on 6/20/2003. These units were installed in 1965. However, PTI 13-324 was issued on 4/5/1978.
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	Emissions units N005-N008, multiple hearth incinerators, require a CAM plan for the scrubbers used to control particulate emissions from the incinerators. Each incinerator has an uncontrolled potential to emit for particulate greater than 100 tons/year.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other 40 CFR	
B.2		Part 60 Subpart Dc	Standards of Performance for New Stationary Sources for Small Industrial-Commercial-Institutional Steam Generating Units: B003, 92.88 MMBtu/hr Nebraska Natural Gas Fired Boiler to produce steam for process and space heating.
B.3.		Part 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines: B004, B005, B006, B007, B008, and B009 (each is 2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator).
B.4.		Part 61 Subpart E	National Emissions Standards for Hazardous Air Pollutants for Mercury: N005, N006, N007, and N008 (each is s Multiple Hearth Incinerator used to incinerate wastewater treatment plant sludge).

C. Emissions Unit Terms and Conditions

Key:

EU = emissions unit ID

ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)

OR = operational restriction

M = monitoring requirements

ENF = did noncompliance issues drive the monitoring requirements?

R = record keeping requirements

Rp = reporting requirements

ET = emission testing requirements (not including compliance method terms)

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement

Misc = miscellaneous requirements

EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B002	PE 0.03 gr/dscf	31-05(A)(3)		N	Y	N	N	Y	Y	N	N	N	OR – Burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Maintain record if different fuel used. Rp – Deviation reports that identify use of different fuel types. ET – If required, demonstrate compliance using Method 5.
B002	20% opacity from stack	17-07(A)(1)		N	Y	N	N	Y	Y	Y	N	N	OR – Burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Maintain record if different fuel used. Rp – Deviation reports that identify use of different fuel types. ET – Method 9 used to determine compliance
B002	PE 0.020 lb/MMBtu	17-10(B)(1)		N	Y	N	N	Y	Y	N	N	N	OR – Burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Maintain record if different fuel used. Rp – Deviation reports that identify use of different fuel types. ET - If required, demonstrate compliance using Method 5. Compliance demonstrated by dividing the AP-42 emission factor for natural gas combustion (1.9 lbs of particulate/MM ft^3) by the conversion factor (1000 MMBtu/MM ft^3).

B002	0.15 lbNOx/MMBtu	31-05(A)(3)		N	Y	N	N	Y	Y	N	N	N	OR – Unit shall be equipped with low NOx burners; burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Maintain record if different fuel used. Rp – Deviation reports that identify use of different fuel types.
B002	heat content > 950 Btu/standard cubic feet and sulfur content < 0.6 lb/million standard cubic feet	18-06(A)		Y	Y	N	N	Y	Y	N	N	N	ND - OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit when burning only natural gas as fuel. M – Fuel type will be adequate measure of compliance. OR – Burn only natural gas. R – Records for different fuels. Rp – Deviation reports for different fuels.
B003	0.15 lb of NOx/MMBtu;	31-05(A)(3)		N	Y	N	N	Y	Y	Y	N	N	OR – Unit shall be equipped with low NOx burners; burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Records of different fuels. Rp Deviation reports of different fuels. ET –Compliance demonstrated by dividing the emission factor for natural gas combustion (127 lbs of NOx/MMft^3, based on emission test performed in 1997) by the conversion factor (1000 MMBtu/MMft^3).
B003	61.02 TPY NOx	31-05-(A)(3)		N	Y	N	N	Y	Y	N	N	N	OR – Unit shall be equipped with low NOx burners; burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Records of different fuels. Rp - Deviation reports of different fuels. ET – Compliance demonstrated by multiplying the emission factor (0.15 lbNOx/MMBtu) by the maximum capacity of the boiler (92.88 MMBtu/hr) then multiply bu 8760 hrs/yr and divide by 2000 lbs/ton.

B003	8.14 TPY PE	31-05(A)(3)		N	Y	N	N	Y	Y	N	N	N	OR – Unit shall be equipped with low NOx burners; burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Records of different fuels. Rp - Deviation reports of different fuels. ET – Compliance demonstrated by multiplying the emission factor (0.020 lb PE/MMBtu) by the maximum capacity of the boiler (92.88 MMBtu/hr) then multiply bu 8760 hrs/yr and divide by 2000 lbs/ton.
B003	5% opacity 6-min average	31-05(A)(3)		N	Y	N	N	Y	Y	Y	N	N	OR – Burn only natural gas. M – Fuel type will be adequate measure of compliance. R – Records of different fuel. Rp – Deviation reports of different fuels. ET - Method 9 used to determine compliance.
B003	PE 0.020 lb/MMBtu	17-10(B)(1)		N	Y	N	N	Y	Y	N	N	N	OR – Maximum heat input from B002 & B003 combined shall not exceed 93 MMBtu/hr as a daily average; emissions unit shall burn only natural gas. M – Fuel type and burn rate will be adequate measure of compliance. R – Total daily heat input, average hourly heat input, amount of natural gas burned and the number of hrs of operation. Rp – Quarterly reports that identify exceedances of combined heat input for B002 & B003. ET - If required, demonstrate compliance using Method 5. Compliance demonstrated by dividing the AP-42 emission factor for natural gas combustion (1.9 lbs of particulate/MM ft^3) by the conversion factor (1000 MMBtu/MM ft^3).
B003	heat content > 950 Btu/standard cubic feet and sulfur content < 0.6 lb/million standard cubic feet	18-06(A)		Y	Y	N	N	Y	Y	N	N	N	ND - OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit when burning only natural gas as fuel. OR – Burn only natural gas. M – Fuel type will be adequate measure of compliance. R - Records of different fuel. Rp - Deviation reports of different fuels.

