



10/22/2026

Caitlin Schiebel
Cardinal Power Plant (Cardinal Operating Company)
6677 Busch Blvd
Columbus, OH 43229

Facility ID: 0641050002
Permit Number: P0137961
County: Jefferson

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 Public Notices website, [Weekly Review and Public Notices](#). A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically on the Ohio EPA document search website here: [eDocument Search](#). The permit can also be commented on and accessed electronically at: <https://ohioepa.commentinput.com>. Search by entering the permit # (P0137961) in the "Search Projects" search box and selecting "Review Document" or "Draft Permit." Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Written (paper) comments must be sent to the following:

Andrea Moore
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 St.
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 on the Ohio EPA Weekly Review and Public Notices website, [Weekly Review and Public Notices | Ohio Environmental Protection Agency](#). 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,

Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-SEDO; Pennsylvania; 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: [Weekly Review and Public Notices | Ohio Environmental Protection Agency](#) or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Phone: 614-644-3037 Email: HClerk@epa.ohio.gov

Draft Title V Permit Renewal

Cardinal Power Plant (Cardinal Operating Company)
306 County Road 7 East
Jefferson County
Brilliant, OH 43913-1088

ID#:	P0137961
Date of Action:	10/22/2026
Permit Desc:	Electric power generation

The permit and complete instructions for requesting information or submitting comments may be obtained at: <https://ohioepa.commentinput.com> - Search by entering the permit P0137961 in the "Search Projects" search box.

Statement of Basis* For Air Pollution Title V Permit

*As defined in OAC rule 3745-77-01(MM): “Statement of basis” or “SOB” means a statement that sets forth the legal and factual basis for the draft [Title V] permit conditions (including references to the applicable statutory or regulatory provisions).”

Completing this form is intended to satisfy those requirements.

Facility ID:	0641050002
Facility Name:	Cardinal Power Plant (Cardinal Operating Company)
Facility Description:	Electric power generation
Facility Address:	306 County Road 7 East Jefferson County Brilliant, OH 43913-1088
Permit #:	P0137961

This facility is subject to Title V because it is major for:

☐ Lead ☒ Sulfur Dioxide ☒ Carbon Monoxide ☒ Volatile Organic Compounds ☒ Nitrogen Oxides

☒ Particulate Matter $\leq$ 10 microns ☒ Single Hazardous Air Pollutant ☒ Combined Hazardous Air Pollutants ☒ GHG

And/or subject to:

☒ Maximum Available Control Technology Standard(s) ☐ GACT standard(s) that requires a Title V permit ☒ Title IV ☐ Opt-In source

A. Permit Background

1. Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(V)?

Yes X

No

Comments:

2. Discuss any **common control determinations** (this includes revisions to previous determinations), include justification, factors, and facts which led to the final decision. N/A

Discussion:

3. 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). This includes identifying conditions from previous permits that are not included in the new permit.

PTI No.: N/A	Affected EUs:
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Discussion of changes from the previous Title V:

4. 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 minor modification** per OAC rules 3745-77-08(C)(1) or (2)

PTI No.: P0137618	Affected EUs: P902
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Minor Modification Description: Change in the moisture content of the fly ash being loaded out caused an increase in fugitive emissions for the truck load-out portion of P902.

5. Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as **a significant permit modification** per OAC rule 3745-77-08(C)(3)

PTI No.: N/A	Affected EUs:
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Significant Modification Description:

6. 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)

PTI No.: N/A

Affected EUs:

Reopening for Cause for Description:

7. Please identify the affected emissions 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.

Affected EUs: N/A

8. Please identify any federal **Consent Decree (CD)** that resulted in the addition of Title V T&Cs – include the CD Number, the CD Public Notice date (if known) and Ohio EPA Permit Number (if applicable, along with final permit issuance date) that incorporates the CD requirements.

