



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

6/18/2015

Certified Mail

Facility ID: 0627010056
Permit Number: P0089258
County: Gallia

John Hendricks
General James M. Gavin Power Plant
1 Riverside Plaza
Columbus, OH 43215-2373

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, Gallipolis Daily Tribune. 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 Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138

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 Ohio EPA DAPC, Southeast District Office at (740)385-8501.

Sincerely,

A handwritten signature in cursive script that reads "Michael E. Hopkins".

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-SEDO; Kentucky; West Virginia

PUBLIC NOTICE

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: HClerk@epa.ohio.gov

Draft Title V Permit Renewal

General James M. Gavin Power Plant

7397 N. St Rt #7, Attn: D. E. Workman, Cheshire, OH 45620-0271

ID#: P0089258

Date of Action: 6/18/2015

PermitDesc: Title V renewal permit for the General James M. Gavin Power Plant..

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 ID # or: Jessica Kuenzli, Ohio EPA DAPC, Southeast District Office, 2195 Front Street, Logan, OH 43138. Ph: (740)385-8501



Statement of Basis
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

Statement of Basis For Air Pollution Title V Permit

Facility ID:	0627010056
Facility Name:	General James M. Gavin Power Plant
Facility Description:	Power Generating Plant
Facility Address:	7397 N. St Rt #7, Cheshire, OH 45620-0271
Permit #:	P0089258, Renewal
This facility is subject to Title V because it is major for: <input type="checkbox"/> Lead <input checked="" type="checkbox"/> Sulfur Dioxide <input checked="" type="checkbox"/> Carbon Monoxide <input type="checkbox"/> Volatile Organic Compounds <input checked="" type="checkbox"/> Nitrogen Oxides <input checked="" type="checkbox"/> Particulate Matter X 10 microns <input type="checkbox"/> Single Hazardous Air Pollutant <input type="checkbox"/> Combined Hazardous Air Pollutants <input checked="" type="checkbox"/> Maximum Available Control Technology Standard(s) <input checked="" type="checkbox"/> GHG <input checked="" type="checkbox"/> 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.	None.
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	N/A



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

modification per OAC rule 3745-77-08(C)(3)	
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)	N/A
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.	CAM is applicable to emission units B003 and B004 for particulate matter.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2	3745- 77-07(A)(13)		Insignificant emissions units with applicable requirements are required to be included in the Title V permit.
B.3		40 CFR Part 63, Subpart DDDDD	Boiler MACT
B.4		40 CFR Part 63, Subpart ZZZZ	Stationary Reciprocating Internal Combustion Engines MACT
B.5		40 CFR Part 63,	Electric Gas Utility MACT



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

		Subpart UUUUU	
B.6.	3745-109		State CAIR rule
B.7.		40 CFR Part 64	Compliance Assurance Monitoring (CAM) is applicable to emission units B003 and B004, for particulate matter.

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										
F001	No visible fugitive PE Baghouse/bin vent PE shall not exceed 0.010 gr/dscf	31-05(D)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT total enclosures and venting to fabric filter baghouse. M/R – daily inspections and logs. Rp – semi-annual deviation reports. ET – if required.
F001	PM ₁₀ shall not exceed 18.75 tons per rolling 12 months PM _{2.5} shall not exceed 2.84 tons per rolling 12 months		ORC 3704.03(T)	N	Y	Y	N	Y	Y	Y	N	N	OR – mount of coal processed shall not exceed 13,000,000 tons per rolling 12 months. M/R – Monthly records and logs. Rp – Quarterly deviation reports. ET – if required.



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

F001	No VE's 10% or greater		40 CFR Part 60, Subpart Y	N	N	N	N	N	N	N	N	N	The opacity limit specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(D).
F002	VE's shall not exceed 20%opacity as a 3-minute average. Wind Erosion: No VE's except for 13 13 minutes during any 60 minute observation period.	31-05(A)(3)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT treat material handling operations and storage piles with wet suppression and/or other suitable dust suppressants to ensure compliance. M/R – daily inspections and logs. Rp – quarterly deviation reports. ET – if required.
F003	No VE's from paved roadways except for 1 minute during any 60 minute observation period. No VE's from unpaved roadways except for 3 minutes during any 60 minute observation period.	31-05(A)(3)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT treat paved and unpaved roadways with wet suppression and/or other suitable dust suppressants to ensure compliance. M/R – daily inspections and logs. Rp – quarterly deviation reports. ET – if required.
F004	PE from the exhaust stack shall not	31-05(A)(3)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT compliance with the grain loading emission limitation or no VE's. M/R – daily inspections and logs.



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

	exceed 0.030 gr/dscf or no VE's												Rp – quarterly deviation reports. ET – if required.
F005	PE from the exhaust stack shall not exceed 0.030 gr/dscf or no VE's	31-05(A)(3)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT compliance with the grain loading emission limitation or no VE's. M/R – daily inspections and logs. Rp – quarterly deviation reports. ET – if required.
F006	PE shall not exceed 1.34 lbs/hr and 5.87 tpy. No VE's from the exhaust stack and no fugitive PE	31-05(A)(3)		N	N	Y	N	Y	Y	Y	N	N	Basis – BAT compliance with the lbs/hr and tpy through one-time calculations and compliance with the no VE limit for stack and fugitive emission points. M/R – daily inspections and logs. Rp – quarterly deviation reports. ET – if required.
F007	None.	77		N	N	N	N	N	N	N	N	N	This emissions unit is an existing stationary source located in a non-Appendix A area, therefore not subject to OAC rule 3745-31-05(A)(3) per OAC rule 3745-31-05(A)(3)(a)(i) which states, "BAT is not required if the air contaminant source was installed on or before January 1, 1974".
B001, B002	Visible PE shall not exceed 20% opacity as a 6-minute average except as provided by rule.	17-07(A)		N	N	N	N	N	N	Y	N	N	Et – VE's if required.
B001, B002	Particulate emissions shall not exceed 0.20 lb/mmBtu actual heat input.	17-10(B)(1)		N	N	N	N	N	N	Y	N	N	ET- If required, 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

B001, B002	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu	18-06(D)		N	Y	Y	N	Y	Y	Y	N	N	M-Records of sulfur content and heat content from supplier. R- Records of sulfur content and heat content from supplier. Rp-Deviation excursion reporting within 30 days and 45 days after occurrence. ET-If required 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
B001, B002	Applicable Emission Limits in Tables 1&2; Work practice standard in Table 3 and operating limits in Table 4 to Subpart DDDDD of 40 CFR Part 63.	N	40 CFR Part 63, Subpart DDDDD	N	N	N	N	N	Y	N	Y	N	M- 63.7555 and 63.10(b), 63.7530(h),63.7505(c), 63.7510(b); 63.7530(c), 63.7540(a)(2), 63.7530(c), 63.7540(a)(3) and (a)(5), 63.7540(a)(4) and (a)(6), 63.7541. OR- 63.7515(d), 63.7540(a)(10), 63.7530(h), 63.7505(c), 63.7510(b), and 63.7530(c). Rp- 63.7495(d), 63.7545, 63.7530(f), 63.7550(a) and (b); 63.7550(c) through (h), 63.7545(e); 63.7515(g)**; 63.7530(f); and OAC rule 3745-15-04(A), 63.7521(b), 63.7522(g), 63.7530(e), 63.7530(h), 63.7533(d), 63.7540(b) ET- 63.7510(a), 63.7530(a) and (b), 63.7510(a), 63.7530(a) and (b) 63.7530(b) and (c), 63.7510(b), 63.7515(a) through (d), 63.7515(b) 63.7515(f), 63.7520(a) through (c), 63.7520(d), 63.7520(e) 63.7521(a) through (h), 63.7530(c), 63.7522(a) through (g), 63.7522(h), (i), and (k).
B003, B004	None.		3745-31-05(A)(3)	N	N	N	N	N	N	N	N	N	OAC rule 3745-31-05(A)(3) did not apply to this modification issued 08/12/1992 (PTI #06-3146), based on OAC rule 3745-31-01(QQQ)(1)(b). Installation of a FGD scrubber unit on this emissions unit as an additional control to the ESP. No BAT limits were established in this permit based on OAC rule 3745-31-01(QQQ)(1)(b). The SO ₂ emission limit included in the table (7.41 lbs/million Btu) is contained in OAC rule 3745-18-33(D) and is still an applicable limit. However, because FGD control was installed, this limit should be adjusted to be equal to the modeled emissions rate included in the application for PTI 06-3146. The boilers cannot be operated without the FGD controls in service. In order to correct this issue we could modify PTI 06-3146 to include the modeled limit or change the rule to reflect the correct SO ₂ emissions rate. (Dispersion modeling using the 7.41 lbs/million Btu limit has predicted an exceedance of the NAAQS)
B003, B004	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by	17-07(A)		N	N	N	N	N	N	Y	N	N	Et – VE's if required.



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

	rule.												
B003, B004	PE shall not exceed 0.10 lb/MMBtu, actual heat input.	17-10 (C)(1)		N	N	Y	N	Y	Y	Y	N	N	M&R-Quarterly deviation reporting and the use of PM continuous monitoring system. ET- Twice during permit term.
B003, B004	SO ₂ shall not exceed 7.41 lbs/MMBtu, actual heat input.	18-33 (D)		N	N	Y	N	Y	Y	Y	N	N	M/R Fuel sampling and analysis Rp Quarterly deviation reports ET if required
B003, B004	Comply with either limit: 0.03 lb/MMBtu (PM) or 0.30 lb/MWh (PM); OR 5.0E-5 lb/MMBtu or 5.0E-1 lb/GWh of Total non-Hg HAP metals; Individual HAP metals: Listed in this permit under 1.b)(1)l.	N	40 CFR Part 63, Subpart UUUUU (Table 2: 40 CFR Part 63.9991)	N	N	Y	N	Y	Y	Y	N	N	M- 63.10032-63.10033 R-63.10030-63.10031 ET-63.10000 General Requirements. 63.10005-Initial Compliance. 63.10006-Subsequent performance tests or tune-ups. 63.1007- Methods and procedures for performance test. 63.10009-Emissions averaging. 63.10010- Monitoring, installation, operation, and maintenance requirements. 63.10020-63.10023-Continuous compliance requirements.
B003 B004	NA		40 CFR Part 64(Compliance Assurance Monitoring CAM))	N	N	Y	N	Y	Y	Y	N	N	M – CAM Plan submitted to continuously monitor opacity from the stack. - Monitoring of ESP electrical data / ESP inspections R – Keep opacity/COM data Rp – quarterly deviation reporting ET – PE testing requirements Corrective Actions: 1. Continuous Opacity Monitoring: implemented in response to any significant increase in stack opacity above normal operating levels. 2. Monitoring of ESP electrical data: implemented at any time TR set voltage and current levels are found to be operating outside normally expected ranges. 3. ESP inspections: implemented at any time inspections of the ESP reveal operations and/or equipment problems are found to



Statement of Basis
 General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

														<p>be significantly impacting proper operations.</p> <p>4. Particulate emissions testing: implemented at any time testing shows particulate matter emission levels approaching or exceeding the 0.10 lb/MMBtu limit.</p> <p>Pursuant to 40 CFR 64.2(b), CAM will not apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart UUUUU after the compliance date in that rule.</p>
B003 B004	Malfunctions of air pollution control equipment	15-06 (B)(1)		N	N	N	N	N	N	N	N	N	Y	<p>The permittee has established a Preventative Maintenance and Malfunction Abatement Plan for the Plant FGD Absorber System (PMMAP) (last revised 02/07/2012). The PMMAP identifies the FGD system's major components:</p> <ol style="list-style-type: none"> 1. Lime preparation system 2. Absorber system 3. Primary dewatering system 4. Secondary dewatering system <p>Additional FGD support systems</p> <ol style="list-style-type: none"> 1. Mist Eliminator wash system 2. Sump system <p>The PMMAP identifies:</p> <ol style="list-style-type: none"> 1. Inspection schedule and surveillance protocol 2. Data collection and observation schedule 3. Inventory replacement parts 4. Regular maintenance schedules/activities



DRAFT

**Division of Air Pollution Control
Title V Permit
for
General James M. Gavin Power Plant**

Facility ID:	0627010056
Permit Number:	P0089258
Permit Type:	Renewal
Issued:	6/18/2015
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
General James M. Gavin Power Plant

Table of Contents

Authorization	1
A. Standard Terms and Conditions	2
1. Federally Enforceable Standard Terms and Conditions	3
2. Monitoring and Related Record Keeping and Reporting Requirements.....	3
3. Reporting of Any Exceedence of a Federally Enforceable Emission Limitation or Control Requirement Resulting From Scheduled Maintenance.....	6
4. Risk Management Plans	7
5. Title IV Provisions	7
6. Severability Clause	7
7. General Requirements	7
8. Fees.....	8
9. Marketable Permit Programs.....	8
10. Reasonably Anticipated Operating Scenarios	9
11. Reopening for Cause	9
12. Federal and State Enforceability	9
13. Compliance Requirements	9
14. Permit Shield	11
15. Operational Flexibility.....	11
16. Emergencies.....	11
17. Off-Permit Changes	12
18. Compliance Method Requirements	12
19. Insignificant Activities or Emissions Levels.....	13
20. Permit to Install Requirement.....	13
21. Air Pollution Nuisance	13
22. Permanent Shutdown of an Emissions Unit	13
23. Title VI Provisions	13
24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only	14
25. Records Retention Requirements Under State Law Only.....	14
26. Inspections and Information Requests	14
27. Scheduled Maintenance/Malfunction Reporting For State-Only Requirements.....	15
28. Permit Transfers	15



29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations	15
30. Submitting Documents Required by this Permit	16
B. Facility-Wide Terms and Conditions.....	17
3. 40 CFR Part 63, Subpart DDDDD (Boiler MACT) Requirements.....	19
C. Emissions Unit Terms and Conditions	22
1. F001, Coal Handling System.....	23
2. F002, Flue Gas Desulfurization (FGD) Landfill Material Handling Operations and Storage Piles	31
3. F003, Roadways & Parking.....	36
4. F004, Lime Handling Systems	40
5. F005, Ash Handling System.....	43
6. F006, Trona SO3 Mitigation System	46
7. F007, Coal Storage Piles	50
8. Emissions Unit Group -Auxiliary Boilers: B001,B002,.....	52
<i>(Authority for term: 40 CFR 63.7522)</i>	75
9. Emissions Unit Group - Main Boilers: B003, B004,	84



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0627010056
Facility Description: Power Generating Plant
Application Number(s): A0020508, A0037476, A0049864
Permit Number: P0089258
Permit Description: Title V renewal permit for the General James M. Gavin Power Plant.
Permit Type: Renewal
Issue Date: 6/18/2015
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0089257

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

General James M. Gavin Power Plant
7397 N. St Rt #7
Attn: D. E. Workman
Cheshire, OH 45620-0271

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

Ohio EPA DAPC, Southeast District Office
2195 Front Street
Logan, OH 43138
(740)385-8501

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 Ohio EPA DAPC, Southeast District Office. 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

Craig W. Butler
Director



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

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 recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

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

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

- (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 submitted scheduled 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 Ohio EPA DAPC, Southeast District Office. 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 Ohio EPA DAPC, Southeast District Office 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 Ohio EPA DAPC, Southeast District Office 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 permit except 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 Ohio EPA DAPC, Southeast District Office 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 Ohio EPA DAPC, Southeast District Office) 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 intermittent consistent 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 Ohio EPA DAPC, Southeast District Office 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 Ohio EPA DAPC, Southeast District Office 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, no emissions unit identified in this permit that has been certified 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 Requirements Under 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 the Ohio EPA DAPC, Southeast District Office.
- 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 Ohio EPA DAPC, Southeast District Office. 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 Requirements Under 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 Ohio EPA DAPC, Southeast District Office 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 Ohio EPA DAPC, Southeast District Office 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.