B004-B009	Individual: 0.72 lb/hr PE; 35.25 lbs/hrNOx; 25 tons/yrNOx; 3.58 lbs/hr CO; 0.67 lb/hr OC; and 9.97 lbs/hr SO2.	31-05(A)(3)		N	Y	N	N	Y	Y	N	N	N	OR – Use only diesel fuel with sulfur content of not more than 0.5% by weight; NOx emissions shall not exceed 25 tons/yr for each individual emissions unit. M – Fuel type will be adequate measure of compliance. R - Records of fuel type, quantity burned and sulfur content for each day fuel other than diesel is burned. Rp – Reports that identify when a fuel other than diesel was burned. ET – If required, compliance shall be determined by Methods 1-5; 6, 6A, 6B, or 6C; 7; 25 or 25A; 201 or 201A. The tons/year NOx limitation was developed by multiplying the lb/hour by the operating schedule of 1418 hours/year for this emissions unit, and dividing by 2000 pounds/ton.Compliance with NOx hourly limitation, compliance will also be shown with the annual limitation as long as the permittee does not exceed 1418 hours of operation annually for each emissions unit.
B004-B009	20% opacity from stack	17-07(A)(1)		N	Y	N	N	Y	Y	Y	N	N	OR – Use only diesel fuel with sulfur content of not more than 0.5% by weight; M – Fuel type will be adequate measure of compliance. R - Records of fuel type, quantity burned and sulfur content for each day fuel other than diesel is burned. Rp – Reports that identify when a fuel other than diesel was burned. ET – Method 9 used to determine compliance.

B004-B009	Combined: 0.75 on/yr PE; 36.91 tons/yrNOx; 3.75 tons/yr CO; 0.70 ton/yr OC; and 10.44 tons/yr SO2;	31-05(D)		N	Y	N	N	Y	Y	N	N	N	OR – Maximum cumulative annual operating hours for B004-B009 shall not exceed 2094 hrs/yr based on rolling, 12-month summation. M – Operating hours will be adequate measure of compliance. R – Monthly records of operating hours for each unit, cumulative operating hours, rolling 12-month summation of each unit, and rolling 12-month summation of cumulative operating hours. Rp – Reports which identify exceedances of rolling, 12-month limitation on the hours of operation. The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 2094 combined hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation if the permittee does not exceed 2094 hours of operation annually.
B004-B009			40 CFR Part 63 Subpart ZZZZ	N	Y	N	N	Y	Y	N	N	N	OR – Each limited to 100 hrs/yr for maintenance check and readiness testing and may be operated up to 50 hrs/yr in non-emergency situations which are counted towards the 100 hrs provided. R – Record of hrs of operation, maintenance, inspections, quality of fuel, and idle and/or startup time that exceeded 30 min. Rp – Deviation reports when the quality of fuel did not meet the requirements.
N005-N008	20% opacity from stack	17-07(A)(1)		N	Y	Y	N	Y	Y	Y	N	N	OR – Scrubber pressure drop & flow rate. M - Scrubber pressure drop & flow rate. R – Scrubber pressure drop & flow rate. Rp – Deviations in scrubber pressure drop & flow rate. ET - Method 9 used to determine compliance.

N005-N008	PE: 0.10 lb/ 100 lbs of dry material charged	17-09(B)		N	Y	Y	N	Y	Y	N	N	N	OR – pressure drop across the scrubber shall be continuously maintained within the range of 10-30 inches of water while the emissions unit is in operation. The scrubber water flow rate shall be continuously maintained within the range of 250-800 gals/minute. M – continuously monitor the pressure drop across the scrubber and the scrubber water flow rate while in operation; R – the average hourly pressure drop across the scrubber; the average hourly scrubber water flow rate; the downtime for the capture (collections) system, control device and monitoring equipment when the emissions unit was in operation. Rp – quarterly reports that identify all periods during which the scrubber parameters were not maintained within the specified ranges. ET – Previous emissions testing will be adequate measure of compliance. Please see special circumstances note below.
N005-N008			40 CFR Part 61 Subpart C	Y	N	N	N	N	Y	N	N	N	ND – This rule does not apply to these emissions units because sludge processed does not contain any “beryllium containing waste.” Rp – submit annual statement declaring that, to the best of its knowledge, the sludge does not contain any “beryllium containing waste”.
N005-N008	Mercury shall not exceed 3200 grams/ 24-hr period.		40 CFR Part 61 Subpart E	N	N	N	N	N	N	Y	N	N	OR – the requirements specified for PE shall suffice M – the requirements specified for PE shall suffice R – the requirements specified for PE shall suffice Rp - the requirements specified for PE shall suffice ET – shall conduct sludge analysis annually to demonstrate compliance with allowable mass emission rate of 3200 grams per 24-hr period; the following test method shall be employed to demonstrate compliance: 40 CFR §61.54.