CD No. CD No. United States, et al. v. American Electric Power Service Corp., et al., Civil Action Nos. C2-99-1182 and C2-99-1250 and United States, et al. v. American Electric Power Service Corp., et al., Civil Action Nos. C2-04-1098 and C2-05-360 (Consent Decree)

Public
Notice
Date:

PTI No. PTIs P0104411 (B001 and B002) and P0104412 (B009)

PTI Issuance Date: 2/17/2011



9. Please identify any **complex or unusual rule applicability determination** that is not readily apparent in the permit T&Cs and warrants additional explanation in the Statement of Basis. If the discussion is included in a PTI Permit Strategy Write Up cite the Permit Number and copy/paste or summarize the determination here.

PTI No. N/A Discussion:

10. Please identify any **streamlining determinations** within the permit. Include an identification of the subsumed limit(s) and an explanation of how the resulting limit is equivalent to or more stringent than those subsumed. If the discussion exists in a PTI Permit Strategy Write Up, cite the Permit Number and summarize the determination here. This would also be noted for specific emissions units identified in C.

PTI No. N/A Discussion:

11. Please identify any current **enforcement actions** to address violations at the facility resulting in a compliance plan and schedule.

Director's Final
Findings and Orders;
AGO Consent Decree;
or U.S. EPA Consent
Decree Date: N/A

List the Order/Injunctive Relief number from the associated enforcement document and provide a description:

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2.	77-07(A)(13)		Insignificant emission units subject to requirements in a PTI, a federal rule requirement or otherwise subject to an <i>Applicable Requirement</i> .
B.3.		40 CFR Part 63, Subparts A and ZZZZ	Emission units subject to the requirements of 40 CFR Part 63, Subparts A and ZZZZ: P002, P003, P005, P006 and P007.
B.4.	25		The facility is subject to the applicable requirements established pursuant to OAC rule 3745-25
B.5.	20	40 CFR Part 61, Subpart M	Asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements.
B.6.		40 CFR Part 63, Subparts A and UUUUU	Emission units subject to the requirements of 40 CFR Part 63, Subparts A and UUUUU: B001, B002 and B009.



B.7.		40 CFR Part 63, Subparts A and DDDDD	Emission units subject to the requirements of 40 CFR Part 63, Subparts A and DDDDD: B008 and B010.
B.8.		40 CFR Part 60, Subparts A and Db	Emission unit subject to the requirements of 40 CFR Part 60, Subparts A and Db: B010.
B.9.		40 CFR Part 60, Subparts A and OOO	Emission unit subject to the requirements of 40 CFR Part 60, Subparts A and OOO: P901
B.10.	103	40 CFR Part 72 and 40 CFR Part 75	Acid rain program requirements
B.11.		40 CFR Part 64	Compliance Assurance Monitoring (CAM) requirements do not apply to the particulate emissions and opacity from emission units B001, B002 and B009.
B.12.	14	40 CFR Part 97, Subparts AAAAA through DDDDD	CSAPR requirements replace OAC rule 3745-14 requirements for B008 and B010.

B.13.		40 CFR Part 97, Subparts AAAAAA through DDDDD	Transport Rule (TR) Trading Program Requirements for B001, B002 and B009.
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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) Misc = miscellaneous requirements
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Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B008	Maximum heat input of 436,248 MMBtu/rolling 12	OAC rule 3745-31-05(D)	N	Y	Y	Y	Y	N	N	N	Restriction to qualify as limited use boiler under Subpart DDDDD.
B008 P008 P009 P010 P902 B001 B002 B009	PE shall not exceed 20 percent opacity as a six-minute average	OAC rule 3745-17-07(A)(1)	N	Y	Y	Y	Y	Y*	N	N	*If required



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B008 B010	PE shall not exceed 0.020 lb/MMBtu	OAC rule 3745-17-10(B)(1)	N	Y	Y	Y	Y	Y*	N	N	*If required
B008	SO2 shall not exceed 0.8 lb/MMBtu	OAC rule 3745-18-47(B)	N	Y	Y	Y	Y	Y*	N	N	*If required
B008 B010	Tune-up requirements	40 CFR Part 60, Subpart DDDDD	N	Y	Y	Y	Y	N	N	N	
B008 B001 B002 B009	General Provisions	40 CFR Part 63, Subpart A	N	N	Y	Y	Y	N	N	N	

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B010	42.87 tons of NOx per rolling 12 89.18 tons of CO per rolling 12 14.86 tons of SO2 per rolling 12 5.72 tons of PE per rolling 12 1.43 tons of VOC per rolling 12 571,660 MMBtu maximum heat input per rolling 12	OAC rule 3745-31-05(D)	N	Y	Y	Y	Y	Y	N	N	Restriction to qualify as a limited use boiler under Subpart DDDDD.