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056

Effective Date: To be entered upon final issuance

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 of an 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 Ohio EPA DAPC, Southeast District Office, 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.



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

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 insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit to install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21, and/or 40 CFR Part 60 or 63:

EU ID	Operations, Property and/or Equipment Description
P001	Allis Chalmers 275 Horsepower Firefighting Water Pump - PBR 02642 issued 6/9/2006 40 CFR Part 63, Subpart ZZZZ
P002	Caterpillar 300 Horsepower Firefighting Water Pump – PBR 02643 issued 6/9/2006 40 CFR Part 63, Subpart ZZZZ
P003	Emergency Generator- PBR 11386 issued 11/04/2013 40 CFR Part 63, Subpart ZZZZ
P004	Emergency Diesel Fire Pump, Unit 1 – PBR 11422 issued 11/22/2013 40 CFR Part 63, Subpart ZZZZ
P005	Emergency Diesel Fire Pump, Unit 2 – PBR 11422 issued 11/22/2013 40 CFR Part 63, Subpart ZZZZ
G001	Gasoline Dispensing Facility. OAC rule 3745-31-05(A)(3) (PTI # 06-3827 issued Final 7/28/1993)
B005	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B006	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B007	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B008	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B009	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989) (PBR11053)
B010	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989) (PBR11053)
B011	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989) (PBR11053)
B012	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B013	2.5MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-2511 issued Final 9/27/1989)
B014	3.125MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-3146 issued Final 8/12/1992)
B015	3.125MMBtu#2 fuel oil Space Heater. OAC rule 3745-31-05(A)(3) (PTI # 06-3146 issued Final 8/12/1992)
T004	2,385 Gallon Ignition Fuel Oil Tank. OAC rule 3745-31-05(A)(3) (PTI # 06-3780 issued Final 6/16/1993)



(Authority for term: 3745-77-07(A)(13))

3. 40 CFR Part 63, Subpart DDDDD (Boiler MACT) Requirements

The permittee is subject to the applicable emission limitation(s) and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the general and/or other requirements specified in 40 CFR Parts 63.7480 through 63.7575 (including the Table(s) and Appendix(ices) referenced in Subpart DDDDD).

The following emissions units in this permit are subject to the aforementioned requirements: B001 and B002.

(Authority for term: 40 CFR Part 63)

40 CFR Part 63, Subpart A, General Provisions

The permittee is subject to the applicable requirements of 40 CFR Part 63, Subpart A (General Provisions), as set forth in Table 10 of Subpart DDDDD.

The following emissions units in this permit are subject to the aforementioned requirements: B001 and B002.

(Authority for term: 40 CFR Part 63)

4. The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart ZZZZ: P001, P002, P003, P004 and P005.

The existing emergency or limited use compression ignition (CI) reciprocating internal combustion engine(s) (RICE), less than or equal to 500 brake horse power and located at a major source for hazardous air pollutants (HAPs), are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63, Subpart ZZZZ. The existing stationary CI RICE's, P001, P002, P004 and P005, installed before 6/12/06, shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than October 13, 2013. P003 shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ upon installation.

(Authority for term: 40 CFR Part 63)

5. The following emissions units located at this facility are subject to all applicable requirements as outlined in OAC rule 3745-31-03(A)(4)(b):

EU ID	Operations, Property and/or Equipment Description
P001	Allis Chalmers 275 Horsepower Firefighting Water Pump - PBR 02642 issued 6/9/2006 40 CFR Part 63, Subpart ZZZZ
P002	Caterpillar 300 Horsepower Firefighting Water Pump – PBR 02643 issued 6/9/2006 40 CFR Part 63, Subpart ZZZZ
P003	Emergency Generator- PBR 11386 issued 11/04/2013 40 CFR Part 63, Subpart ZZZZ
P004	Emergency Diesel Fire Pump, Unit 1 – PBR 11422 issued 11/22/2013 40 CFR Part 63, Subpart ZZZZ

EU ID	Operations, Property and/or Equipment Description
P005	Emergency Diesel Fire Pump, Unit 2 – PBR 11422 issued 11/22/2013 40 CFR Part 63, Subpart ZZZZ

(Authority for term: OAC rule 3745-77-07(A)(13))

- The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants from Coal and oil-fired Electric Utility Steam Generating Units: B003 and B004.

The complete MACT requirements, including the MACT General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://efcr.gpoaccess.gov> or by contacting the Ohio EPA Southeast District Office.

(Authority for term: 40 CFR Part 63)

- The permittee shall ensure that any CAIR NO_x, SO₂, or NO_x ozone season units complies with the requirements of OAC chapter 3745-109, which includes submitting timely permit applications. The permittee shall ensure that the affected emissions units comply with those requirements as outlined in the permit application submitted as required by OAC rules 3745-109-03, 3745-109-10 and 3745-109-16 for the affected emissions units.

The permittee shall also comply with any subsequent federally mandated programs that may replace the CAIR program affecting electric generating facilities.

Note: Ohio EPA DAPC has completed proposed rule amendments for OAC chapter 3745-14, specifically, OAC rule 3745-14-01 and OAC rule 3745-14-06, which facilitated the transition of the affected units from OAC chapter 3745-14 into the federal Clean Air Interstate Rule (CAIR) program which began with the 2009 control periods. This began the process of “sunsetting” the parts of OAC chapter 3745-14 which were no longer needed as a result of Ohio’s CAIR rules (OAC chapter 3745-109).

On April 29th, 2014, the United States Supreme Court upheld EPA’s Cross-State Air Pollution Rule (CSAPR) regulations commonly known as the “Transport Rule” and reversed the 2012 decision by the U.S. Court of Appeals for the District of Columbia invalidating the rules. At this time, CAIR remains in place and no immediate action from States or affected sources is expected. The CAIR allowances for affected units and requirements of the CAIR rule will continue pending further guidance from USEPA on implementing CAIR.

(Authority for term: OAC rules 3745-109 and OAC rule 3745-77-07(A)(5))

- Cross-State Air Pollution Rule (CSAPR)-subject units at this Title V source are subject to CSAPR applicable requirements. These applicable requirements will be included in the Title V permit terms and conditions prior to issuance of the Final Title V permit based on the May 13, 2015 U.S. EPA guidance



document titled "Title V Permit Guidance and Template for the Cross-State Air Pollution Rule" available at: [http://www.epa.gov/crossstaterule/pdfs/CSAPR Title V Permit Guidance.pdf](http://www.epa.gov/crossstaterule/pdfs/CSAPR_Title_V_Permit_Guidance.pdf)

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

9. The Ohio EPA, Southeast District Office has approved the Compliance Assurance Monitoring (CAM) plan submitted by the permittee, pursuant to 40 CFR Part 64, for emissions units B003 and B004. The permittee shall comply with the provisions of the plan (as specified in Part C – Terms and Conditions for Emissions Units) during any operation of the aforementioned emissions units.

Pursuant to 40 CFR 64.2(b), CAM will not apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart UUUUU, upon the date that emissions units B003 and B004 become subject to this rule.

(Authority for term: 40 CFR Part 64)



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions

1. F001, Coal Handling System

Operations, Property and/or Equipment Description:

Coal Handling System, river to pile (9 transfers), including the barge unloader, conveying, load-out, and transfer points.

- 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(D) (PTI P0111468 issued Final on 5/8/2013)	There shall be no visible particulate emissions (PE) of fugitive dust emitted from the material handling, conveying/transfer points and/or the area immediately above the capture systems serving this emissions unit. The PE from the baghouse and/or bin vent filters associated with this emissions unit shall not exceed 0.010 grain per dry standard cubic feet of the exhaust gases, or there shall be no visible PE from the baghouses and/or bin vent filters. See c)(1).
b.	ORC 3704.03(T)	Particulate matter emissions of 10 microns in diameter or less (PM-10) shall not exceed 18.75 tons/rolling, 12-month summation. Particulate matter emissions of 2.5 microns in diameter or less (PM-2.5) shall not exceed 2.84 tons/rolling, 12-month summation.
c.	OAC rule 3745-17-07(B)(5)	This emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).



Effective Date: To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-08(B)	This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08. Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.
e.	40 CFR Part 60, Subpart Y [40 CFR 60.254(b)(1)]	The owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent (%) opacity or greater. The opacity limit specified pursuant to this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(D).
f.	40 CFR 60.1-19 (40 CFR 60.1(a))	The provisions of Subpart A apply to the owner or operator of any stationary source which contains an affected facility that commenced construction or modification after the date of publication in 40 CFR Part 60 that is applicable to that facility.

(2) Additional Terms and Conditions

- a. The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Material Handling, Conveying/Transfer Points

North Barge Unloader Bucket to RN
 Conveyor RN to R1N
 Conveyor R1N to 12N
 Conveyor 12N to 24
 South Barge Unloader Bucket to RS
 Conveyor RS to 1RS
 Conveyor 1RS to 2RS
 Conveyor 2RS to 24
 Conveyor 24 to 46
 Conveyor 46 to 67
 Conveyor 67 to Radial Stacker
 Rail Car Dump to T12
 Conveyor T12 to T23
 Conveyor T23 to 64
 Conveyor 64 to 46
 Under pile Feeders to 7N or 7S



Conveyor 7N or 7S to 77N or 77S
Conveyor 77N or 77S to 77BN or 77BS
Conveyor 77BN or 77BS to Crushers
Crushers to 78N or 78S
Conveyor 78N or 78S to 8A
Conveyor 8A to AB
Conveyor AB to Tripper Conveyors
Conveyor 78N or 78S to 89
Conveyor 89 to 9F
Conveyor 9F to FD
Conveyor FD to DC
Conveyor DC to Tripper Conveyor

REF Material Handling System (Subject to Part 60 Subpart Y)

Transfer from Existing Conveyors 77BS or 77BN to short conveyor
Transfer from short conveyor to crusher feed conveyor
Transfer from crusher feed conveyor to crushers
Transfer from crushers to pug mill feed conveyor
Transfer from pug mill feed conveyor to pug mill
Transfer from pug mill to product conveyor
Transfer from product conveyor to Existing Conveyor 78N or 78S

Additional REF Material Handling System - Additive Handling

Pneumatic transfer from truck to silo
Transfer from silo to day bin
Transfer from day bin to screw conveyor
Transfer from screw conveyor to pug mill

- b. The permittee shall employ best available control measures for the coal and REF material handling operations listed above, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee shall perform the following control measures to ensure compliance: maintain sufficient moisture to prevent fugitive dust, treat the coal with chemical stabilization/dust suppressants at sufficient frequencies, employ bin vent filters and maintain enclosures. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- c. For each coal and REF Material Handling System operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the coal and REF Material Handling System operations until further observation confirms that use of the control measures is unnecessary.

- d. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit are appropriate and sufficient to satisfy the best available control measures of ORC 3704.03(T).

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

c) Operational Restrictions

- (1) The amount of coal processed through the REF Material Handling System shall not exceed 13,000,000 tons per year, based upon a rolling, 12-month summation. The permittee has sufficient records to demonstrate compliance with the 12-month rolling production limitation.

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

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation, for any visible particulate emissions from the material handling, conveying/transfer points listed in b)(2)a. and from the area immediately above the capture system serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

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

- (2) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the amount of coal processed through the REF Material Handling System, in tons;
 - b. the rolling, 12-month summation of the amount of coal processed through the REF Material Handling System, in tons; and
 - c. the rolling, 12-month PM-10 and PM-2.5 emission summations, in tons (calculated in accordance with the methods and procedures as outlined in permit application number A0045823as submitted on October 10, 2012 and the information recorded in d)(2)b above.

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

- (3) The owner or operator of a coal preparation and processing plant that commenced construction, reconstruction, or modification after April 28, 2008, shall maintain in a logbook (written or electronic) on-site and make it available upon request. The logbook shall record the following:
 - a. The manufacturer's recommended maintenance procedures and the date and time of any maintenance and inspection activities and the results of those activities. Any variance from manufacturer recommendation, if any, shall be noted.
 - b. The date and time of periodic coal preparation and processing plant visual observations, noting those sources with visible emissions along with corrective actions taken to reduce visible emissions. Results from the actions shall be noted.
 - c. The amount and type of coal processed each calendar month.
 - d. The amount of chemical stabilizer or water purchased for use in the coal preparation and processing plant.
 - e. Monthly certification that the dust suppressant systems were operational when any coal was processed and that manufacturer's recommendations were followed for all control systems. Any variance from the manufacturer's recommendations, if any, shall be noted.

(Authority for term: 40 CFR Part 60, Subpart Y)

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible emissions of fugitive dust were observed from the material handling, conveying/transfer points listed in b)(2)a. and the area immediately above the capture system serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible emissions.

These reports shall be submitted to the Ohio EPA Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

- (2) The permittee shall submit quarterly deviation (excursion) reports which identify the following:
 - a. all exceedances of the rolling, 12-month restriction on the amount of coal processed through the REF Material handling System; and
 - b. all exceedances of the rolling, 12-month emissions limitations for PM-10 and PM-2.5.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

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

- (3) For the purpose of reports required under section 60.7(c), any owner operator subject to the provisions of this subpart also shall report semiannually periods of excess emissions as follows:

a. all 6-minute average opacities that exceed the applicable standard.

(Authority for term: 40 CFR Part 60, Subpart Y)

- (4) The owner or operator of an affected facility shall submit the results of initial performance tests to the Administrator or delegated authority, consistent with the provisions of section 60.8. The owner or operator who elects to comply with the reduced performance testing provisions of sections 60.255(c) or (d) shall include in the performance test report identification of each affected facility that will be subject to the reduced testing. The owner or operator electing to comply with section 60.255(d) shall also include information which demonstrates that the control devices are identical.

(Authority for term: 40 CFR Part 60, Subpart Y)

- (5) After July 1, 2011, within 60 days after the date of completing each performance evaluation conducted to demonstrate compliance with this subpart, the owner or operator of the affected facility must submit the test data to EPA by successfully entering the data electronically into EPA's WebFIRE data base available at <http://cfpub.epa.gov/oarweb/index.cfm?action=fire.main>. For performance tests that cannot be entered into WebFIRE (*i.e.*, Method 9 of appendix A-4 of this part opacity performance tests) the owner or operator of the affected facility must mail a summary copy to United States Environmental Protection Agency; Energy Strategies Group; 109 TW Alexander DR; mail code: D243-01; RTP, NC 27711.

(Authority for term: 40 CFR Part 60, Subpart Y)

- (6) Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing).



Reports are to be sent to:

Ohio EPA, Southeast District Office
Division of Air Pollution Control
2195 Front Street
Logan, Ohio 43138

(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 section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

There shall be no visible PE of fugitive dust emitted from the material handling, conveying/transfer points and/or the area immediately above the capture systems serving this emissions unit.

Applicable Compliance Method:

If required, compliance with the visible PE limitation for the fugitive dust identified in this permit shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").

b. Emissions Limitation:

PE from baghouses and/or bin vent filters shall not exceed 0.010 grain per dry standard cubic feet.