N005-N008	CAM Plan		40 CFR Part 64	N	Y	Y	N	Y	Y	N	N	N	OR – Scrubber pressure drop, flow rate, stopping biosolids feed and relief stack seal inspection. M - Scrubber pressure drop flow rate, stopping biosolids feed and relief stack seal inspection. R – Scrubber pressure drop flow rate, stopping biosolids feed and relief stack seal inspection. Rp – Deviations in scrubber pressure drop, flow rate, stopping biosolids feed and relief stack seal inspection.

Special Circumstances Associated with Permit:

PTI 13-04701 was issued on 10/14/2008 for three new fluidized bed incinerators (N009, N010, and N011). The facility has not completed installation of these incinerators at this time; however, it is anticipated that installation will be complete in 2014. After installation is complete, Southerly will submit a Title V off-permit change modification request to add the new incinerators to the Title V permit and removed the existing incinerators (N005-N008). 40 CFR Part 60 Subpart MMMM – Emissions Guidelines and Compliance Times for Existing Sewage Sludge Incineration Units does apply but the state of Ohio has not yet established official rules for this subpart.

DRAFT

Division of Air Pollution Control
Title V Permit
for
Southerly Wastewater Treatment Center

Facility ID:	1318172479
Permit Number:	P0095323
Permit Type:	Renewal
Issued:	11/26/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
Southerly Wastewater Treatment Center

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Authorization

Facility ID:	1318172479
Facility Description:	Northeast Ohio Regional Sewer District POTW.
Application Number(s):	A0026882, A0037623
Permit Number:	P0095323
Permit Description:	Title V renewal permit for emissions units B002: 69 MMBtu/hr natural gas boiler equipped with low NOx burners; B003: 92.88 MMBtu/hr natural gas boiler equipped with low NOx burners; B004-B009: six 2000 kW No. 2 oil, low-sulfur, emergency electrical generators; and N005-N008: four multiple hearth incinerators used for the incineration of sewage sludge controlled with a scrubber.
Permit Type:	Renewal
Issue Date:	11/26/2013
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0095322

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

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

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Cleveland Division of Air Quality
2nd Floor
75 ErieviewPlaza
Cleveland, OH 44114
(216)664-2297

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. 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. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Cleveland Division of Air Quality. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordingsfor continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

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

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any submittedscheduled maintenancerequests, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Cleveland Division of Air Quality. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally

enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

(4) Each written report shall be signed by a Responsible Official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

(5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Cleveland Division of Air Quality unless otherwise specified.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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

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

7. General Requirements

a) 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 permitexcept as provided pursuant to A.16 below.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

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

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. 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 standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

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

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

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

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

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

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

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

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

13. 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:

(1) 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.

(2) 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.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) 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 Cleveland Division of Air Quality 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:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Cleveland Division of Air Quality) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) 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.

(2) Compliance certifications shall include the following:

a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittentconsistent with A.13.d.2.a above.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d.2.a above.

e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

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

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

14. Permit Shield

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

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

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

15. 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

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

17. Off-Permit Changes

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

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

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

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

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

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

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

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

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Federal Register 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that is subject to one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the Responsible Official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the Responsible Official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

Unless otherwise exempted, noemissions unit identified in this permit that has beencertified by the Responsible Official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11)))

24. Reporting Requirements Related to Monitoring and Record Keeping RequirementsUnder State Law Only

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to theCleveland Division of Air Quality.

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

25. Records Retention RequirementsUnder State Law Only

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.

26. 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.

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

27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements

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 Cleveland Division of Air Quality 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).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Cleveland Division of Air Quality must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potential to emit; or

c) where the company's Responsible Official has certified that an emissions unit has been permanently shut down.

30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event ofan alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Cleveland Division of Air Quality, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The following emissions units contained in this permit are subject to 40 CFR Part 60, Subpart Dc, Standards of Performance for New Stationary Sources for Small Industrial-Commercial-Institutional Steam Generating Units: B003. The complete NSPS requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at http://www.ecfr.gov or by contacting the Cleveland Division of Air Quality (Cleveland DAQ).