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B010	Install boiler designed to meet 0.15 lb NOx/MMBtu, 0.312 lb CO/MMBtu and 0.052 lb SO ₂ /MMBtu as three-hour averages	OAC rule 3745-31-05(A)(3) and ORC 3703.04(T)	N	Y	Y	Y	Y	Y*	N	N	*If required
B010	SO ₂ limitation is less stringent than the Db SO ₂ limitation	OAC rule 3745-18-47(B)	N	Y	Y	Y	Y	Y*	N	N	*If required
B010	PE shall not exceed 20 percent opacity as a six-minute average, except	40 CFR Part 60, Subpart Db	N	Y	Y	Y	Y	Y	N	N	

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	for not more than six consecutive minutes in any 60-minute period, but shall not exceed 27 percent opacity as a six-minute										
B010	General Provisions	40 CFR Part 60, Subpart A	N	Y	Y	Y	Y	Y	N	N	
B010	Table 1 from 40 CFR Part 63, Subpart DDDDD	40 CFR Part 63, Subpart A	N	Y	Y	Y	Y	N	N	N	
F001 F012	No VEs from paved roadways except for six	OAC rule 3745-17-07(B)(1)	N	N	Y	Y	Y	Y*	N	N	*If required

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	minutes every 60. No VEs from unpaved roadways except for 13 minutes every 60										
F001 F002 F003 F010 F012 P901 P902	RACM to minimize or eliminate fugitive dust	OAC rule 3745-17-08(B)	N	N	Y	Y	Y	N	N	N	M/R/RP are sufficient to demonstrate compliance.



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
F002	1.6 TPY PE, BACM to minimize or eliminate VE and compliance with the requirements of OAC rule 3745-17-07(B)(7)(b)	OAC rule 3745-31-05(A)(3)	N	N	Y	Y	Y	N	N	N	M/R/RP are sufficient to demonstrate compliance.
F002 F003 F010	VEs shall not exceed 20 percent opacity as a three-minute average	OAC rule 3745-17-07(B)(7)(b)	N	N	Y	Y	Y	Y*	N	N	*If required
F003	No VEs from any coal storage pile due to wind erosion except	OAC rule 3745-17-07(B)(7)(d)	N	N	Y	Y	Y	Y*	N	N	*If required

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	for 13 minutes during any 60										
F010	9.9 tons PE per rolling 12	OAC rule 3745-31-05(D)	N	Y	Y	Y	Y	N	N	N	M/R/RP are sufficient to demonstrate compliance.
F012	Fugitive PE shall not exceed 1.0 ton per month averaged over 12-month rolling period	OAC rule 3745-31-05(A)(3) and ORC 3704.03(T)	N	Y	Y	Y	Y	N	N	N	M/R/RP are sufficient to demonstrate compliance.
P008	1.28 TPY PE Install and operate bin vent filters with minimum 99 percent control	OAC rule 3745-31-05(E)	N	N	Y	Y	Y	N	N	N	



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P008	PE from any stack shall not exceed 92.7 lb/hr	OAC rule 3745-17-11(A)	N	N	N	N	N	Y*	N	N	*If required
P009	1.98 TPY PE Install and operate bin vent filters with minimum 99 percent control	OAC rule 3745-31-05(E)	N	N	Y	Y	Y	N	N	N	
P009	PE from any stack shall not exceed 100.97 lb/hr	OAC rule 3745-17-11(A)	N	N	N	N	N	Y*	N	N	*If required