Applicable Compliance Method:

If required, compliance shall be determined in accordance with Test Methods 1-5 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").

c. Emissions Limitations:

PM-10 shall not exceed 18.75 tons/rolling, 12-month summation
PM-2.5 shall not exceed 2.84 tons/rolling, 12-month summation

Applicable Compliance Method:

The permittee shall demonstrate compliance with the PM-10 and PM-2.5 emission limitations above in accordance with the record keeping requirements in section d)(2).



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

d. Emissions Limitation:

The owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10% opacity or greater.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the opacity limitation above in accordance with USEPA Method 9 of 40 CFR Part 60, Appendix A.

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

g) Miscellaneous Requirements

(1) None.



2. F002, Flue Gas Desulfurization (FGD) Landfill Material Handling Operations and Storage Piles

Operations, Property and/or Equipment Description:

FGD landfill material handling operations and storage piles, wind erosion, and miscellaneous fugitive emissions.

- 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 #06-3764 issued Final 1/27/1994)	<p><i>Material Handling Operations:</i></p> <p>Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.</p> <p><i>Wind erosion:</i></p> <p>There shall be no visible emissions of fugitive dust, except for 13 minutes during any 60-minute observation period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.</p> <p>See b)(2)b. through b)(2)g.</p>
b.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	Exempt. See b)(2)a.

(2) Additional Terms and Conditions

- a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to this fugitive emissions unit. Also, this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
- b. The permittee shall employ best available control measures on the FGD load-in and load-out operations associated with the FGD landfill and FGD storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the FGD load-in and load-out operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.
- c. The above-mentioned control measures shall be employed for each FGD load-in and load-out operation of each storage pile if the permittee determines, as a result of an inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that the use of the measures is unnecessary.
- d. The permittee shall employ best available control measures on all FGD landfill surface operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the FGD landfill surface operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance.
- e. The permittee shall employ best available control measures for wind erosion from working surfaces associated with the FGD landfill for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the FGD landfill surface operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The above-mentioned control measures shall be employed for the FGD landfill surface operations if the permittee determines, as a result of an inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that the use of the measures is unnecessary.



- g. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit are appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

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

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>each load-in, load-out operation</u>	<u>minimum inspection frequency</u>
all	daily (when in operation)
<u>each working surface and/or storage pile</u>	<u>minimum inspection frequency</u>
all	daily (when in operation)

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

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal working conditions. No inspection shall be necessary for a material handling operation that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

(Authority for terms: OAC rule 3745-77-07(C)(1))

- (4) The information required in d)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

(Authority for terms: OAC rule 3745-77-07(C)(1))

- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(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 section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average. *(For Material Handling Operations)*

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitations listed above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

- b. Emissions Limitation:

There shall be no visible emissions of fugitive dust, except for 13 minutes during any 60-minute observation period. *(For Wind Erosion)*



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitations listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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

- g) Miscellaneous Requirements
 - (1) None.



3. F003, Roadways & Parking

Operations, Property and/or Equipment Description:

Plant and Landfill roadways and parking areas.

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.	ORC 3704.03 (T) (PTI P0111468 issued Final on 5/8/2013)	There shall be no visible particulate emissions (PE) from any paved roadway or parking area except for one minute during any 60-minute period. There shall be no visible PE from any unpaved roadway or parking area except for three minutes during any 60-minute period. See b)(2)a. through b)(2)e.
b.	OAC rule 3745-17-07(B)(5)	This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
c.	OAC rule 3745-17-08(B)	This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08. Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures on all paved and unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved and unpaved roadways and parking areas by application of chemical



stabilization/dust suppressants and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.

- b. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for paved and unpaved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- c. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- d. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of ORC 3704.03 (T).

(Authority for terms: OAC rule 3745-77-07(C)(1))

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roadways and parking areas	daily (when in operation)
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
all roadways and parking areas	daily (when in operation)

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

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

- (3) The permittee shall maintain records of the following information:
- the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - the dates the control measures were implemented; and
 - on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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

- (4) The information required in d)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
- each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

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

- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(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 section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

There shall be no visible PE from any paved roadway or parking area except for one minute during any 60-minute period.

There shall be no visible PE from any unpaved roadway or parking area except for three minutes during any 60-minute period.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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

g) Miscellaneous Requirements

(1) None.



4. F004, Lime Handling Systems

Operations, Property and/or Equipment Description:

Lime handling system - Plant lime handling, mixing, crushing, and storage system (barge to storage to FGD mix).

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 06-3146 issued Final on 8/12/1992)	Particulate emissions (PE) from the exhaust stack shall not exceed 0.030 gr/dscf of exhaust gases, or no visible emissions. See b)(2)a.
b.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	Exempt. See b)(2)b.

(2) Additional Terms and Conditions

a. Fugitive emissions from conveying, transfer points, crushing, mixing, and storage of lime shall be collected sufficiently to eliminate visible PE to the extent possible with good engineering design, and vented to control equipment designed to meet the grain loading emission limitation specified above, or no visible emissions.

b. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to this fugitive emissions unit. Also, this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

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

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouses' stacks serving the lime storage silos associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

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

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the non-stack egress points associated with this emissions unit (i.e., any lime pneumatic conveying systems or crushing or mixing operations and the total enclosures used to control the lime during all periods of lime transport). The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions

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

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation reports that (a) identify all days during which any visible PE were observed from the baghouses' stacks serving the lime storage silos associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

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



- (2) The permittee shall submit quarterly deviation reports that (a) identify all days during which for any visible emissions of fugitive dust from the non-stack egress points associated with this emissions unit (i.e., any lime pneumatic conveying systems or crushing or mixing operations and the total enclosures used to control the lime during all periods of lime transport) and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(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 section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

PE from the exhaust stack shall not exceed 0.030 gr/dscf of exhaust gases, or no visible emissions.

Applicable Compliance Method:

If required, compliance with the grain loading emission limitation shall be determined in accordance with Test Methods 1-5 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").

If required, compliance with the no visible particulate emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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

g) Miscellaneous Requirements

- (1) None.



5. F005, Ash Handling System

Operations, Property and/or Equipment Description:

Plant Fly Ash Handling System, Mixing and Storage Systems (Vacuum unloading to storage to FGD waste).

- 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 06-3146 issued Final on 8/12/1992)	Particulate emissions (PE) from the exhaust stack shall not exceed 0.030 gr/dscf of exhaust gases, or no visible emissions. See b)(2)a.
b.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	Exempt. See b)(2)b.

- (2) Additional Terms and Conditions
 - a. Fugitive emissions from conveying, transfer points, mixing, and storage of fly ash shall be collected sufficiently to eliminate visible particulate emissions to the extent possible with good engineering design, and vented to control equipment designed to meet the grain loading emission limitation specified above, or no visible emissions.
 - a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to this fugitive emissions unit. Also, this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

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

c) Operational Restrictions

- (1) The permittee shall comply with the requirements of the Preventative Maintenance and Malfunction Abatement Plan (PMMAP), which was last revised February 7, 2012, for the fly ash storage and silo handling system, and/or any subsequent revisions approved by the Ohio EPA Southeast District Office.

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

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the baghouses' stacks serving the fly ash storage silos associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions.

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

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the non-stack egress points associated with this emissions unit (i.e., any fly ash pneumatic conveying systems or mixing operations, mixing operations and the total enclosures used to control the fly ash during lead-out from the storage silos into trucks and during silo lead-out). The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the location and color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions

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

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation reports that (a) identify all days during which any visible PE were observed from the baghouses' stacks serving the fly ash storage silos associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

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

- (2) The permittee shall submit quarterly deviation reports that (a) identify all days during which for any visible emissions of fugitive dust from the non-stack egress points associated with this emissions unit (i.e., any fly ash pneumatic conveying systems or mixing operations, mixing operations and the total enclosures used to control the fly ash during lead-out from the storage silos into trucks and during silo lead-out) and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

(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 section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

PE from the exhaust stack shall not exceed 0.030 gr/dscf of exhaust gases, or no visible emissions.

Applicable Compliance Method:

If required, compliance with the grain loading emission limitation shall be determined in accordance with Test Methods 1-5 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").

If required, compliance with the no visible particulate emission limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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

g) Miscellaneous Requirements

- (1) None.



6. F006, Trona SO3 Mitigation System

Operations, Property and/or Equipment Description:

Trona Material Handling System (Delivery, storage and material handling of Trona used for SO3 mitigation.)

- 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 06-08073 issued Final on 1/15/2009)	Particulate emissions (PE) shall not exceed 1.34 pounds per hour and 5.87 tons per year. There shall be no visible PE from the control equipment exhaust associated with this emissions unit and no visible fugitive PE from this emissions unit.
b.	OAC rule 3745-17-11(A)	The emissions limitations established pursuant to this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(A)	The emissions limitations established pursuant to this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B) and OAC rule 3745-17-08(B)	Exempt. See b)(2)d.

- (2) Additional Terms and Conditions
 - a. The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - Railcar Unloading into Silos
 - Trona Silo #1
 - Trona Silo #2



Trona Silo #3
Truck Loadout
Transfer from Silo to Day Bin

- b. The permittee shall employ best available control measures on all material handling operations associated with the Trona Handling System for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to control particulate emissions by utilizing total enclosures and bin vent filters to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).
- d. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to this fugitive emissions unit. Also, this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

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

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the control equipment exhaustserving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

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

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, transfer points, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;



- b. the total duration of any visible emission incident; and
- c. any corrective actions taken to eliminate the visible emissions

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

e) Reporting Requirements

- (1) The permittee shall identify the following information in the quarterly deviation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

- a. all days during which any visible PE were observed from the stack serving this emissions unit;
- b. all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, transfer points, etc.) serving this emissions unit; and
- c. any corrective actions taken to eliminate the visible particulate emissions.

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

- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.

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

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitations:

PE shall not exceed 1.34 pounds per hour and 5.87 tons per year.

Applicable Compliance Method:

Compliance with the allowable pounds per hour and the tons per year emissions limitations above shall be based on the following calculations:

Railcar Unloading into Silos:

$$[244.46^* \text{ pounds PE/hour (uncontrolled)}] \times [99.78\% \text{ design control efficiency}] = 0.54 \text{ pound PE/hour (controlled)}$$

Truck Loading from Silos:

$$[51.43^* \text{ pounds PE/hour (uncontrolled)}] \times [99.78\% \text{ design control efficiency}] = 0.11 \text{ pound PE/hour (controlled)}$$



Effective Date: To be entered upon final issuance

Transfer from Silo to Day Silo:

$[244.46^* \text{ pounds PE/hour (uncontrolled)}] \times [99.78\% \text{ design control efficiency}] = 0.54 \text{ pound PE/hour (controlled)}$

Emergency Load-in to Day Silo:

$[68.57^* \text{ pounds PE/hour (uncontrolled)}] \times [99.78\% \text{ design control efficiency}] = 0.15 \text{ pound PE/hour (controlled)}$

Tons particulate emissions/year:

$0.54 \text{ pound PE/hour} + 0.54 \text{ pound particulate emissions/hour} + 0.15 \text{ pound PE/hour} + 0.11 \text{ pound PE/hour} = 1.34 \text{ pounds PE/hour.}$

$1.34 \text{ pounds PE/hour} \times 8760 \text{ hours/year} \times 0.0005 = 5.87 \text{ tons /year}$

If required, compliance with the allowable hourly PE limitation shall be determined according with U.S. EPA test Methods 1 – 5. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

*Uncontrolled emissions estimates from revision to permit to install application received on November 20, 2006.

b. Emissions Limitation:

There shall be no visible PE from the control equipment exhaust serving this emissions unit and no visible fugitive PE from the transfer points.

Applicable Compliance Method:

If required, compliance with the visible PE limitations above shall be demonstrated in accordance with the procedures specified in U.S. EPA test Method 22 of 40 CFR Part 60, Appendix A.

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

g) Miscellaneous Requirements

- (1) None.

7. F007, Coal Storage Piles

Operations, Property and/or Equipment Description:

Coal Storage Piles

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 3745-17-07(B) and OAC rule 3745-17-08(B)	Exempt. See b)(2)a.

(2) Additional Terms and Conditions

a. This facility is not located in an Appendix A area as described in OAC rule 3745-17-08; therefore, OAC rule 3745-17-08(B) does not apply to this fugitive emissions unit. Also, this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

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

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

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



Draft Title V Permit
General James M. Gavin Power Plant
Permit Number: P0089258
Facility ID: 0627010056
Effective Date: To be entered upon final issuance

- a. None.
- g) Miscellaneous Requirements
 - (1) None.



8. Emissions Unit Group -Auxiliary Boilers: B001,B002,

EU ID	Operations, Property and/or Equipment Description
B001	Unit 1 Auxiliary Steam Boiler – Babcock and Wilcox Model No. PFI-3133 distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding Number 4 fuel oil), having a nominal rated capacity of 600 MMBtu/hr.
B002	Unit 2 Auxiliary Steam Boiler – Babcock and Wilcox Model No. PFI-3133 distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding Number 4 fuel oil), having a nominal rated capacity of 600 MMBtu/hr.

- 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 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBtu actual heat input.
c.	OAC rule 3745-18-06(D)	Sulfur dioxide (SO ₂) emissions shall not exceed 1.6 lbs/MMBtu actual heat input.
d.	40 CFR Part 63, Subpart DDDDD (effective date of January 31, 2016) The National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters. (applicability 40 CFR 63.7485; affected source, 40 CFR 63.7490)	The emissions from the boiler(s) shall not exceed the following emission standards or the emissions limitations specified in Table 2 except during startup and shutdown for existing units for the subcategory for units designed to burn liquid fuel and light liquid fuel as identified in the most recent amendment to 40 CFR Part 63, Subpart DDDDD: 130 ppm of carbon monoxide (CO) by volume on a dry basis corrected to 3 percent oxygen or 0.13 lb per MMBtu of steam output or 1.4 lb per MWh; 7.9E-03 lb of particulate matter (PM) per

		<p>MMBtu of heat input; or (6.2E-05 lb per MMBtu) or 9.6E-03 lb per MMBtu of steam output or 1.1E-01 lb per MWh; or (7.5E-05 lb per MMBtu of steam output or 8.6E-04 lb per MWh);</p> <p>1.1E-03 lb of hydrogen chloride (HCl) per MMBtu of heat input or 1.4 E-03 lb per MMBtu of steam output or 1.6E-02 lb per MWh; and</p> <p>2.0E-06 lb of mercury (Hg) per MMBtu of heat input or 2.5E-06 lb per MMBtu of steam output or 2.8E-05 lb per MWh.</p>
e.	40 CFR 63.7500(a)(1) and (2); and 40 CFR 63.7495	Each boiler must meet the applicable emission limits identified in Table 2; the work practice standard in Table 3; and the operating limits in Table 4 to the subpart by the compliance date identified in 40 CFR 63.7495.
f.	40 CFR 63.7510(e); 40 CFR 63.7495(b); and 40 CFR 63.7(a)(2)	An existing boiler shall demonstrate initial compliance with the emission limits in Table 2 to the NESHAP no later than 180 days after the compliance date identified in 40 CFR 63.7495(b).
g.	40 CFR 63.7510(e); 40 CFR 63.7530(e); and 40 CFR Part 63, Subpart DDDDD Table 3	For each existing boiler, an initial tune-up and a one-time energy assessment must be performed by a qualified energy assessor no later than the compliance date identified in 40 CFR 63.7495. The required information for the energy assessment and the frequency of tune-ups is identified in Table 3.
h.	40 CFR 63.7505(a) and (c); and 40 CFR Part 63, Subpart DDDDD Table 3, #5 and #6	Compliance with the emissions standards and operating limits of the NESHAP apply at all times, except during periods of startup and shutdown during which the requirements of Table 3, #5 and #6 apply. Compliance with the emissions limits is demonstrated through: performance testing; fuel analyses; and/or monitoring documented by CMS (CEMS, COMS, and CPMS)*.
i.	40 CFR 63.7540(a)(1); and 40 CFR Part 63, Subpart DDDDD Tables 4 and 8	Continuous compliance with each emission limit, operating limit, and work practice standards in Tables 1 through 3 of the subpart must be demonstrated in accordance with the methods specified in Table 8 to the subpart. Operating above



		the established maximum or below the established minimum operating limit shall constitute a deviation of the operating limits identified in Table 4 of the subpart.
j.	40 CFR Part 63, Subpart DDDDD Table 10	The applicability of the General Provisions in 40 CFR Part 63 Subpart A to boilers subject to Subpart DDDDD are identified in Table 10 to the subpart.
k.	40 CFR 63.7521(a) and (b)	A site-specific fuel monitoring plan must be developed and submitted for each solid, liquid and "gas 2 (other) fuel" to be burned in the boiler, to include the information identified in this paragraph.
l.	40 CFR 63.7505(c); and 40 CFR Part 63, Subpart DDDDD Table 6	Following the initial compliance demonstration, compliance with the emission standards for HCl, Hg may be demonstrated using fuel analysis (instead of a performance test) if the emission rate, calculated according to 40 CFR 63.7530(c), is less than the applicable limit identified in Table 1 or 2. If opting to comply with the standard for TSM, compliance is demonstrated through conducting fuel analysis using the procedures and methods identified in Table 6.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide limitation specified in b)(1)c. above.