   The permittee must comply with all applicable requirements of 40 CFR Part 60, Subpart Dc. The permittee shall also comply with all the applicable requirements of 40 CFR Part 60, Subpart A (General Provisions). Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60, Subpart Dc and 40 CFR Part 60, Subpart A.

3. The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines: B004, B005, B006, B007, B008, and B009. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at http://www.ecfr.gov or by contacting the Cleveland Division of Air Quality (Cleveland DAQ).

   The permittee must comply with all applicable requirements of 40 CFR Part 63, Subpart ZZZZ. The permittee shall also comply with all the applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 8 of 40 CFR Part 63, Subpart ZZZZ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart ZZZZ and 40 CFR Part 63, Subpart A.

4. The following emissions units contained in this permit are subject to 40 CFR Part 61, Subpart E, National Emissions Standards for Hazardous Air Pollutants for Mercury: N005, N006, N007, and N008. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at http://www.ecfr.gov or by contacting the Cleveland Division of Air Quality (Cleveland DAQ).

   The permittee must comply with all applicable requirements of 40 CFR Part 61, Subpart E. The permittee shall also comply with all the applicable requirements of 40 CFR Part 61, Subpart A (General Provisions). Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 61, Subpart E and 40 CFR Part 61, Subpart A.

C. Emissions Unit Terms and Conditions

1. B002, Boiler # 2

Operations, Property and/or Equipment Description:

69 MMBtu/hr Babcock & Wilcox natural gas fired Boiler (Package Boiler) to produce steam for process and heating equipped with low NOx burners

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-460 issued on 8/14/1979 and modified on 3/20/1981	Particulate emissions shall not exceed 0.03 gr/dscf. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 and 3745-17-10(B)(1).
b.	OAC rule 3745-31-05(A)(3) PTI 13-2375 issued on 6/3/1992	NOx emissions shall not exceed 0.15 lb/MMBtu of actual heat input. See b)(2)b. and c)(2) below.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from stack shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb of particulate per MMBtu of actual heat input.
e.	OAC rule 3745-18-06(A)	Fuel burning equipment are exempt from this rule during any calendar day in which natural gas is the only fuel burned. See b)(2)a. below.

(2) Additional Terms and Conditions

a. OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit when burning only natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions: a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet. Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

b. This emissions unit shall be equipped with low NOx burners.

c) Operational Restrictions

(1) The permittee shall only burn natural gas in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1)]

(2) The maximum heat input from emissions units B002 and B003 combined shall not exceed 93 MMBtu/hr as a daily average.

If the permittee operates emissions units B002 and B003 at a heat input rate that exceeds the combined maximum heat input limitation for these units, such an exceedance shall be treated as a single exceedance of the combined limitation for B002 and B003 and not as two separate exceedances.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-2375]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall maintain daily records of the following information for B002 and B003 combined:

a. the amount of natural gas burned (ft^3/day);

b. the number of hours of operation (hours/day);

c. the total daily heat input (MMBtu/day) calculated by multiplying the natural gas usage in cubic feet/day by the assumed heat content of natural gas (1000 Btu/ft^3) and by 0.000001 MMBtu/Btu; and

d. the average hourly heat input (MMBtu/hr) calculated by dividing the value from d)(2)c. (MMBtu/day) above by d)(2)b. (hours/day).

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify each exceedance of the combined heat input limitation for emission units B002 and B003. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Section A. Standard Terms and Conditions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emissions Limitation:</u>
Particulate emissions shall not exceed 0.03 gr/dscf.

<u>Applicable Compliance Method:</u>
If required, compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-460]

b. <u>Emissions Limitation:</u>
NOx emissions shall not exceed 0.15 lb/MMBtu of actual heat input

<u>Applicable Compliance Method:</u>
Compliance may be demonstrated by dividing the emission factor for natural gas combustion (127 lbs of NOx/MMft^3, based on emission test performed in 1997) by the conversion factor (1000 MMBtu/MMft^3).

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emissions Limitation:
Visible particulate emissions from the stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:
Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-460]

d. Emissions Limitation:
Particulate emissions shall not exceed 0.020 lb of particulate per MMBtu of actual heat input.

Applicable Compliance Method:
Compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulate/mmcf) by the conversion factor (1000 MMBtu/mmcf).

If required, compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) Compliance with the heat input limitation in c)(2) shall be based on the record keeping in d)(2).

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) This emissions unit was installed in June 1979.

2. B003, Boiler # 3

Operations, Property and/or Equipment Description:

92.88 MMBtu/Hr Nebraska natural gas fired boiler to produce steam for process and space heating equipped with low NOx burners

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-2375 issued on 06/03/1992 and modified on 2/18/1993	NOx emissions shall not exceed 0.15 lb of NOx/MMBtu of actual heat input and 61.02 tons/yr. Particulate emissions shall not exceed 8.14 tons/yr. Visible particulate emissions shall not exceed 5 percent opacity, as a six-minute average, except for one six-minute period every hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1) and 40 CFR Part 60 Subpart Dc. See b)(2)a. and c)(2) below.
b.	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb of particulate/MMBtu of actual heat input.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-18-06(A)	Fuel burning equipment are exempt from this rule during any calendar day in which natural gas is the only fuel burned. See b)(2)b. below.
e.	40 CFR Part 60 , Subpart Dc [In accordance with 40 CFR this emissions unit is a small industrial-commercial-institutional steam generating unit subject to the emission limitations/control measures specified in this section.]	See B.2. above and d)(2) below.
f.	40 CFR 60.1-19	Subpart A – General Provisions in 40 CFR 60.1-19.