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P010	PE and PM10 shall not exceed 0.011 gr/dscf 1.4 TPY PE Compliance with OAC rule 3745-17-07(A)	OAC rule 3745-31-05(A)(3)	N	Y	N	N	N	Y*	N	N	*If required
P010	OAC rule 3745-17-11(A) emission limitation less stringent than 31-05(A)(3) emission limitation	OAC rule 3745-17-11(A)	N	N	Y	Y	Y	Y*	N	N	*If required



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901	Gypsum throughput 1,472,500 TPY Limestone throughput 1,176,155 TPY 9.81 TPY PE	OAC rule 3745-31-05(E)	N	Y	Y	Y	Y	N	N	N	M/R/RP are sufficient to demonstrate compliance.
P901	PE from any stack shall not exceed 65.56 lb/hr	OAC rule 3745-17-11(B)	N	N	Y	Y	Y	Y*	N	N	*If required
P901	VE from stack 7 percent opacity VE of fugitives from transfer points/conveyor	40 CFR Part 60, Subpart OOO	N	Y	Y	Y	Y	Y	N	N	



Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	s/other affected shall not exceed 10 percent VE of fugitives from crusher shall not exceed 15 percent										
P901	Table 1 from 40 CFR Part 60, Subpart OOO	40 CFR Part 63, Subpart A	N	Y	Y	Y	Y	Y	N	N	
P902	PE, PM10 and PM2.5 shall not exceed 0.005 gr/dscf. 20.12 TPY of PE, PM10 and PM2.5	OAC rule 3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	Compliance with OAC rules 3745-17-07(A), 17-07(B) and 17-08(B)										
Section C.2: Emissions Unit Group – Main EGU Boilers B001, B002 and B009											
B001 B002 B009	B001 and B002 shall not exceed 1.056 lb SO ₂ /MMBtu on a rolling, 30-day average B009 shall not exceed 0.66 lb SO ₂ /MMBtu on a rolling, 30-day average	OAC rule 3745-31-05(F)	N	Y	Y	Y	Y	Y	Y	N	Required by Consent Decree (United States, et al. v. American Electric Power Service Corp., et al., Civil Action Nos. C2-99-1182 and C2-99-1250 and United States, et al. v. American Electric Power Service Corp., et al., Civil Action Nos. C2-04-1098 and C2-05-360).

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	B001, B002 and B009 shall not exceed 4,858.75 lb SO ₂ /hr as a rolling, 30-day average B001, B002 and B009 shall be equipped with FGD system and SCR system B001 and B002 shall not exceed 0.30 lb PE/MMBtu										
B001 B002 B009	B001, B002 and B009 SO ₂ limitation is equivalent to	OAC rule 3745-18-47(D)(1), (2) and (3)	N	Y	Y	Y	Y	Y	N	N	

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	the 31-05(F) limitation. SO2 emissions from B001, B002 and B009, combined, shall not exceed 4,858.75 lb/hr as a rolling, 30-day average										
B001 B002 B009	No associated emission limitations	40 CFR Part 75 and OAC Chapter 103	N	N	Y	Y	Y	Y	N	N	Acid rain, CEMS and QA/QC requirements
B001 B002	Except as otherwise provided...per	40 CFR Part 63, Subpart UUUUU	N	Y	Y	Y	Y	Y	N	N	



Draft Title V Permit
Cardinal Power Plant (Cardinal Operating Company)
Permit Number: P0137961
Facility ID: 0641050002
Statement of Basis

Emissions Unit Table

[illegible]



**Environmental
Protection
Agency**

DRAFT

**Division of Air Pollution Control
Title V Permit**

for

Cardinal Power Plant (Cardinal Operating Company)

Facility ID:	0641050002
Permit Number:	P0137961
Permit Type:	Renewal
Issued:	10/22/2026
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
Cardinal Power Plant (Cardinal Operating Company)

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Authorization

Facility ID:	0641050002
Facility Description:	Electric power generation
Application Number(s):	A0077895
Permit Number:	P0137961
Permit Description:	Electric power generation
Permit Type:	Renewal
Issue Date:	
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0133672