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

(2) The permittee shall burn only distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel, or a blend of number 2 fuel oil), but excluding number 4 fuel oil, in this emissions unit.

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

(2) The permittee shall comply with the applicable operational restrictions required under 40 CFR Part 63, Subpart DDDDD, including the following sections (as effective with the compliance date of January 31, 2016):

a.	40 CFR 63.7515(d); 40 CFR 63.7540(a)(10); and 40 CFR Part 63, Subpart DDDDD Table 3, #3	Each boiler greater than or equal to 10 MMBtu/hour is required to have an annual tune-up (no more than 13 months after the previous tune-up) and inspection conducted in accordance with 40 CFR 63.7540(a)(10), which includes measuring the concentration of CO in the effluent gas stream in ppmv and oxygen in volume %, and maintaining a record/report of the results of the inspection and the fuel(s) burned in the boiler during the year.
b.	40 CFR 63.7530(h); and 40 CFR Part 63, Subpart DDDDD Table 3, #5	A boiler subject to emission limits in Tables 2 to Subpart DDDDD, must meet the work practice standard according to Table 3 of this subpart and during startup and shutdown must only follow the work practice standards according to item 5 of Table 3.
c.	40 CFR 63.7525(a); 40 CFR 63.7575; and 40 CFR Part 63, Subpart DDDDD Tables 4 (#9) and Table 8 (#9)	Where using the option to install an oxygen trim system to demonstrate compliance with the CO standard, it shall maintain excess air at the desired level by providing a feedback signal to the combustion air controller. The O ₂ concentration must be maintained at or above the lowest hourly average measured during the most recent performance test (Method 10) demonstrating compliance with the CO limit.
d.	40 CFR 63.7525(a); and 40 CFR Part 63, Subpart DDDDD Tables 4 (#9) and 8 (#9)	Where using the option to install an oxygen analyzer to demonstrate compliance with the CO standard, it shall monitor the O ₂ concentration in the exhaust gases and shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations. The 30-day rolling average oxygen concentration of the stack gas must be maintained at or above the lowest hourly average O ₂ concentration measured during the most recent performance test (Method 10) demonstrating compliance with the CO limit.
e.	40 CFR 63.7525(a); 40 CFR 63.7510(c); 40 CFR 63.8; and	For boilers subject to a CO emission limit and using CO CEMS for compliance, must install, certify, operate, and maintain



Effective Date: To be entered upon final issuance

	40 CFR Part 63, Subpart DDDDD Table 8 (#10)	CO CEMS in accordance with Performance Specification 4, 4A, or 4B of Part 60 Appendix B; and must reduce the 1-hourly averages (corrected to 3% O ₂) to daily averages and calculate the 10-day rolling average CO concentration of the stack gas. The 10-day rolling average CO concentration must be maintained below the applicable CO limits identified in Table 1 or 2 to 40 CFR Part 63, Subpart DDDDD.
f.	40 CFR 63.7500(a)(3)	The boiler and associated air pollution control and monitoring equipment must be operated and maintained in a manner consistent with safety and good air pollution control practices for minimizing emissions.
g.	40 CFR 63.7520(c); and 40 CFR Part 63, Subpart DDDDD Tables 4 (#8) and Table 8 (#10)	The boiler must be operated so as not to exceed 110% of the average operating load recorded during the most recent performance test that demonstrated compliance.
h.	40 CFR 63.7505(c); 40 CFR 63.7510(b); 40 CFR 63.7530(c); and 40 CFR Part 63, Subpart DDDDD Tables 4 (#7) and Table 8 (#8)	Where demonstrating compliance with the HCl, Hg, or TSM emissions standard(s) through fuel analyses, must maintain the fuel type or fuel mixture such that the HCl, Hg, and/or TSM emission rate(s), calculated according to 40 CFR 63.7530(c), less than the applicable limit(s) in Table 1 or 2 of the subpart.
i.	40 CFR 63.7525(l)	For a boiler equipped with CEMS to demonstrate compliance with the Hg standard, the Hg CEMS must be installed, operated, certified, and maintained in accordance with Performance Specification 12A in Appendix B to Part 60. The hourly arithmetic average outlet data shall be reduced to 30-day rolling averages.

(Authority for term: 40 CFR Part 63 and OAC rule 3745-77-07(A)(1))

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

Alternative 1:

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

Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

(Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-04(E)(3) and 3745-18-04(I))

- (2) For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate oil as defined in c)(2) above), 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))

- (3) The permittee shall comply with the applicable monitoring and record keeping required under 40 CFR Part 63, Subpart DDDDD, including the following sections (As effective with the compliance date of January 31, 2016):

a.	40 CFR 63.7555; and 40 CFR 63.10(b)	The records required by the NESHAP are identified in 40 CFR 63.7555 and they must be kept for at least 5 years following the date of the record or report submitted.
b.	40 CFR 63.7530(h); and 40 CRFR	A boiler subject to emission limits in



Effective Date: To be entered upon final issuance

	Part 63, Subpart DDDDD Table 3 (#5)	Tables 2 to Subpart DDDDD, must meet the work practice standard according to Table 3 of this subpart and during startup and shutdown must only follow the work practice standards according to item 5 of Table 3.
c.	40 CFR 63.7525(a); 40 CFR 63.7575; and 40 CFR Part 63, Subpart DDDDD Tables 4 (#9) and 8 (#9)	For boilers subject to a CO emission limit and using the option to install an oxygen trim system, the monitor shall maintain excess air at the desired level by providing a feedback signal to the combustion air controller. The oxygen concentration of the stack gas must be maintained at or above the lowest hourly average O ₂ concentration measured during the most recent performance test (Method 10) demonstrating compliance with the CO limit.
d.	40 CFR 63.7525(a); 40 CFR 63.7575; and 40 CFR Part 63, Subpart DDDDD Tables 4 (#9) and 8 (#9)	For boilers subject to a CO emission limit and using the option to install an oxygen analyzer, it shall be installed, calibrated, and maintained in accordance with the manufacturer's recommendations. The 30-day rolling average oxygen concentration of the stack gas, monitored by O ₂ monitor, must be maintained at or above the lowest hourly average O ₂ concentration measured during the most recent performance test (Method 10) demonstrating compliance with the CO limit.
e.	40 CFR 63.7525(a); 40 CFR 63.8; and 40 CFR Part 63, Subpart DDDDD Table 8 (#10)	For boilers subject to a CO emission limit and using the option to install an CO CEMS, install/operate/maintain CO CEMS in accordance with Performance Specification 4, 4A, or 4B of Part 60 Appendix B; reduce the 1-hourly averages (corrected to 3% O ₂) to daily averages and maintain the 10-day rolling average CO concentration of the stack gas below the lowest hourly average CO concentration measured during the most recent compliant performance test for CO.
f.	40 CFR 63.7535	In order to demonstrate continuous compliance with the requirements of the NESHAP, the required monitoring and data collection systems must be operated at all times the affected source is in operation, except for periods of



Effective Date: To be entered upon final issuance

		monitoring system malfunction, out of control periods, and required monitoring system quality assurance and/or control activities.
g.	40 CFR 63.7541	Following the compliance date for existing sources, the owner/operator demonstrating compliance under the emissions averaging provisions, must demonstrate compliance on a continuous basis by meeting the requirements in this section.
h.	40 CFR 63.7540(a)(2); and 40 CFR 63.7550(c)(2)	Records must be kept of the type and amount of all fuels burned in each boiler during each reporting period, in order to demonstrate that all fuel burned in each unit would either: result in lower emissions of HCl, Hg, or TSM than the applicable emission limit (if demonstrating compliance through fuel analyses) or result in a lower fuel input of Cl, Hg, or TSM than the maximum values calculated during the last performance test (if demonstrating compliance through performance testing).
i.	40 CFR Part 63, Subpart DDDDD Table 8 (#10)	Collect the operating load data or steam generation data every 15 minutes and maintain the operating load such that it does not exceed 110% of the average operating load recorded during the most recent compliance demonstration.
j.	40 CFR 63.7521 and 40 CFR 63.7530(b), and (c)	To establish the maximum HAP input levels, for solid and liquid fuels, a fuel analyses must be conducted for Chlorine (Cl) and mercury (Hg), and TSM if opting to comply with TSM, and for gas 2 fuels a fuel analysis must be conducted for Hg; all in accordance with the site-specific fuel monitoring plan and procedures identified in 40 CFR 63.7521 and Table 6 to the subpart. The maximum Cl, Hg, and TSM input must be calculated in accordance with 40 CFR 63.7530(b). Emission rates, through fuel analysis, for HCl, Hg, and TSM must be calculated in accordance with 40 CFR 63.7530(c) using Equations 10 (for 90th percentile confidence level pollutant concentration), 11 (for HCl), 12 (for Hg) and 13 for (TSM).

k.	40 CFR 63.7540(a)(3) and (a)(5)	If burning a new fuel and compliance with an HCl or Hg emission limit was demonstrated through fuel analyses, the emission rate must be recalculated using Equations 11 and/or 12 of 40 CFR 63.7530 and the recalculated HCl or Hg emission rate must be less than the applicable emission limits.
l.	40 CFR 63.7540(a)(4) and (a)(6)	If burning a new fuel and compliance with the HCl or Hg emission limit was demonstrated through performance testing, the maximum Cl and Hg input must be recalculated using Equations 7 and/or 8 of 40 CFR 63.7530. If the results prove the maximum Cl or Hg input to be greater than the maximum established during the last performance test, a new performance test must be conducted within 60 days of burning the new fuel and new operating limits must be established.
m.	40 CFR 63.7533	If complying with the alternative equivalent steam output-based emission limits, instead of the heat input-based limits in Tables 1 or 2 to the subpart, the owner/operator may take credit for implementing energy conservation measures identified in the energy assessment by establishing a benchmark from which emission reduction credits may be generated. The requirements for documenting and calculating the differences between the established benchmark and reductions from energy conservation are identified in this section.
n.	40 CFR 63.7525(l)	Where demonstrating compliance with the Hg standard using CEMS (or HCl following the approval of a HCl CEMS performance specification), the Hg CEMS must be installed, certified, maintained, and operated in accordance with this paragraph.

(Authority for term: 40 CFR Part 63 and OAC rule 3745-77-07(C)(1))

e) Reporting Requirements

- (1) The permittee shall notify the Ohio EPA Southeast District Office in writing of any record which shows a deviation of the allowable SO₂ emission limitation based upon the calculated SO₂ emission rates from d)(1) above. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days after the deviation occurs.

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

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than distillate oil) was burned in this emission unit. Each report shall be submitted within 30 days after the deviation occurs.

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

- (3) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections (As effective with the compliance date of January 31, 2016):

a.	40 CFR 63.7495(d); 40 CFR 63.7545; and 40 CFR 63.7530(f)	The notification requirements identified in 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (6), 40 CFR 63.9(b) through (h), and 40 CFR 63.7545 shall be submitted to the appropriate district office or local air agency no later than the date identified in 40 CFR 63.7545.
b.	40 CFR 63.7550(a) and (b); and 40 CFR Part 63, Subpart DDDDD Table 9	The owner/operator must submit each compliance report identified in Table 9 to the NESHAP that is applicable to the boiler, either semiannually, annually, or biennially according to the requirements identified in 40 CFR 63.7550(b).
c.	40 CFR 63.7550(c) through (h)	These paragraphs identify the information required to be submitted in the compliance reports.
d.	CFR 63.7545(e); CFR 63.7515(g)**; CFR 63.7530(f); and OAC rule 3745-15-04(A)	A comprehensive written report on the results of performance tests and initial fuel analyses shall be submitted within 60 days after the completion of the test in the Notification of Compliance Status Report. Each report shall verify the unit has not changed or shall provide documentation of the revised parameters established during the performance test. However, Ohio rules require the testing results (signed by the person responsible for the tests) to be submitted to the appropriate Ohio EPA District Office or local air



Effective Date: To be entered upon final issuance

		agency within 30 days following completion of the test(s).
e.	40 CFR 63.7522(g)	If demonstrating compliance for existing units through emissions averaging, an implementation plan must be submitted in accordance with this paragraph no later than 180 days before demonstrating compliance using the emission averaging option.
f.	40 CFR 63.7530(e)	The Notification of Compliance Status report must include a signed certification that an energy assessment was completed according to Table 3 to the subpart and that it is an accurate depiction of the facility.
g.	40 CFR 63.7530(h)	If you own or operate a unit subject to emission limits in Tables 1 or 2 or 11 through 13 to this subpart, you must meet the work practice standard according to Table 3 of this subpart.
h.	40 CFR 63.7533(d)	If establishing emissions credits for implementing energy conservation measures, the owner/operator must submit an Implementation Plan (to the appropriate district office or local air agency) for the energy conservation measures to be implemented and it must contain the information contained in this paragraph.
i.	40 CFR 63.7540(b)	Each instance in which a boiler does not meet each/any applicable emission limit and/or operating limit in Tables 1 through 4 to the subpart, the owner/operator must report each as a deviation from the requirements of the Part 63 Subpart DDDDD, in accordance with 40 CFR 63.7550.
j.	40 CFR 63.7521(b)	The site-specific fuel analysis plan must be submitted no later than 60 days before the date of the intended initial compliance demonstration and it shall include the information identified in this paragraph.
k.	40 CFR 63.7550(h)	Within 60 days after the date of completing, results of relative accuracy test audit data and performance test data must be submitted electronically to EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is



		accessed through EPA's Central Data Exchange (CDX) (http://www.epa.gov/cdx). Performance test data must be submitted in the file format generated through EPA's Electronic Reporting Tool (ERT) at: http://www.epa.gov/ttn/chief/ert/index.html .
--	--	--

** For affected sources (as defined in §63.7490) that have not operated since the previous compliance demonstration and more than one year has passed since the previous compliance demonstration, you must complete the subsequent compliance demonstration, if subject to the emission limits in Tables 1, 2, or 11 through 13 to this subpart, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete a subsequent tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) and the schedule described in §63.7540(a)(13) for units that are not operating at the time of their scheduled tune-up.