(2) Additional Terms and Conditions

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

b. OAC rule 3745-18-06(A) does not establish sulfur dioxide emission limitations for this emissions unit when burning only natural gas as fuel. However, OAC rule 3745-18-06(A) requires that the natural gas being combusted meet certain fuel quality restrictions: a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet. Because the natural gas being burned in this emissions unit is the standard, pipeline quality natural gas supplied to industrial, commercial, and residential users throughout the State, it is assumed that it meets the fuel quality restrictions; and no monitoring, record keeping or reporting requirements are necessary to ensure ongoing compliance with OAC rule 3745-18-06(A).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1)]

(2) The maximum heat input from emissions units B002 and B003 combined shall not exceed 93 MMBtu/hr as a daily average.

If the permittee operates emissions units B002 and B003 at a heat input rate that exceeds the combined maximum heat input limitation for these units, such an exceedance shall be treated as a single exceedance of the combined limitation for B002 and B003 and not as two separate exceedances.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-2375]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall maintain daily records of the following information for B002 and B003 combined:

a. the amount of natural gas burned (ft^3/day);

b. the number of hours of operation (hours/day);

c. the total daily heat input (MMBtu/day) calculated by multiplying the natural gas usage in cubic feet/day by the assumed heat content of natural gas (1000 Btu/ft^3) and by 0.000001 MMBtu/Btu; and

d. the average hourly heat input (MMBtu/hr) calculated by dividing the value from d)(2)c. (MMBtu/day) above by d)(2)b. (hours/day).

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify each exceedance of the combined heat input limitation for emission units B002 and B003. The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Section A. Standard Terms and Conditions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:
NOx emissions shall not exceed 0.15 lb per MMBtu of actual heat input.

Applicable Compliance Method:
Compliance may be demonstrated by dividing the emission factor for natural gas combustion (127 lbs of NOx/MMcf, based on emission test performed in 1997) by the conversion factor (1000 MMBtu/MMcf).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-2375]

b. Emissions Limitation:
NOx emissions shall not exceed 61.02 tons/yr

Applicable Compliance Method:
The ton/year limit was established by multiplying 0.15 lbNOx/MMBtu by the maximum capacity of the boiler (92.88 MMBtu/hr) then multiply by 8760 hours/year and divide by 2000 lbs/ton. Therefore, provided compliance is demonstrated with the lb/MMBtu limitation, compliance will also be demonstrated with the ton/year limit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-2375]

c. Emissions Limitation:
Particulate emissions shall not exceed 8.14 tons/year

Applicable Compliance Method:
The ton/year limit was established by multiplying 0.020 lb PE/MMBtu by the maximum capacity of the boiler (92.88 MMBtu/hr) then multiply by 8760 hours/year and divide by 2000 lbs/ton. Therefore, provided compliance is demonstrated with the lb/MMBtu limitation, compliance will also be demonstrated with the ton/year limit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-2375]

d. Emissions Limitation:
Visible particulate emissions from the stack shall not exceed 5 percent opacity as a six-minute average, except for one six-minute period every hour.

Applicable Compliance Method:
Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-2375]

e. Emissions Limitation:
Particulate emissions shall not exceed 0.020 lb per MMBtu of actual heat input.

Applicable Compliance Method:
Compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulate/MMcf) by the conversion factor (1000 MMBtu/MMcf).

If required, compliance shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-2375]

(2) Compliance with the heat input limitation in c)(2) shall be based on the record keeping in d)(2).

g) Miscellaneous Requirements

(1) This emissions unit was installed in December 1991.

3. Emissions Unit Group -Emergency Electrical Generators: B004, B005, B006, B007, B008, B009

EU ID	Operations, Property and/or Equipment Description
B004	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 1
B005	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 2
B006	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 3
B007	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 4
B008	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 5
B009	2000 kW No. 2 oil, low-sulfur fuel driven emergency electrical generator No. 6

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-04742 issued on 8/22/2008	0.72 lb/hour of PE/PM_{10} emissions 35.25 lbs/hour and 25 tons/year of NOx emissions 3.58 lbs/hour of CO emissions 0.67 lb/hour of OC emissions 9.97 lbs/hour of SO_2 emissions
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(5)(b)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-18-06(G)	0.5 pound of sulfur dioxide per MMBtu actual heat input.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD and Nonattainment NSR.	See b)(2)a., b)(2)b., and c)(2) below.
f.	40 CFR Part 63 Subpart ZZZZ (40 CFR 63.6580 to 63.6675) In accordance with 40 CFR 63.6585, this emissions unit is a stationary internal combustion engine (ICE) subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines.	The existing emergency stationary compression ignition (CI) reciprocating internal combustion engine (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ.
g.	40 CFR 63.6603 Table 2d #4 to Subpart ZZZZ	Must comply with the maintenance / operational requirements from the NESHAP for existing area source CI emergency RICE.