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

Cardinal Power Plant (Cardinal Operating Company)
306 County Road 7 East
Jefferson County
Brilliant, OH 43913-1088

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 St.
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

John Logue
Director

List of Commonly Used Abbreviations

AP-42 = U.S. EPA's Compilation of Air Pollution Emissions Factors	HVLP = high volume, low pressure	PER = Permit Evaluation Report
ASTM = American Society for Testing and Materials	LAER = lowest achievable emission rate	PM = particulate matter
BACT = Best Available Control Technology	lb(s)/hr = pound(s) per hour	PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns
BAT = Best Available Technology	LDAR = leak detection and repair	PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
CAA = Clean Air Act	LPG = liquefied petroleum gas/propane	ppb = parts per billion
CAM = compliance assurance monitoring	MACT = maximum achievable control technology	ppm = parts per million
CEMS = continuous emissions monitoring system	MAGLC = maximum acceptable ground level concentration	PSD = Prevention of Significant Deterioration
CFC = chlorofluorocarbon	mg/m ³ = milligrams per cubic meter	psi = pounds per square inch
CFR = Code of Federal Regulations	MM = million	psia = pounds per square inch absolute
CH ₄ = methane	MMBtu = million British Thermal Units	PTE = potential-to-emit
CI = compression ignition	MSDS = material safety data sheet	PTI = Permit-to-Install
CO = carbon monoxide	MSW = municipal solid waste	PTIO = Permit-to-Install and Operate
CO ₂ = carbon dioxide	NAAQS = National Ambient Air Quality Standard	PTO = Permit-to-Operate
COM = continuous opacity monitor	NESHAP = National Emission Standard for Hazardous Air Pollutants	PWR = process weight rate
DAPC = Division of Air Pollution Control	NG = natural gas	RACM = reasonably available control measures
DO/LAA = District Office/Local Air Agency	ng/m ³ = nanograms per cubic meter	RACT = reasonably available control technology
dscf = dry standard cubic foot	NH ₃ = ammonia	RATA = relative accuracy test audit
EAC = emissions activity category	NMHC = non-methane hydrocarbons	RTO = regenerative thermal oxidizer
eDocs = electronic documents database	NMOC = non-methane organic compound	SB265 = Senate Bill 265
ERAC = Environmental Review Appeals Commission	NO = nitrogen oxide	scfm = standard cubic feet per minute
ESP = electrostatic precipitator	NO ₂ = nitrogen dioxide	SI = spark ignition
EU = emissions unit	NO _x = nitrogen oxides	SIP = State Implementation Plan
FEPTIO = Federally Enforceable Permit-to-Install and Operate	NSPS = New Source Performance Standard	SO ₂ = sulfur dioxide
FER = Fee Emissions Report	NSR = New Source Review	SSMP = startup, shutdown, and malfunction plan
FR = Federal Register	NTV = Non-Title V	TDS = total dissolved solids
GACT = generally achievable control technology	O&M = operation and maintenance	TLV = threshold limit value
GHG = greenhouse gases	OAC = Ohio Administrative Code	TO = thermal oxidizer
gr/dscf = grains per dry standard cubic foot	OC = organic compound	TPH = ton(s) per hour
H ₂ S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H ₂ SO ₄ = sulfuric acid	ORC = Ohio Revised Code	TSP = total suspended particulates
HAP = hazardous air pollutant	Pb = lead	VE = visible particulate emissions
HCl = hydrogen chloride	PBR = Permit-By-Rule	VMT = vehicle miles traveled
HF = hydrogen fluoride	PCB = polychlorinated biphenyl	VOC = volatile organic compound
Hg = mercury	PE = particulate emissions	WPP = work practice plan
hp = horsepower	PEMS = predictive emissions monitoring system	µg/m ³ = micrograms per cubic meter

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., Submitting Documents Required by this Permit

[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 maintenance requests, 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.20, 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)(v)]

- (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 Exceedance 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 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 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, OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77-07(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 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 [defined as "Title I modification" in OAC rule 3745-77-01], 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 activities and emissions levels" as defined in OAC rule 3745-77-01. 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), 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.