(Authority for term: 40 CFR Part 63 and OAC rule 3745-77-07C)(1))

f) Testing Requirements

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

a. Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance 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).

b. Emissions Limitation:

PE shall not exceed 0.020 lb/MMBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable mass emission rate for particulates may be determined by dividing an emission factor of particulate per 1000 gallons of oil combusted by the heat content of the oil (in MMBtu/1000 gallons) as determined through the fuel analysis required in d)(2) above. This emission factor is



specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (09/98).

If required, the permittee shall demonstrate compliance with the allowable mass emission rate for PE while burning distillate oil (number 1 and number 2 fuel oil, kerosene and diesel fuel through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

c. Emissions Limitation:

SO₂ emissions shall not exceed 1.6 lbs/MMBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable SO₂ emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

If required, the permittee shall demonstrate compliance with the SO₂ emission limitation above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

c. Emissions Limitation:

130 ppm of CO by volume on a dry basis corrected to 3 percent oxygen, 0.13 lb per MMBtu of steam output or 1.4 lb per MWh;

7.9E-03 lb of PM per MMBtu of heat input; or (6.2E-05 lb per MMBtu) or 9.6E-03 lb per MMBtu of steam output or 1.1E-01 lb per MWh; or (7.5E-05 lb per MMBtu of steam output or 8.6E-04 lb per MWh);

0.0011 lb of HCl per MMBtu of heat input; and

2.0E-06 lb of Hg per MMBtu of heat input.

Applicable Compliance Method:

The permittee shall conduct an initial performance test within 180 days after the compliance date to demonstrate compliance with the limitations in the NESHAP. The appropriate tests methods from Table 5 to Subpart DDDDD shall be conducted.

Performance testing must be conducted on an annual basis in accordance with 40 CFR 63.7520 and completed no more than 13 months after the previous performance test, with the exception of dioxin/furan which is only requires testing during the initial performance demonstration. If after 2 consecutive years the emissions of a pollutant are at or below 75% of the emissions limit for that pollutant and there have been no changes to the boiler, performance testing may revert to every 3 years, or no more than 37 months after the previous test, for the

pollutant. If the pollutant exceeds 75% of the applicable limit, testing reverts back to annual. The average operating load must be recorded during each performance test.

The performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The percent load of the boiler maintained during the performance test shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load and the estimated percent load shall be included in the notification of compliance.

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

Method 1, Appendix A, Part 60 to select the sampling ports locations and number of traverse points;

Method 2, 2F, or 2G, Appendix A, Part 60 to determine the velocity and volumetric flow-rate of the stack gases;

Method 3A or 3B, Appendix A, Part 60, or other method allowed per Table 5 of the Subpart to determine the oxygen and/or carbon dioxide concentrations, excess air, and dry molecular weight of the stack gases;

Method 4, Appendix A, Part 60 to measure the moisture content of the stack gases;

Method 5 or 17 Appendix A, Part 60 for the PE emission concentration (positive pressure fabric filters shall use Method 5D);

Method 10 Appendix A-4, Part 60 to measure the CO emission concentration;

Method 26 or 26A Appendix A-8, Part 60 to measure HCl.

Method 29, 30A, or 30B Appendix A-8, Part 60 to measure Hg or Method 101A at 40 CFR Part 61, Appendix B of this chapter, or ASTM Method D6784.

Sampling sites shall be located at after the control device and prior to any releases to the atmosphere.

- e. To determine compliance with the emission limitations from Subpart DDDDD, and contained in this permit, the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of Appendix A to Part 60 shall be used to convert the measured PM concentrations from the above performance test methods, to pounds per million Btu heat input emission rates using the F-factors.
 - (i) Each performance test shall consist of three separate runs using the applicable test method and as specified in 40 CFR 63.7(e)(3). Each run shall last at least one hour and shall be conducted under the conditions specified in the Methods and must meet the minimum sampling times and volumes specified in Tables 1 or 2, as applicable. The arithmetic mean of

the results of the three runs shall be used for the purpose of determining compliance with the limitations in Subpart DDDDD and permit.

- (ii) The test(s) shall be conducted while the boiler is operating at its maximum normal operating load while burning the mixture(s) of fuel containing the highest content of chlorine and Hg. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of the performance test. The permittee shall make available to the Ohio EPA, Division of Air Pollution Control, Central Office or the appropriate District Office or local air agency, upon request, any records that may be necessary to determine the conditions of the performance tests.
- (iii) In order to establish the site-specific operating limits as required by 40 CFR 63.7520(b)(3), the permittee shall collect and record the appropriate parameters for the control device, in accordance with Table 7 to the subpart, every 15 minutes during each performance test. The lowest hourly average operating parameter shall be calculated by computing the hourly averages using all of the 15-minute readings taken during each performance test. The minimum operating parameter(s) shall be the lowest hourly average measured during the most recent performance test demonstrating compliance and each shall be established in accordance with Table 7 to Subpart DDDDD.
- (iv) The permittee shall notify the appropriate Ohio EPA, Division of Air Pollution Control, District Office or local air agency in writing and at least 30 calendar days before a performance test is initially scheduled to begin, of plans to conduct a performance test. If a performance evaluation of the COMS is to be conducted at the same time, the Division of Air Pollution Control's Central Office shall also be notified. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the monitored operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Division of Air Pollution Control's refusal to accept the results of the emission test(s).
- (v) Personnel from the appropriate Ohio EPA, Division of Air Pollution Control, District Office, local air agency, or Central Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of each emissions unit and the testing procedures provide a valid characterization of the emissions from each emissions unit.
- (vi) A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and shall be submitted to the appropriate Ohio EPA, Division of Air Pollution Control, District Office or local air agency within 30 days following completion of the test(s).



- (vii) In the event the permittee is unable to conduct the performance test on the date specified in the notification requirement due to unforeseeable circumstances beyond control, the permittee shall notify the appropriate Ohio EPA, Division of Air Pollution Control, District Office or local air agency as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled. This notification of delay in conducting the performance test shall not relieve the permittee of legal responsibility for compliance with any other applicable provisions of this part or with any other applicable federal, State, or local requirement.
- (viii) The permittee shall maintain performance test results and any other data needed to determine emissions from each emissions unit for a minimum of 5 years after the testing is conducted or after the data is collected. These records shall be made available for inspection by the Director of the Ohio EPA or his/her representative, upon request.

(Authority for term: 40 CFR 63.6(h)(7)(iii), 40 CFR 63.7, 40 CFR 63.10(d), 40 CFR 63.7500(a), 40 CFR 63.7515, 40 CFR 63.7520, 40 CFR 63.7530(c)(4), 40 CFR 63.7545(d), 40 CFR 63.7575, 40 CFR 63, Subpart DDDDD Tables 5 and 7, for Tables 1 or 2 and OAC 3745-15-04(A))

- (2) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 63, Subpart DDDDD, including the following sections (As effective with the compliance date of January 31, 2016):

a.	40 CFR Part 63, Subpart DDDDD Tables 2	Table 2 to the NESHAP contains the emission limits for existing boilers and the sampling volume or test run duration required for performance testing
b.	40 CFR 63.7510(a); and 40 CFR 63.7530(a) and (b)	Initial compliance with 40 CFR Part 63, Subpart DDDDD shall be demonstrated through performance testing according to 40 CFR 63.7520 and Table 5; by conducting a fuel analysis for each type of fuel burned according to 40 CFR 63.7521 and Table 6; by establishing operating limits (Table 4) according to 40 CFR 63.7530 and Table 7; and/or by conducting CMS performance evaluations according to 40 CFR 63.7525 in conjunction with the stack test.
c.	40 CFR 63.7510(c)	Where using CO CEMS for compliance, the initial compliance demonstration for CO includes a performance test conducted according to Table 5, using Method 10 concurrently with the performance evaluation of the CO CEMS according to 40 CFR 63.7525(a).

d.	40 CFR 63.7515(a) through (d); and 40 CFR Part 63, Subpart DDDDD Table 4 #8	Performance testing must be conducted on an annual basis in accordance with 40 CFR 63.7520 and completed no more than 13 months after the previous performance test. If after 2 consecutive years the emissions of a pollutant are at or below 75% of the emissions limit for that pollutant and there have been no changes to the boiler or control equipment (that could increase emissions), performance testing may revert to every 3 years, or no more than 37 months after the previous test, for the pollutant. If the pollutant exceeds 75% of the applicable limit in Table 1 or 2, testing reverts back to annual. The average operating load must be recorded during each performance test.
e.	40 CFR 63.7520(a) through (c)	Performance tests must be conducted and a site-specific stack test plan developed according to 40 CFR 63.7 and Table 5; and operating limits must be established as identified in Table 7 to the NESHAP. The performance test must be conducted at representative operating load conditions while burning the fuel or mixture of fuels that contain the highest content of the pollutant being tested (this may require more than 1 performance test).
f.	40 CFR 63.7520(d)	Each performance test shall include 3 separate test runs as specified in 40 CFR 63.7(e)(3) and each test run must comply with the minimum sampling time or volumes as specified in Tables 1 or 2 to the NESHAP.
g.	40 CFR 63.7515(b)	Existing boilers demonstrating compliance for any pollutant using emission averaging must conduct performance tests annually for the boilers in the averaging group.
h.	40 CFR 63.7520(e)	The F-Factor methodology and equations found in Sections 12.2 and 12.3 of EPA Method 19 (in Appendix A of 40 CFR Part 60) shall be used to convert the measured PM, HCl, and Hg concentrations from the performance test to pounds/MMBtu heat input.

i.	40 CFR 63.7522(a) through (g)	Where there are more than one existing boiler in the same subcategory (40 CFR 63.7499), as an alternative to meeting the emission limits identified in Table 2 to the NESHAP for PM, HCl, and/or Hg for each boiler individually, compliance may be demonstrated through emissions averaging for the existing units in the same subcategory. The average emissions cannot be more than 90% of the applicable limit calculated according to the requirements in 40 CFR 63.7522. New units cannot be included in this compliance option.
j.	40 CFR 63.7530(b) and (c)	Where using fuel analyses to demonstrate compliance with HCl, Hg, or TSM limits, the maximum fuel pollutant input levels entering the boiler shall be established using the fuel type(s) or mixture(s) that has/have the highest content of each, Cl, Hg, and/or TSM. The maximum Cl, Hg, and/or TSM input (in lbs/MMBtu) shall be calculated as required in 40 CFR 63.7530(b) and the 90th percentile confidence level pollutant concentration (in lbs/MMBtu) must be calculated as required in 40 CFR 63.7530(c).
k.	40 CFR 63.7530(b)(3)	The minimum operating parameters must be established during the performance test and/or where using a bag leak detection system, it must be installed in accordance with 40 CFR 63.7525(j).
l.	40 CFR 63.7510(b)	Compliance with the Table 1 or Table 2 emission limits for HCl, Hg, and TSM may be demonstrated through fuel analyses according to 40 CFR 63.7521 and Table 6 and by establishing operating limits according to 40 CFR 63.7530 and Table 8 to the NESHAP.
m.	40 CFR 63.7515(e)	If you demonstrate compliance with the mercury, HCl, or TSM based on fuel analysis, you must conduct a monthly fuel analysis according to §63.7521 for each type of fuel burned that is subject to an emission limit in Tables 1, 2, or 11 through 13 to this subpart. You may comply with this monthly requirement by completing the fuel analysis any time



Effective Date: To be entered upon final issuance

		<p>within the calendar month as long as the analysis is separated from the previous analysis by at least 14 calendar days. If you burn a new type of fuel, you must conduct a fuel analysis before burning the new type of fuel in your boiler or process heater. You must still meet all applicable continuous compliance requirements in §63.7540. If each of 12 consecutive monthly fuel analyses demonstrates 75 percent or less of the compliance level, you may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly sample exceeds 75 percent of the compliance level or you begin burning a new type of fuel, you must return to monthly monitoring for that fuel, until 12 months of fuel analyses are again less than 75 percent of the compliance level.</p>
n.	<p>40 CFR 63.7521(a) through (e) [fuel analysis]; and 40 CFR 63.7530(c)</p>	<p>Fuel analyses must be conducted to determine the concentration of chloride and Hg in each solid and liquid fuel and the concentration of Hg in each “gas 2 (other)”* fuel (excluding fuels used only for startup/shutdowns or transient flame stability) according to paragraphs 40 CFR 63.7521(a) through (e), Table 6 to the NESHAP, and the site-specific fuel monitoring plan. A fuel analysis from the supplier may be used to meet this requirement if they use the Methods identified in Table 6. The concentration of chlorine, Hg, and/or TSM must be in units of lbs/MMBtu of each composite sample, for each fuel type, and according to the procedures in Table 6 to the NESHAP.</p>

(Authority for term: 40 CFR Part 63 and OAC rule 3745-77-07(C)(1))

- (3) The existing boilers identified in the averaging group in this permit, that will be burning the same fuel and are the same subcategory (as identified in 40 CFR 63.7499 and defined in 40 CFR 63.7575), shall demonstrate compliance with the emission limits for PM, HCl, and/or Hg in Table 2 through emissions averaging. The boilers identified in the averaging group shall meet the following requirements:



- a. for each boiler in the averaging group, the emission rate achieved during the initial compliance test (for the HAP being averaged) shall not exceed the emission level that was achieved on the date identified in 40 CFR 63.7522(c); or the control technology employed during the initial compliance test shall not be less effective for the HAP being averaged than the control technology employed on the date identified in 40 CFR 63.7522(c);
- b. the averaged emissions from the boilers shall not exceed 90% of the applicable emission standard(s) identified in Table 2 of Part 63 Subpart DDDDD; and therefore
- c. during the initial compliance demonstration, while operating at the maximum rated heat input capacity or maximum steam generation capacity of each unit, the average weighted emissions of PM, HCl, and/or Hg, calculated as required in 40 CFR 63.7522 (below), shall not exceed 90% of the applicable emission standard(s) in Table 2 of 40 CFR 63 Subpart DDDDD:

- i. Where using Equation 1a (from 40 CFR 63.7522(e)(1)) to calculate the average weighted emissions of PM, HCl, and/or Hg based on heat input, the weighted average emissions times the discount factor of 1.1, shall not exceed the emission limitation for the same HAP/surrogate identified in Table 2 to this Subpart:

$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (\text{Er} \times \text{Hm}) \div \sum_{i=1}^n \text{Hm}$$

Where:

Ave Weighted Emissions = average weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of heat input.

Er = emission rate, as determined during the initial compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for unit “i”, in lbs of pollutant/MMBtu.

Hm = maximum rated heat input capacity of unit, “i”, in million Btu per hour.

n = number of existing boilers (units) participating in the emissions averaging option.

1.1 = the required discount factor

- ii. Where using Equation 1b (from 40 CFR 63.7522(e)(1)) to calculate the average weighted emissions of PM, HCl, and/or Hg based on the steam generation (output), the weighted average emissions times the discount



factor of 1.1 shall not exceed the emission limitation for the same HAP/surrogate identified in Table 2 to this Subpart:

$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (E_r \times S_o) \div \sum_{i=1}^n S_o$$

Where:

Ave Weighted Emissions = average weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of steam output.

E_r = emission rate, as determined during the initial compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for unit “i”, in lbs of pollutant/MMBtu steam output.

S_o = maximum steam output capacity of unit, “i”, in million Btu per hour.

n = number of existing boilers (units) participating in the emissions averaging option.