(2) Additional Terms and Conditions

a. The total, combined mass emissions from emissions units B004, B005, B006, B007, B008 and B009, as a 12-month rolling average, shall not exceed the following:

PE/PM_{10} 0.75 ton/year

NOx 36.91 tons/year

CO 3.75 tons/year

OC 0.70 ton/year

SO_2 10.44 tons/year

b. The total NOx emissions for each individual emissions unit (generator) shall not exceed 25 tons/year.

c. The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

Applicable Tables from Part 63, Subpart ZZZZ	Compliance requirements in Table 2d #4; continuous compliance in Table 6 #9; general provision from Subpart A in Table 8.
40 CFR 63.6603	Maintain compliance with operational limitations in Table 2d #4 (inspection and maintenance requirements) to Part 63 Subpart ZZZZ.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the CI RICE, as identified in Table 8 to Subpart ZZZZ.
40 CFR 63.6675	The RICE shall meet the definition of an emergency stationary RICE in order to be considered an emergency engine and subject to the requirements for an emergency RICE.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart ZZZZ].

c) Operational Restrictions

(1) The permittee shall use only diesel fuel with a sulfur content of not more that 0.5% by weight in the engine and generator.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-04742]

(2) The maximum cumulative annual operating hours for B004-B009 shall not exceed 2094 hrs/yr, based upon a rolling, 12-month summation of the operating hours.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-04742]

(3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(e)	Operate & maintain RICE according to mfg. instructions and develop a facility maintenance plan for the RICE that meets the requirements of Subpart ZZZZ Table 2d #4.
40 CFR 63.6625(f)	Install a non-resettable hour meter by compliance date.
40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.
40 CFR 63.6625(i)	Oil analysis program, option to extend the oil change frequency.

40 CFR 63.6640(f)	The emergency RICE is limited to 100 hours/year for maintenance checks and readiness testing and may be operated up to 50 hours/year in non-emergency situations which are counted towards the 100 hours provided for maintenance and testing. The 50 hours per year cannot be used for peak shaving or to generate income to supply power to an electric grid, but can include a maximum of 15 hours/year as part of a demand response program if the regional transmission organization determines there are emergency conditions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart ZZZZ].

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information:

a. the operating hours for each individual emissions unit (generator) each month;

b. the cumulative operating hours of B004-B009 each month;

c. the rolling, 12-month summation of the operating hours for each individual emissions unit (generator); and

d. the rolling, 12-month summation of the cumulative operating hours for B004-B009.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

(2) For each day during which the permittee burns a fuel other than diesel fuel the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit. The permittee shall also maintain documentation on the sulfur content of all fuels received.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

(3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

40 CFR 63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor that the RICE is operating. Must use all valid data (not recorded during malfunctions, repairs, or required quality assurance or control activities) in calculations used to report emissions or operating levels.

40 CFR 63.6655(f)	Maintain records of the hours of operation in emergency operations, non-emergency operations, and in maintenance checks and readiness testing, as recorded through the non-resettable hour meter. If the RICE is used for demand response, records of the notification of the emergency and the time of operation, as part of the demand response, is to be maintained.
40 CFR 63.6655(a)	Keep records of: 1. each notification and report submitted to comply with Subpart ZZZZ; 2. the occurrence and duration of each malfunction of the RICE; and 3. corrective actions taken during each period of malfunction to minimize emissions and restore normal operations.
40 CFR 63.6640(a) and 40 CFR 63.6655(d)	Keep the records required in #9 of Table 6 to Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6655(e)	Records of maintenance and inspections conducted in order to demonstrate compliance with Table 2d and to demonstrate that the RICE was operated and maintained according to the facility's maintenance plan.
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart ZZZZ].

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality (Cleveland DAQ) which identify all exceedances of the rolling, 12-month limitation on the hours of operation. These reports shall be submitted within 30 days after the deviation occurs. The reports shall identify:

a. the probable cause of such deviations; and

b. any corrective actions or preventative measures which have been or will be taken to remedy the deviations; or

c. if no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

(2) The permittee shall submit deviation (excursion) reports to the Cleveland DAQ that identify each day when a fuel other than diesel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

(3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(4) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

40 CFR 63.6640(b);	Submit a report of each instance in which the operational requirements in Table 2d were not met.
40 CFR 63.6640(e)	Submit in the deviation (excursion) report each instance in which the applicable requirements in Table 8 to Subpart ZZZZ, the general provisions from Subpart A, were not met.
40 CFR 63.6640(f)	Submit any deviation from the requirements for emergency RICE identified in 40 CFR 63.6640(f) in the deviation (excursion) report.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63 Subpart ZZZZ].