1.1 = the required discount factor

- iii. Where the maximum rated heat input capacity of one or more steam generating boilers cannot be determined, Equation 2 (from 40 CFR 63.7522(e)(2)) shall be used in place of Equation 1a to calculate the average weighted emissions of PM, HCl, and/or Hg based on heat input using a conversion factor to calculate the heat input per pounds of steam generated. The weighted average emissions times the discount factor of 1.1 shall not exceed the emission limitation for the same HAP/surrogate identified in Table 2 to this Subpart:

$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (E_r \times S_m \times C_f_i) \div \sum_{i=1}^n S_m \times C_f_i$$

Where:

Ave Weighted Emissions = average weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of heat input.

E_r = emission rate, as determined during the most recent compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for boiler “i”, in lbs of pollutant/MMBtu.

S_m = maximum steam generation by boiler, “i”, in pounds of steam/hour.



C_f = conversion factor, calculated from the most recent compliance test, in million Btu of heat input per pounds of steam generated for unit, i .

n = number of existing boilers participating in the emissions averaging option.

1.1 = the required discount factor

d. Continuous compliance with the emission limits in Table 2 shall be demonstrated on a monthly basis, determined at the end of every month (12 times per year) using the heat input or steam generation output of each boiler. The first monthly period begins on the compliance date specified in 40 CFR 63.7495 and compliance is demonstrated if the monthly weighted average emissions for the existing subcategory of boilers are not more than 90% of the applicable emission limit in Table 2 to Part 63, Subpart DDDDD.

i. For each calendar month Equation 3a (from 40 CFR 63.7522(f)(1)) shall be used to calculate the monthly average-weighted emissions based on the heat input for the existing boilers participating in the emissions averaging option:

$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (E_r \times H_b) \div \sum_{i=1}^n H_b$$

Where:

Ave Weighted Emissions = average-weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of heat input, for the calendar month.

E_r = emission rate, as determined during the most recent compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for unit, “ i ”, in lbs of pollutant/MMBtu.

H_b = the actual heat input for the calendar month for unit, “ i ”, in million Btu.

n = number of existing boilers (units) participating in the emissions averaging option.

1.1 = the required discount factor

ii. For each calendar month Equation 3b (from 40 CFR 63.7522(f)(1)) shall be used to calculate the monthly average-weighted emissions based on steam generation (output) for the existing boilers participating in the emissions averaging option:

$$\sum_{i=1}^n \quad \quad \quad \sum_{i=1}^n$$



$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (E_r \times S_o) \div \sum_{i=1}^n S_o$$

Where:

Ave Weighted Emissions = average-weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of steam output, for the calendar month.

E_r = emission rate, as determined during the most recent compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for unit, "i", in lbs of pollutant/MMBtu of steam output.

S_o = the steam output for the calendar month for unit, "i", in million Btu.

n = number of existing boilers (units) participating in the emissions averaging option.

1.1 = the required discount factor

- iii. For each calendar month where the heat input of one or more boilers cannot be determined, Equation 4 (from 40 CFR 63.7522(f)(2)) can be used in place of Equation 3a to calculate the monthly average-weighted emissions based on heat input using a conversion factor to calculate the heat input per pounds of steam generated:

$$\text{Avg.Wt.Emissions} = 1.1 \sum_{i=1}^n (E_r \times S_a \times C_f) \div \sum_{i=1}^n S_a \times C_f$$

Where:

Ave Weighted Emissions = monthly, average-weighted emissions for PM, HCl, or Hg, in pounds of pollutant per million Btu of heat input.

E_r = emission rate, as determined during the most recent compliance demonstration for PM, HCl, or Hg, from the performance testing results (using the appropriate Methods from Table 5 to the Subpart); **or** for HCl or Hg, derived from fuel analyses results using methods/procedures found in Table 6 and calculated according to 40 CFR 63.7530 for boiler, "i", in lbs of pollutant/MMBtu.

S_a = actual steam generation for the calendar month for boiler, "i", in pounds of steam.

Cf_i = conversion factor, as calculated during the most recent compliance test, in million Btu of heat input per pounds of steam generated for boiler, i.

n = number of existing boilers participating in the emissions averaging option.

1.1 = the required discount factor

(Authority for term: 40 CFR 63.7522)

- (4) Following the first 12 months of the compliance period, the rolling 12-month average emission rate(s) shall be calculated using the monthly weighted-average emission rates from each month, as calculated above, using Equation 5 from 40 CFR 63.7522 as follows:

$$E_{avg} = \sum_{i=1}^n ER_i \div 12$$

Where:

E_{avg} = rolling, 12-month, average emission rate, in pounds of pollutant per million Btu heat input.

ER_i = monthly weighted average emission rate, for month “i”, in pounds per million Btu heat input, as calculated using Equations 3 or 4 for each month’s “Ave Weighted Emissions”.

Compliance is demonstrated each month if the rolling, 12-month, average emission rate from the existing boilers does not exceed 90% of the applicable limit in Table 2 to the Subpart for the averaging pollutant(s).

(Authority for term: 40 CFR 63.7522)

- (5) No later than 180 days before the date of an intended compliance demonstration based on emissions averaging, the permittee shall submit, for approval, an implementation plan for emission averaging to the Ohio EPA Southeast District Office. The implementation plan shall include the following information for the boilers in each averaging group:
- a. the identification of all existing boilers in the averaging group and the subcategory of each averaging group;
 - b. which of the pollutant emissions will be averaged, PM, HCl, and/or Hg;
 - c. for each boiler in the averaging group, either the applicable HAP emission level or the control technology installed as of 5/20/11;
 - d. the date on which compliance using emission averaging is to commence;

- e. the (heat input or steam generated) that will be monitored for each averaging group;
- f. the specific control technology or pollution prevention measure to be used for each boiler in the averaging group and the date of its installation or application;
- g. the test plan for the measurement of PM, HCl, or Hg emissions in accordance with the requirements in 40 CFR 63.7520, i.e., to be included in the site-specific test plan; and
- h. the operating parameters to be monitored for each control system or device consistent with 63.7500 and Table 4 and a description of how the operating limits will be determined.

(Authority for term: 40 CFR 63.7522(g)(1) and (2))

- (6) Following the compliance date, the permittee using emission averaging for any subcategory of existing boilers, shall demonstrate compliance on a continuous basis by meeting the following requirements:
 - a. for each calendar month, the average-weighted emissions from the boilers in the averaging group, calculated in accordance with 40 CFR 63.7522(f) and (g), must not exceed 90% of the limit in Table 2 to the Subpart, for the averaging pollutant;
 - b. following the first 12 months of the compliance period and for each calendar month, the rolling, 12-month, average-weighted emissions for the boilers, calculated in accordance with 40 CFR 63.7522(f)(3) and this permit, shall not exceed 90% of the limit in Table 2 to the Subpart for the averaging pollutant;
 - c. for each existing boiler participating in the emissions averaging option that is equipped with a dry control system and not vented to a common stack or not vented to a common stack shared with non-affected units, the opacity shall not exceed 10% opacity as a 6-minute average;
 - d. for each existing boiler participating in the emissions averaging option that is equipped with a wet scrubber, the 3-hour average parameter values shall be maintained at or below the operating limits established during the most recent performance test; and
 - e. for each existing boiler participating in the emissions averaging option that is venting to a common stack containing affected units from other subcategories, the appropriate operating limits for each unit shall be maintained as specified in Table 4 to the NESHAP.

Any instance where the permittee fails to comply with the continuous monitoring requirements above is a deviation from the requirements of Subpart DDDDD.

(Authority for term: 40 CFR 63.7541)

- (7) Annual performance testing shall be conducted for each pollutant (PM, HCl, or Hg) for which compliance is demonstrated through emissions averaging. Each performance test must be completed no more than 13 months following the previous performance test for each existing boiler participating in emissions averaging within the subcategory (defined in 40 CFR 63.7499).

(Authority for term: 40 CFR 63.7515(a) and (c))

- (8) For solid and liquid fuels (excluding fuels used during startup/shutdown or for transient flame stability) an initial fuel analysis shall establish the maximum concentration of chlorine and Hg (and TSM if opting to demonstrate compliance with TSM) in each fuel, in pounds per MM/Btu heat input; and

For “gas 2 other fuels” (excluding fuels used during startup/shutdown or for transient flame stability) an initial fuel analysis shall establish the maximum concentration of Hg in the fuel, in pounds per MM/Btu heat input:

lb of TSM/MMBtu of actual heat input;

lbHCl/MMBtu of actual heat input; and

lb Hg/MMBtu of actual heat input

Applicable Compliance Method:

In accordance with the procedures identified in 40 CFR 63.7521 and 40 CFR 63.7530(a) and (b), the Methods identified in Table 6 to Subpart DDDDD shall be conducted concurrently (or fuel samples collected) with the performance stack testing methods from 40 CFR, Part 60, Appendix A, i.e., Methods 1 through 4; Method 5 or 17 for PM; Method 26 or 26A for HCl; and Method 29 for Hg, during the initial demonstration of compliance. The concentration of pollutants in the fuel shall be determined by using the testing results from the methods/procedures from Table 6 in Equations 7, 8, and/or 9 from 40 CFR 63.7530(b).

(Authority for term: 40 CFR 63.7510(a)(2)], [40 CFR 63.7521(a)], [40 CFR 63.7530(a) and (b)], and [40 CFR Part 63, Subpart DDDDD Table 6]

- (9) Compositing fuel samples shall be prepared during the initial performance test as required per Table 6, and/or for solid fuels, samples shall be prepared in accordance with 40 CFR 63.7521(c) and (d) or an equivalent method. The resultant fuel analyses shall establish maximum fuel input levels, in pounds per million Btu, of chlorine and/or Hg; and TSM where opting to comply with the TSM standard. The permittee shall conduct fuel analyses and establish maximum fuel pollutant input levels according to the following requirements from 40 CFR 63.7530(b):

- a. the maximum chlorine fuel input (Cl_{input}) shall be established during the initial performance testing according to the following procedures from 40 CFR 63.7530(b)(1):

- i. the fuel type or fuel mixture that has the highest content of chlorine shall be determined from the fuels that are burned or will be burned in the boiler;
- ii. during the performance testing for HCl, the fraction of the total heat input for each fuel type burned (Q_i) shall be determined based on the fuel mixture that has the highest content of chlorine, and the average chlorine concentration shall be determined for each fuel type burned (C_i);
- iii. a maximum chlorine input level shall be established using Equation 7 from 40 CFR 63.7530(b)(1):

$$Cl_{input} = \sum_{i=1}^n (C_i)(Q_i)$$

Where:

Cl_{input} = maximum amount of chlorine entering the boiler from the fuels burned in pounds per million Btu.

C_i = arithmetic average concentration of chlorine in fuel type "i", analyzed according to 40 CFR 63.7521, in pounds per million Btu.

Q_i = fraction of total heat input from fuel type "i", based on the mixture that has the highest content of chlorine. If multiple fuel types are not burned during the performance testing, it is not necessary to determine the value of this term. Insert a value of "1" for Q_i .

n = number of different fuel types burned in the boiler for the mixture having the highest content of chlorine.

- b. the maximum Hg fuel input level (Mercury input) shall be established during the initial performance testing according to the following procedures from 40 CFR 63.7530(b)(2):

- i. the fuel type or fuel mixture that has the highest content of Hg shall be determined from all the fuels that are burned or that will be burned in the boiler;
- ii. during the performance testing for Hg, the fraction of the total heat input for each fuel type burned (Q_i) shall be determined based on the mixture that has the highest content of Hg, and the average Hg concentration shall be determined for each fuel type burned (HG_i);
- iii. a maximum Hg input level shall be established using Equation 8 from 40 CFR 63.7530(b)(2):

$$Mercury_{input} = \sum_{i=1}^n (HG_i)(Q_i)$$

Where:

$Mercury_{input}$ = maximum amount of Hg entering the boiler from the fuels burned, in pounds per million Btu.

HG_i = arithmetic average concentration of Hg in fuel type "i", analyzed according to 40 CFR 63.7521, in pounds per million Btu.

Q_i = fraction of total heat input from fuel type "i", based on the mixture that has the highest Hg content. If multiple fuel types are not burned during the performance testing, it is not necessary to determine the value of this term. Insert a value of "1" for Q_i .

n = number of different fuel types burned in the boiler for the mixture having the highest content of Hg.

c. the maximum TSM fuel input level (TSM input) shall be established during the initial performance testing according to the following procedures from 40 CFR 63.7530(b)(3):

- i. the fuel type or fuel mixture that has the highest content of TSM shall be determined from all the fuels that are burned or that will be burned in the boiler;
- ii. during the performance testing for TSM, the fraction of the total heat input for each fuel type burned (Q_i) shall be determined based on the mixture that has the highest content of TSM, and the average TSM concentration shall be determined for each fuel type burned (TSM_i);
- iii. a maximum TSM input level shall be established using Equation 9 from 40 CFR 63.7530(b)(3):

$$TSM_{input} = \sum_{i=1}^n (TSM_i)(Q_i)$$

Where:

TSM_{input} = maximum amount of TSM entering the boiler from the fuels burned, in pounds per million Btu.

TSM_i = arithmetic average concentration of TSM in fuel type "i", analyzed according to 40 CFR 63.7521, in pounds per million Btu.

Q_i = fraction of total heat input from fuel type "i", based on the mixture that has the highest TSM content. If multiple fuel types are not burned during the performance testing, it is not necessary to determine the value of this term. Insert a value of "1" for Q_i .

n = number of different fuel types burned in the boiler for the mixture having the highest content of TSM.



(Authority for term: 40 CFR 63.7530(b)(1), (2), and (3))

(10) Where the permittee is requesting to demonstrate compliance with Hg, HCl, or TSM through fuel analyses, as allowed per 40 CFR 63.7505(c), and has submitted certified laboratory fuel analyses testing results demonstrating that sufficient data has been collected to comply with 40 CFR 63.7530(c), for a 90th percentile confidence level of the subject pollutant concentration, the permittee shall also calculate and maintain a record of the subject pollutant's emission rate as required per 40 CFR 63.7530(c). For each pollutant that the permittee elects to demonstrate compliance through fuel analyses, the fuel analysis shall be conducted according to 40 CFR 63.7521 and Table 6 to the Subpart. The following procedures and calculations shall be documented and submitted to the Ohio EPA, Southeast District Office in order to be considered for the exemption from performance stack testing:

- a. if burning more than one fuel type, the permittee shall determine the fuel or fuel mixture that would result in the maximum emission rates of each/the pollutant (which could mean multiple fuels);
- b. the 90th percentile confidence level, of the pollutant concentration of the composite samples of each fuel type analyzed, shall be determined using the one-sided z-statistic test described in Equation 10 from 40 CFR 63.7530(c)(2) as follows:

$$P_{90} = \text{mean} + (\text{SD} \times t)$$

Where:

P_{90} = 90th percentile confidence level pollutant concentration, in pounds per million Btu

mean = arithmetic average of the pollutant concentration in the fuel samples analyzed according to 40 CFR 63.7521, in pounds per million Btu

SD = standard deviation of the pollutant concentration in the fuel samples analyzed according to 40 CFR 63.7521, in pounds per million Btu

t = t distribution critical value for 90th percentile (0.1) probability for the appropriate degrees of freedom (number of samples minus one), as obtained from a Distribution Critical Value Table

- c. in order to demonstrate compliance with the applicable emission limit for HCl, the HCl emission rate for the boiler shall be calculated to be less than the applicable emission limit using Equation 11 from 40 CFR 63.7530(c)(3) as follows:

$$\text{HCl} = \sum_{i=1}^n [(C_{i90})(Q_i)(1.028)]$$

Where:

HCl = HCl emission rate from the boiler in pounds per million Btu.