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.

<u>Applicable Compliance Method:</u>

Compliance with the above visible emission limitation shall be determined through performance testing using Method 9 of 40 CFR, Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

b. Emission Limitation:

0.72 lb PE/PM_{10} per hour

Applicable Compliance Method:

If required, compliance shall be determined by performing a stack test using Methods 1-5 and 201 or 201a of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

c. Emission Limitation:

35.25 lbs/hour of NO_x emissions

Applicable Compliance Method:

If required, compliance shall be determined by performing a stack test using Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

d. Emission Limitation:

25 tons/year of NOx emissions

Applicable Compliance Method:

The tons/year limitation was developed by multiplying the lb/hour by the operating schedule of 1418 hours/year for this emissions unit, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation as long as the permittee does not exceed 1418 hours of operation annually for each individual emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

e. Emission Limitation:

3.58 lbs/hour of CO emissions

Applicable Compliance Method:

If required, compliance shall be determined by performing a stack test using Methods 1-4, and 10 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

f. Emission Limitation:

0.67 lb/hour of OC emissions

Applicable Compliance Method:

If required, compliance shall be determined by performing a stack test using Methods 1-4, and 25 or 25a of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

g. Emission Limitation:

0.5 pound of sulfur dioxide per MMBtu actual heat input and 9.97lbs/hr of SO_2 emissions.

Applicable Compliance Method:

If required, compliance shall be determined by performing a stack test using Methods 1-4, and 6, 6A, 6B or 6C as specified in 40 CFR Part 60, Appendix A and 40 CFR 60.46.

Compliance with the lb/MM Btu limitation may be determined in accordance with OAC rule 3745-18-04(F)(2) as follows:

$ER = [(1 \times 10^6) / H] \times D \times S \times 1.974$

where:

ER = the emission rate in pounds of sulfur dioxide per MM Btu;

H = the heat content of the liquid fuel in Btu per gallon;

D = the density of the liquid fuel in pounds per gallon; and

S = the decimal fraction of sulfur in the liquid fuel.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

h. Emission Limitation:

0.75 ton/year of PE/PM_{10} emissions from units B004-B009 combined per rolling, 12-month period;

36.91 tons/year of NO_x emissions from units B004-B009 combined per rolling, 12-month period;

3.75 tons/year of CO emissions from units B004-B009 combined per rolling, 12-month period;

0.70 ton/year of OC emissions from units B004-B009 combined per rolling, 12-month period; and

10.44 tons/year of SO_2 emissions from units B004-B009 combined per rolling, 12-month period.

Applicable Compliance Method:

The tons/year limitations were developed by multiplying the lb/hour by the maximum operating schedule of 2094 combined hours/year, and dividing by 2000 pounds/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitation as long as the permittee does not exceed 2094 hours of operation annually.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04742]

g) Miscellaneous Requirements

(1) Emissions units B004-B007 and B009 were installed in June 2006. Emissions unit B008 was installed in June 2007.

4. Emissions Unit Group -Multiple Hearth Incinerators: N005, N006, N007, N008

EU ID	Operations, Property and/or Equipment Description
N005	Multiple Hearth Incinerator # 1, 3.6 dry sludge tons/hour (rated capacity) equipped with a venturi/impingement scrubber.
N006	Multiple Hearth Incinerator # 2, 3.6 dry sludge tons/hour (rated capacity) equipped with a venturi/impingement scrubber.
N007	Multiple Hearth Incinerator # 3, 3.6 dry sludge tons/hour (rated capacity) equipped with a venturi/impingement scrubber.
N008	Multiple Hearth Incinerator # 4, 3.6 dry sludge tons/hour (rated capacity) equipped with a venturi/impingement scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A) PTI 13-324 issued on 4/5/1978	The requirements of this rule include compliance with the requirements of 40 CFR Part 61, Subpart E and OAC rule 3745-17-07(A) and OAC rule 3745-17-09.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emission from the stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-09(B)	Particulate emission shall not exceed 0.10 pound per one hundred pounds of dry material charged.
d.	OAC rule 3745-17-09(C)	These emissions units shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 61 , Subpart E [In accordance with 40 CFR these emissions units incinerate or dry wastewater treatment plant sludge and are subject to the emission limitations/control measures specified in this section.]	Mercury emissions shall not exceed 3200 grams per 24-hour period. See B.4. above.
f.	40 CFR 61.01-19	Subpart A – General Provisions in 40 CFR 61.01-19.
g.	40 CFR Part 64 Compliance Assurance Monitoring (CAM)	See c)(1) through c)(4), d)(1),

(2) Additional Terms and Conditions

a. There are no applicable SO_2 emission limitations under OAC chapter 3745-18 for these emissions units.

b. These emissions units are not subject to the Beryllium NESHAP, 40 CFR Part 61 Subpart C, because the sewage sludge processed in these emissions units does not contain any "beryllium containing waste". As defined in 40 CFR 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61 Subpart C). See e)(3) below.

c) Operational Restrictions

(1) The pressure drop across the venturi/impingement scrubber shall be continuously maintained within the range of 10 to 30 inches of water at all times while the emission unit is in operation. Compliance with this operational restriction shall be based on a daily average. The time encompassing the startup and shutdown of the incinerator shall not be counted towards this daily average.

[Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 64]

(2) The venturi/impingement scrubber water flow rate shall be continuously maintained within the range of 250 to 800 gallons per minute. Compliance with this operational restriction shall be based on daily average of the gallons per minute flow rate. The time period encompassing the startup and shutdown of the incinerator shall not be counted towards this daily average.

[Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 64]

(3) The permittee shall minimize emissions when the pressure exceeds safe levels and/or when critical equipment fails by stopping the biosolids feed to the incinerators when the cap on the emergency relief stack opens.

[Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 64]

(4) The permittee shall inspect the seal around each of the emergency relief stack caps on an annual basis.

[Authority for term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 64]

d) Monitoring and/or Recordkeeping Requirements

(1) The CAM plan for these emissions units have been developed for particulate emissions. The CAM performance indicators for particulate emission are: the pressure drop across the venturi/impingement scrubber, the venturi/ impingement scrubber water flow rate, periods of time when the cap on the emergency relief stack is open and biosolids are being fed to the incinerator, and an annual inspection of the cap seal on each emergency relief stack.

The CAM performance indicator range as measured by the venturi/impingement scrubber pressure drop is specified in c)(1). When the pressure drop readings are outside of the indicator range specified in c)(1), corrective action (including, but not limited to, an evaluation of the emissions unit and the control device) will be required.

The CAM performance indicator range as measure by the venturi/ impingement scrubber water flow rate is specified in c)(2). When the pressure drop readings are outside of the indicator range specified in c)(2), corrective action (including, but not limited to, an evaluation of the emissions unit and the control device) will be required.

The CAM performance indicator, periods of time when the cap on the emergency relief stack is open and biosolids are being fed to the incinerator, is specified in c)(3). In the event the pressure exceeds safe levels and/or when critical equipment fails, the permittee shall verify that the emergency relief stack cap is properly closed before restarting the biosolids feed to the incinerator.

The CAM performance indicator, annual inspection of the seal around the cap on each emergency relief stack is specified in c)(4). The permittee shall record the dates and observations made during the annual inspection of each of the emergency relief stack caps.

Upon detecting an excursion of any of the particulate emission indicator ranges listed above, the owner or operator shall restore operation of the emissions unit (including the control devices) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion. Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as thorough response by the computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range.

If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made under 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) consistent with the requirements of 40 CFR Part 64.8.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

(2) The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the venturi/impingement scrubber and the venturi/impingement scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(3) The permittee shall collect and record the following information each day:

a. the average hourly pressure drop across the venturi/impingement scrubber, in inches of water;

b. the average hourly venturi/impingement scrubber water flow rate, in gallons per minute; and

c. the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emission unit was in operation.

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained within the ranges specified in c)(1) and c)(2):

a. the pressure drop across the venturi/impingement scrubber; and

b. theventuri/impingement scrubber water flow rate.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(2) The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Section A. Standard Terms and Conditions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(3) The permittee shall submit an annual statement that, to the best of its knowledge, the sewage sludge processed in these emissions units does not contain any "beryllium containing waste". As the basis for this statement, the permittee shall annually review the latest version of the Ohio Toxic Release Inventory to confirm that there is no facility located within the permittee's service area that reported a release of beryllium or beryllium containing compounds and discharged its wastewater to this facility.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(4) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(C)(1)]

(5) If the results of monitoring or record keeping data indicate that the particulate emission limitations may have been exceeded, the permittee shall submit the results of that data, and document any corrective action taken to restore operation of the emissions unit, or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The reports shall be submitted in accordance with Standard Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined through visible emissions observations performed in accordance with Method 9 of 40 CFR, Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:
Particulate emissions shall not exceed 0.1 pound per 100 pounds of any material charged.

Applicable Compliance Method:
Compliance with the above particulate emission limitation shall be determined by test methods performed in accordance with 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-01(B)(12).

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitation:
Mercury emissions shall not exceed 3200 grams per 24-hour period.

Applicable Compliance Method:
The permittee shall conduct, or have conducted, sludge analyses in accordance with the following requirements:

i. the sludge analysis shall be conducted annually;

ii. the sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24-hour period.

iii. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: 40 CFR, §61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

A comprehensive written report on the results of each annual sludge analysis shall be signed by the persons responsible for the tests and submitted to the Cleveland Division of Air Quality (Cleveland DAQ) 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 Cleveland DAQ.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) These emissions units were installed in June 1965.