C_{i90} = 90th percentile confidence level concentration of chlorine in fuel type “i” in pounds per million Btu, as calculated according to Equation 10 above

Q_i = fraction of total heat input from fuel type “i” based on the fuel mixture that has the highest content of chlorine. If only one fuel type is used, it is not necessary to determine the value of Q_i and it will equal “1”.

n = number of different fuel types burned in the boiler for the mixture having the highest content of chlorine.

1.028 = molecular weight ratio of HCl to chlorine

- d. in order to demonstrate compliance with the applicable emission limit for Hg, the Hg emission rate for the boiler shall be calculated to be less than the applicable emission limit using Equation 12 from 40 CFR 63.7530(c)(4) as follows:

$$Hg = \sum_{i=1}^n [(Hg_{i90})(Q_i)]$$

Where:

Hg = Hg emission rate from the boiler in pounds per million Btu.

Hg_{i90} = 90th percentile confidence level concentration of Hg in fuel type “i” in pounds per million Btu, as calculated according to Equation 10 above.

Q_i = fraction of total heat input from fuel type “i”, based on the fuel mixture that has the highest Hg content. If only one fuel type is used, it is not necessary to determine the value of Q_i and it will equal “1”.

n = number of different fuel types burned in the boiler for the mixture having the highest content of Hg.

- e. in order to demonstrate compliance with the applicable emission limit for TSM, the TSM emission rate for the boiler shall be calculated to be less than the applicable emission limit using Equation 13 from 40 CFR 63.7530(c)(5) as follows:

$$TSM = \sum_{i=1}^n [(TSM_{i90})(Q_i)]$$

Where:

TSM = TSM emission rate from the boiler in pounds per million Btu.

TSM_{i90} = 90th percentile confidence level concentration of TSM in fuel type “i” in pounds per million Btu, as calculated according to Equation 10 above.

Q_i = fraction of total heat input from fuel type "i", based on the fuel mixture that has the highest TSM content. If only one fuel type is used, it is not necessary to determine the value of Q_i and it will equal "1".

n = number of different fuel types burned in the boiler for the mixture having the highest content of TSM.

(Authority for term: 40 CFR 63.7530(c), 40 CFR 63.7505(c), and 40 CFR 63.7510(b))

- (11) Fuel samples used to meet the fuel sampling analyses requirements shall be collected as follows:
- a. When sampling during stack testing, collect three composite fuel samples at one hour intervals during the testing period. For monthly sampling, each composite sample shall be collected at approximately equal 10-day intervals during the month. An automated sampling mechanism shall provide representative composite fuel samples.
 - b. If sampling from a belt (or screw) feeder, the belt shall be stopped and a 6-inch wide sample shall be collected from the full cross-section of the belt, to obtain a minimum two pounds of sample. Both fines and coarse material shall be included in the full cross-section sample. Each composite sample shall consist of a minimum of three samples collected at approximately equal intervals during the testing period. The samples shall be retained in a clean plastic bag until preparations for testing.
 - c. If sampling from a fuel pile or truck, for each composite sample, a minimum of five sampling locations shall be selected, uniformly spaced over the surface of the pile. At each sampling site, the sample shall be withdrawn by digging, with a clean shovel, into the pile to a depth of 18 inches. Both fines and coarse material shall be collected in the recovered samples. The samples shall be retained in a clean plastic bag until preparations for testing.
 - d. Each composite sample shall be prepared according to the procedures:
 - i. thoroughly mix and pour the entire composite sample over a clean plastic sheet;
 - ii. break larger pieces (e.g. larger than 3 inches) into smaller sizes;
 - iii. make a pie shape with the entire composite sample and subdivide it into four equal parts;
 - iv. separate one of the quarter samples as the first subset;
 - v. if this subset is too large for grinding, repeat the procedure in paragraph iii above, start over with the quarter sample and obtain a one-quarter subset from this sample;

- vi. grind the sample in a mill; and
- vii. make a pie shape with the entire composite sample and subdivide it into four equal parts to obtain a one-quarter sub-sample for analysis. If the quarter sample is too large, subdivide it further using the same procedure.

The concentration of pollutants in the fuel (mercury, chlorine, and/or TSM) shall be determined in pounds per million Btu, for each composite sample for each fuel type and according to the procedures in Table 6 to this Subpart, for use in Equations 7, 8, and 9 of Subpart DDDDD.

(Authority for term: 40 CFR 63.7521(c), (d), and (e))

- (12) Fuel analyses samples collected in order to demonstrate compliance with 40 CFR Part 63, Subpart DDDDD shall meet the sampling procedures found in 40 CFR 63.7521 and the testing shall be conducted according to the methods and procedures found in Table 6 to the Subpart and the site-specific fuel monitoring plan, for Hg, chlorine, or TSM. Monthly records of the types and amounts of each fuel burned in the boiler shall be maintained as required by 40 CFR 63.7540(a). If the fuel supplier is providing the fuel analyses, they must use the methods and procedures found in Table 6 to Part 63 Subpart DDDDD.

(Authority for term: 40 CFR 63.7510(a), 40 CFR 63.7521, 40 CFR 63.7530(c), 40 CFR 63.7540(a)(2), and 40 CFR Part 63, Subpart DDDDD Tables 6 and 8)

g) Miscellaneous Requirements

- (1) None.



9. Emissions Unit Group - Main Boilers: B003, B004,

EU ID	Operations, Property and/or Equipment Description
B003	Unit 1 Main Boiler – Babcock and Wilcox Model UP-102 pulverized coal-fired, dry-bottom boiler, having a nominal rated capacity of 11,936 MMBtu/hr, and controlled with a selective catalytic reduction system (SCR), electrostatic precipitator (ESP), and wet FGD scrubber.
B004	Unit 2 Main Boiler – Babcock and Wilcox Model UP-102 pulverized coal-fired, dry-bottom boiler, having a nominal rated capacity of 11,936 MMBtu/hr, and controlled with a selective catalytic reduction system (SCR), electrostatic precipitator (ESP), and wet FGD 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) b)(2)a. and d)(3).

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 #06-3146 issued Final August 12, 1992)	See b)(2)a.
b.	OAC rule 3745 -17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-10(C)(1)	PE shall not exceed 0.10 lb/MMBtu, actual heat input.
d.	OAC rule 3745-18-33(D)	Sulfur dioxide (SO ₂) emissions shall not exceed 7.41 lbs/MMBtu, actual heat input.
e.	40 CFR Part 63, Subpart UUUUU (Table 2 (#1): 40 CFR Part 63.9990 – 63.100421) effective date of April 16, 2015. [In accordance with 40 CFR 60.9982(d), this emissions unit is an existing EGU if it is not new or reconstructed. An existing electric steam generating unit that meets the applicability requirements after the effective date of this final rule due to	Except as provided under the Emissions Averaging provisions specified in 63.10009 if applicable, the permittee shall comply with the following: 0.03 lb/MMBtu (PM) or 0.30 lb/MWh (PM); OR 5.0E-5 lb/MMBtu or 5.0E-1 lb/GWh of total non-Hg HAP metals; OR Individual HAP metals:



Effective Date: To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	a change in process (e.g., fuel or utilization) is considered to be an existing source under this subpart.]	Antimony (Sb) 8.0E-1 lb/TBtu or 8.0E-3 lb/GWh. Arsenic (As) 1.1E0 lb/TBtu or 2.0 E-2 lb/GWh. Beryllium (Be) 2.0E-1 lb/TBtu or 2.0E-3 lb/GWh. Cadmium (Cd) 3.0E-1 lb/TBtu or 3.0E-3 lb/GWh. Chromium (Cr) 2.8E0 lb/TBtu or 3.0E-2 lb/GWh. Cobalt (Co) 8.0E-1 lb/TBtu or 8.0E-3 lb/GWh. Lead (Pb) 1.2E0 lb/TBtu or 2.0E-2 lb/GWh. Manganese (Mn) 4.0E0 lb/TBtu or 5.0E-2 lb/GWh. Nickel (Ni) 3.5E0 lb/TBtu or 4.0E-2 lb/GWh. Selenium (Se) 5.0E lb/TBtu or 6.0E-2 lb/GWh. Hydrogen chloride (HCl) 2.0E-3 lb/MMBtu or 2.0E-2 lb/MWh, OR Sulfur dioxide (SO ₂) 2.0E-1 lb/MMBtu or 1.5E0 lb/MWh. Mercury (HG) 1.2E0 lb/TBtu or 1.3E-2 lb/GWh.
f.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 16)	Table 9 to Subpart UUUUU of 40 CFR Part 63 – Applicability of General Provisions to Subpart UUUUU shows which parts of the General Provisions in 40 CFR 63.1-16 apply.
g.	40 CFR Part 64	See b)(2)b. – e., d)(1), d)(2), d)(3), d)(5), e)(1) – (3), f)(1)a., f)(1)b., and f)(2). Pursuant to 40 CFR 64.2(b), CAM will not



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart UUUUU after the compliance date in that rule.

(2) Additional Terms and Conditions

- a. OAC rule 3745-31-05(A)(3) did not apply to this modification issued 8/12/1992, based on OAC rule 3745-31-01(QQQ)(1)(b).

This permit allowed the voluntary installation of one flue gas desulfurization (FGD) scrubber unit on emissions units B003 and B004. A permit to install was required to determine whether the air quality impacts associated with the installation of the new FGD unit exceeded the levels outlined in OAC rule 3745-31-01(QQQ)(1)(b). Because an environmentally beneficial exemption does not allow installation of a project that exceeds modeling thresholds, the installation of the scrubber required a permit to install.

- b. The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
- c. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.
- d. At all times, the permittee shall maintain the monitoring equipment, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- e. The permittee shall comply with the requirements of 40 CFR Part 63, Subpart UUUUU by no later than April 16, 2015, or on the date the emissions unit meets the definition of an EGU subject to this subpart. Additional compliance deadlines are specified in 40 CFR 63.9984.
- f. The permittee shall demonstrate that compliance has been achieved, by conducting the required performance tests and other activities, no later than October 13, 2015.



- g. The permittee shall maintain a written quality assurance/quality control plan for the continuous SO₂ monitoring system, designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). Except as allowed below, the plan shall follow the requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours. The permittee may keep these records electronically (on or offsite), provided the record can be made readily available when requested by Ohio EPA.

The plan shall include the requirement to conduct relative accuracy test audits for the continuous SO₂ monitoring system in accordance with the frequencies required pursuant to 40 CFR Part 60 and 40 CFR Part 75; or may follow relative accuracy test audit frequency requirements for monitoring systems subject to 40 CFR 75, Appendix B, in lieu of frequencies required in 40 CFR Part 60. In either case, results shall be recorded and reported in units of the applicable standard(s) in accordance with 40 CFR Part 60.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits pursuant to 40 CFR Part 60, and linearity checks pursuant to 40 CFR Part 75; however, linearity checks completed pursuant to 40 CFR Part 75, Appendix B, may be substituted for the quarterly cylinder gas or relative accuracy audits required per 40 CFR Part 60.

- h. This existing source is not subject to Chapter OAC rule 3745-110 since Gallia County is not one of the counties listed under OAC rule 3745-110-02(A)(1)(b).

(Authority for terms: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Appendix B, 40 CFR Part 60, Appendix F, and 40 CFR Part 75 and 40 CFR Part 64)

c) Operational Restrictions

- (1) The permittee shall comply with the requirements of the Preventative Maintenance and Malfunction Abatement Plan (PMMAP), which was last revised February 7, 2012, for the Plant FGD Absorber System, and/or any subsequent revisions approved by the Ohio EPA Southeast District Office.

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

- (2) The permittee shall comply with the applicable restrictions required under 40 CFR Part 63, Subpart UUUUU, including the following sections:

63.9991(a)(1)	meet at all times each emission limit and work practice standard in Tables 1 through 3, except as provided in 63.10009
63.9991(a)(2)	meet at all times each operating limit in Table 4
63.9991(b)	administrator may approve alternative to work



	practice standards
63.10000(a)	must be in compliance with applicable emission limits and operating limits at all times, except during periods of startup and shutdown, and required to meet Table 3 work practice requirements during periods of startup and shutdown
63.10000(b)	must operate and maintain affected source, including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions
63.10000(h)	requirements for an emissions unit that does not meet the definition of an EGU subject to this subpart on 4/16/2015 and later commences operation that causes the emissions unit to meet the definition of EGU in this subpart
63.10000(f), (g), (i), (j)	requirements following last date the unit met the definition of an EGU

(Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63)

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain on-site, the document of certification received from the U.S. EPA or the Ohio EPA's Central Office verifying that the continuous opacity monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter/document of certification shall be made available to the Ohio EPA Southeast District Office upon request.

Each continuous monitoring system consists of all the equipment used to acquire and record data in units of all applicable standard(s), and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

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

- (2) The permittee shall operate and maintain the continuous opacity monitoring system to continuously monitor and record the opacity of the particulate emissions from this emissions unit. The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous opacity monitoring system including, but not limited to:

- a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;
- b. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- c. hours of operation of the emissions unit and continuous opacity monitoring system;
- d. the date, time, and hours of operation of the emissions unit without the continuous opacity monitoring system;
- e. the date, time, and hours of operation of the emissions unit during any malfunction of the continuous opacity monitoring system; as well as,
- f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).

(Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 75, Appendix B of 40 CFR 60, and 40 CFR Part 64)

- (3) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the emissions unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

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

- (4) To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain a temperature monitor that measures the temperature of the boiler exhaust gases entering the ESP (a) during all periods of startup until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b) during all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). An electronic or hardcopy record of the temperatures during periods of start-up and shutdown shall be maintained.

The temperature monitor shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

[OAC rules 3745-77-07(C)(1), 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i)].

- (5) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for visible particulate emissions is the opacity of the visible emissions from the exhaust stack as measured and recorded by the certified continuous opacity monitoring (COM) system. The visible particulate emissions indicator range is each three-hour block average with an opacity value greater than 10%. The three-hour

block average opacity shall be based on the one-minute values recorded in d)(2)a. When the opacity value over the averaging period of the indicator range is greater than 10%, corrective action (including, but not limited to, an evaluation of the emissions unit and baghouse) shall be assessed and implemented as appropriate.

Upon detecting an excursion of the visible particulate emission indicator range listed above, the owner or operator shall restore operation of the emissions unit (including the control device) 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 or exceedance (other than those caused by excused startup or shutdown conditions). 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.

(OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (6) After the compliance date specified in 40 CFR Part 63, Subpart UUUUU, the PM monitoring requirements specified in 40 CFR section 63.10010 may satisfy the monitoring requirements of 40 CFR Part 64 specified in d)(5), if the permittee chooses to comply with the PM emission limitation specified in Table 2 to 40 CFR Part 63, Subpart UUUUU. Since the CAM requirements of 40 CFR Part 64 will continue to apply after the date specified in 40 CFR Part 63, Subpart UUUUU, the CAM plan shall be revised at such time to be consistent with the MACT monitoring requirements, if the permittee chooses to comply with PM emission limitation specified in Table 2 to 40 CFR Part 63, Subpart UUUUU.

(OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (7) If coal sampling and analysis is used to demonstrate compliance with the SO₂ emission limitation, the permittee shall maintain records for each day of the total quantity of coal burned, the results of the analyses for ash content, sulfur content, and heat content, and the calculated sulfur dioxide emission rate (lb/mmBtu) in accordance with the following:

The permittee shall collect daily composite samples of the coal burned in this emissions unit. A sufficient number of individual samples shall be collected so that each composite sample is representative of the average quality of coal burned in this emissions unit during each calendar day. The coal sampling shall be performed in accordance with the most recent version of ASTM method D2234, Collection of a Gross Sample of Coal.



Each daily composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content and heat content shall be the most recent version of: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isothermal Bomb Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the Ohio EPA Southeast District Office.

(Authority for term: 40 CFR Part 60, and OAC rule 3745-77-07(C)(1))

- (8) The permittee shall operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain documentation from the USEPA or the Ohio EPA that the continuous SO₂ monitoring system has been certified in accordance with 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous SO₂ monitoring system: the average daily and rolling, 30-day average emission rates of SO₂ in lb/mmBtu actual heat input, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. In addition, the permittee shall maintain daily records of the total actual heat input values as determined through F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

(Authority for term: 40 CFR Part 60, 40 CFR Part 75 and OAC rule 3745-77-07(C)(1))

- (9) Effective with the compliance date of April 16, 2015, the permittee shall comply with the applicable monitoring and recordkeeping requirements required under 40 CFR Part 63, Subpart UUUUU, including the following sections:

63.10000(d)	site specific monitoring plan requirements
63.10000(k)	monitoring systems necessary for newly applicable requirements resulting from cessation or recommencement of operations
63.10001(a)	affirmative defense



63.10005(j)	startup and shutdown requirements
63.10007(f)	availability of performance test records
63.10010(a)	continuous monitoring system requirements for CEMS, PM CPMS, and sorbent trap monitoring systems
63.10010(b)	installation requirements for O ₂ and CO ₂ monitoring systems
63.10010(c)	flow monitoring requirements
63.10010(d)	moisture monitoring requirements
63.10010(e)	HCl and/or HF CEMS requirements
63.10010(f)	SO ₂ CEMS requirements
63.10010(g)	Hg CEMS or sorbent trap monitoring system requirements
63.10010(h)	PM CPMS requirements
63.10010(i)	PM CEMS requirements
63.10010(j)	HAP metals CEMS requirements
63.10020(a)	monitor and collect data according to site-specific monitoring plan required by 63.10000(d)
63.10020(b)	monitoring system operation and quality assurance or quality control activities
63.10020(c)	use of data collected
63.10020(d)	deviations from monitoring requirements
63.10021(h)	keep records specified in 63.10032 during periods of startup and shutdown
63.10032(a)	recordkeeping requirements
63.10032(b)	CEMS and CPMS recordkeeping requirements
63.10032(c)	keep records required in Table 7 including records of all monitoring data and calculated averages for applicable PM CPMS operating limits
63.10032(d)	monthly fuel usage records, combusting secondary



	materials, LEE records
63.10032(e)	emissions averaging records
63.10032(f)	startup and shutdown records
63.10032(g)	malfunction records
63.10032(h)	records of actions taken to minimize malfunction period emissions
63.10032(i)	records of type(s) and amount(s) of fuel used during each startup and shutdown
63.10033(a)	records must be in a form readily available for expeditious review
63.10033(b)	records retention
63.10033(c)	location of records

(Authority for term: 40 CFR Part 63 and OAC rule 3745-77-07(C)(1))

e) Reporting Requirements

- (1) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous opacity monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Southeast District Office, documenting all instances of opacity values in excess of any limitation specified in this permit, 40 CFR Part 60, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.
 - b. These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall include the following:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous opacity monitor;
 - iii. a description of any change in the equipment that comprises the continuous opacity monitoring system (COMS), including any change to

- the hardware, changes to the software that may affect COMS readings, and/or changes in the location of the COMS sample probe;
- iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
 - v. the total operating time (hours) of the emissions unit;
 - vi. the total operating time of the continuous opacity monitoring system while the emissions unit was in operation;
 - vii. the date, time, and duration of any/each malfunction** of the continuous opacity monitoring system and emissions unit;
 - viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system while the emissions unit was in operation; and
 - ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no exceedance of the opacity limit has occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the quarterly EER report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of the opacity limit

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

- (2) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO₂ monitoring system:
 - a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA Southeast District Office, documenting all instances of SO₂ emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, 40 CFR Part 75, OAC Chapter 3745-18, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s) on a rolling, 3-hour average basis.
 - b. These quarterly reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall include the following:

- i. the facility name and address;
- ii. the manufacturer and model number of the continuous SO₂ and other associated monitors;
- iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect CEMS readings, and/or changes in the location of the CEMS sample probe;
- iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;
- v. the total SO₂ emissions for the calendar quarter (tons);
- vi. the total operating time (hours) of the emissions unit;
- vii. the total operating time of the continuous SO₂ monitoring system while the emissions unit was in operation;
- viii. results and dates of quarterly cylinder gas audits;
- ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s));
- x. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO₂ monitor out-of-control and the compliant results following any corrective actions;
- xi. the date, time, and duration of any/each malfunction** of the continuous SO₂ monitoring system and emissions unit;
- xii. the date, time, and duration of any downtime** of the continuous SO₂ monitoring system while the emissions unit was in operation; and
- xiii. the reason (if known) and the corrective actions taken (if any) for each event in b.xi and xii.

Each report shall address the operations conducted and data obtained during the previous calendar quarter. Data substitution procedures from 40 CFR Part 75 are not to be used for showing compliance with the short term OAC rule 3745-31-05(A)(3) rule-based or NSPS-based limitation(s) in this permit.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit



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

- (3) The permittee shall collect, record, and maintain measurements, data, records, and reports required per 40 CFR Part 75; and shall submit certification, recertification, notifications, applications, monitoring plans, petitions for alternative monitoring systems, electronic quarterly reports, and any other pertinent record and/or report to the Administrator (U.S. EPA), as required by this Part.

(OAC rule 3745-77-07(C)(1) and 40 CFR Part 75)

- (4) If the results of CAM 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 the Standard Terms and Conditions of this permit.

(OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (5) After the compliance date specified in 40 CFR Part 63, Subpart UUUUU, the reporting requirements specified in 40 CFR section 63.10031 may satisfy the reporting requirements of 40 CFR Part 64 specified in e)(3), if the permittee chooses to comply with the PM emission limitation specified in Table 2 to 40 CFR Part 63, Subpart UUUUU. Since the CAM requirements of 40 CFR Part 64 will continue to apply after the date specified in 40 CFR Part 63, Subpart UUUUU, the CAM plan shall be revised at such time to be consistent with the MACT reporting requirements, if the permittee chooses to comply with PM emission limitation specified in Table 2 to 40 CFR Part 63, Subpart UUUUU.

(OAC rule 3745-77-07(C)(1) and 40 CFR Part 64)

- (6) Effective with the compliance date of April 16, 2015, the permittee shall submit reports and other such notifications as are required pursuant to 40 CFR Part 63, Subpart UUUUU, per the following sections:

63.9984(c)	meet notification requirements in 63.10030 according to schedule in 63.10030 and in 40 CFR Part 63, Subpart A some notifications are due prior to the April 16, 2015 compliance date
63.10000(i)(2)	notification requirements for when EGU will cease complying with this subpart
63.10001(b)	affirmative defense notification requirements
63.10005(k)	submit Notification of Compliance Status per



	63.10030
63.10006(j)	report results of performance tests and performance tune-ups within 60 days after completion
63.11011(e)	submit Notification of Compliance Status containing the results of the initial compliance demonstration
63.10021(f)	reporting requirements
63.10021(g)	reporting deviations from an applicable operating limit or operating limit in Tables 1 through 4
63.10021(i)	submit reports specified in 63.10031 concerning activities and periods of startup and shutdown
63.10030(a)	submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the dates specified
63.10030(b)	Initial Notification submission deadline
63.10030(d)	Notification of Intent to conduct a performance test submittal requirement
63.10030(e)	Notification of Compliance Status submittal requirements
63.10031(a)	submit each report in Table 8 that applies, and, if you are required or elect to continuously monitor Hg and/or HCl, and/or HF emissions, submit the electronic reports required under Appendix A and/or B at the specified frequency
63.10031(b)	reporting schedule
63.10031(c)	compliance report content
63.10031(d)	compliance report content when using a CMS
63.10031(e)	semiannual monitoring report
63.10031(f)	requirements for submitting performance test results to EPA's WebFIRE database
63.10031(g)	malfunction compliance report requirements

(Authority for term: 40 CFR Part 63, Subpart UUUUU and OAC rule 3745-77-07(C)(1))



- (7) 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 section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance 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).

- d. Emissions Limitation:

PE shall not exceed 0.10 lb/MMBtu, actual heat input.

Applicable Compliance Method:

Compliance with the lb/MMBtu emission limitation shall be demonstrated through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 5 or 17 and the procedures in 40 CFR Part 60.46 and OAC rule 3745-17-03(B)(9).

Ongoing compliance with the PM limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) may be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit, and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

- e. Emissions Limitation:

SO₂ emissions from the boiler stack shall not exceed 7.41 lbs/MMBtu of actual heat input.

Applicable Compliance Method:

Ongoing compliance with the SO₂ emission limitations contained in this permit, 40 CFR Parts 60 and 75, and any other applicable standard(s) may be



demonstrated through the data collected as required in the Monitoring and Record Keeping Section of this permit, and the recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

If required, the permittee shall demonstrate compliance with the allowable mass emission rate for SO₂ in accordance with the methods and procedures specified in 40 CFR Part 60.46.

f. Emissions Limitation:

Emissions from the boiler stack shall not exceed:

0.03 lb/MMBtu (PM) or 0.30 lb/MWh (PM); OR
5.0E-5 lb/MMBtu or 5.0E-1 lb/GWh of Total non-Hg HAP metals; OR

Individual HAP metals:

- Antimony (Sb) 8.0E-1 lb/TBtu or 8.0E-3 lb/GWh.
- Arsenic (As) 1.1E0 lb/TBtu or 2.0 E-2 lb/GWh.
- Beryllium (Be) 2.0E-1 lb/TBtu or 2.0E-3 lb/GWh.
- Cadmium (Cd) 3.0E-1 lb/TBtu or 3.0E-3 lb/GWh.
- Chromium (Cr) 2.8E0 lb/TBtu or 3.0E-2 lb/GWh.
- Cobalt (Co) 8.0E-1 lb/TBtu or 8.0E-3 lb/GWh.
- Lead (Pb) 1.2E0 lb/TBtu or 2.0E-2 lb/GWh.
- Manganese (Mn) 4.0E0 lb/TBtu or 5.0E-2 lb/GWh.
- Nickel (Ni) 3.5E0 lb/TBtu or 4.0E-2 lb/GWh.
- Selenium (Se) 5.0E lb/TBtu or 6.0E-2 lb/GWh.
- Hydrogen chloride (HCl) 2.0E-3 lb/MMBtu or 2.0E-2 lb/MWh, OR
- Sulfur dioxide (SO₂) 2.0E-1 lb/MMBtu or 1.5E0 lb/MWh.
- Mercury (HG) 1.2E0 lb/TBtu or 1.3E-2 lb/GWh.

Applicable Compliance Method:

Compliance with the applicable limit(s) shall be demonstrated in accordance with f)(3) below.

(Authority for term: 40 CFR Part 63, Subpart UUUUU and OAC rule 3745-77-07(C)(1))

(2) Emission Testing Requirements

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

- a. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit expiration.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM.



- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) and emission factors:
 - i. for PE: 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity unless otherwise specified or approved by the Ohio EPA Southeast District Office..
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Southeast District Office

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

- (3) Effective with the compliance date of April 16, 2015, the permittee shall comply with the applicable compliance requirements required under 40 CFR Part 63, Subpart UUUUU, including the following sections:

63.10000(c)(1)	initial performance testing requirements – testing is required for all pollutants to demonstrate compliance with applicable emission limits
63.10000(e)	perform periodic tune-ups according to 63.10021(e)
63.10005(a)	initial compliance demonstration requirements
63.10005(b)	initial performance testing requirements



63.10005(c)	establishing operating limits during initial compliance demonstration
63.10005(d)	CMS initial compliance demonstration requirements
63.10005(e), (f)	conduct performance tune-up according to 63.10021(e)
63.10005(h)	low emitting EGUs (LEE)
63.10006(a)	when using PM CPMS to monitor continuous performance, conduct testing according to Table 5 and 63.10007 at least every year
63.10006(b)	LEE repeat test frequency
63.10006(d)	HCl repeat testing requirements when the permittee does not use HCl CEMS to monitor compliance if an SO ₂ CEMS to monitor compliance with an alternate equivalent SO ₂ emission limit
63.10006(f)	repeat testing frequency requirements
63.10006(g)	repeat testing requirements when using emissions averaging compliance option
63.10006(h)	repeat testing requirements for when non-mercury LEE shows emissions greater than 50% of limit
63.10006(i)	if required to meet tune-up work practice standard, conduct performance tune-up according to 63.10021(e)
63.10007(a)	requirements for performance tests; conduct tests according to 63.7(d), (e), (f), and (h); and develop site-specific test plan according to 63.7(c)
63.10007(b)	conduct each performance test (including traditional 3-run test and 30-boiler operating day tests based on CEMS) according to Table 5
63.10007(c)	establishing operating limits when using PM CPMS
63.10007(d)	conducting performance tests
63.10007(e)	using performance testing to determine compliance with applicable Table 1 or 2 emission limits
63.10009(a)	emissions averaging compliance option

63.10009(b)	equations for EGU emissions averaging group
63.10009(c)	emissions averaging EGU groups venting to separate stacks
63.10009(d)	emissions averaging provisions for each EGU in the averaging group
63.10009(e)	emissions averaging compliance schedule
63.10009(f)	emissions averaging group eligibility demonstration
63.10009(g)	determining the weighted rolling average emissions rate
63.10009(h)	using a CEMS or sorbent trap to demonstrate compliance with emissions averaging
63.10009(i)	demonstrating compliance with emissions averaging through manual emission testing
63.10009(j)	emissions averaging plan
63.10009(k), (l), (m), (n)	emissions averaging with a common stack
63.10011(a)	demonstrate initial compliance with each emission limitation that applies by performance testing
63.10011(b)	establish an operating limit in accordance with Table 4 when using a PM CPMS
63.10011(c)(1)	initial performance test when using a CEMS or sorbent trap to measure HAP
63.10011(d)	deviations from the monitoring requirements
63.10011(f)	determine cleanest fuel for burning during startup and shutdown periods
63.10011(g)	follow startup and shutdown requirements in Table 3
63.10021(a)	demonstrate continuous compliance with each emissions limit, operating limit, and work practice standard in Tables 1 through 4 according to Tables 6 and 7 and 63.10021(b) through (g)
63.10021(b)	demonstration of compliance when using a CEMS to measure SO ₂ , PM, HCl, HF, or Hg emissions



Effective Date: To be entered upon final issuance

63.10021(c)	demonstrating compliance when using a PM CPMS to measure compliance with an operating limit in Table 4
63.10021(d)	using quarterly stack testing to demonstrate compliance with one or more limits in Table 1 or 2
63.10021(e)	periodic performance tune-up requirements
63.10022(a)	continuous compliance provisions
63.10022(b)	continuous monitoring requirement deviations
63.10023(a)	recording PM CPMS output values during performance testing
63.10023(b)	determining PM CPMS operating limit
63.10023(c)	operate and maintain process and control equipment such that the 30 operating day average PM CPMS output does not exceed the operating limit

(Authority for term: 40 CFR Part 63, Subpart UUUUU and OAC rule 3745-77-07(C)(1))

g) Miscellaneous Requirements

- (1) None.