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.

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 insignificant emission units listed below are subject to requirements contained in a permit-to-install, subject to a requirement in the SIP approved versions of OAC Chapters 3745-17, 3745-18, 3745-21, and 3745-31, subject to a federal rule requirement, or otherwise subject to an *Applicable Requirement*, as defined in OAC rule 3745-77-01:

EU ID	Operations, Property and/or Equipment Description
F004	Bottom ash handling and transport system (OAC Chapter 17)
F006	FGD Storage Piles - Limestone and gypsum storage piles (PTI P0122403, issued 11/10/2020)
F011	FGD Landfill operations (PTI P0122403, issued 11/10/2020)
P002	Unit 1 Diesel Fire Pump - Caterpillar 275 Horsepower Firefighting Water Pump (PBR02715 and MACT Subpart ZZZZ)
P003	Unit 2 Diesel Fire Pump - Caterpillar 275 Horsepower Firefighting Water Pump (PBR02716 and MACT Subpart ZZZZ)
P005	Units 1 and 2 FGD Emergency Generator, Cummins Power Model 400DFEH (PBR02718 and MACT Subpart ZZZZ)
P006	Unit 3 Diesel Fire Pump - Clarke 420 Horsepower firefighting water pump (PBR02719, NSPS Subpart IIII and MACT Subpart ZZZZ)
P007	Unit 3 FGD Emergency Generator - Caterpillar Model D125-6, 150 HP Emergency Generator (PBR06588, NSPS Subpart IIII and MACT Subpart ZZZZ)
P016	WWTP Chemical Handling (PTI P0138216, issued 7/1/2025)

Each insignificant emission unit at this facility must comply with all applicable state and federal regulations, as well as any emission limitations and/or control requirements contained within a permit-to-install for that emission unit.

[Authority for Term: OAC rule 3745-77-07(A)(13)]

3. The Ohio EPA has determined that this facility operates affected sources that are subject to the requirements of 40 CFR Part 63, Subpart ZZZZ, the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines. Ohio EPA is not accepting the delegation authority to implement and enforce the area source requirements of this NESHAP standard. The area source requirements

of this NESHAP standard are implemented and enforced by US EPA, Region V. The promulgated version of this NESHAP standard and the 40 CFR Part 63, General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://www.ecfr.gov> or by contacting Ohio EPA, Southeast District Office (SEDO).

The following affected sources are subject to the area source requirements of this NESHAP standard: emission units P002, P003, P005, P006 and P007.

[Authority for Term: 40 CFR Part 63, Subpart ZZZZ]

4. The facility is subject to the applicable requirements specified in OAC rule 3745-25. In accordance with Ohio EPA's Engineering Guide 64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from Ohio EPA.

[Authority for Term: OAC rule 3745-25]

5. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61, Subpart M and OAC Chapter 3745-20.

[Authority for Term: 40 CFR Part 61, Subpart M and OAC rule 3745-20-02]

6. The following emission units contained in this permit are subject to 40 CFR Part 63, Subparts A and UUUUU, NESHAP Coal- and Oil-fired Electric Utility Steam Generating Units: B001, B002 and B009 (Units 1, 2 and 3). The complete NESHAP requirements, including the NESHAP General Provisions may be accessed via the internet from the e-CFR website <http://www.ecfr.gov> or by contacting Ohio EPA, SEDO.

[Authority for Term: 40 CFR Part 63, Subpart UUUUU]

7. The following emission units contained in this permit are subject to 40 CFR Part 63, Subparts A and DDDDD, NESHAP Industrial, Commercial and Institutional Boilers and Process Heaters: B008 and B010. The complete NESHAP requirements, including the NESHAP General Provisions may be accessed via the internet from the e-CFR website <http://www.ecfr.gov> or by contacting Ohio EPA, SEDO.

[Authority for Term: 40 CFR Part 63]

8. The following emission unit contained in this permit is subject to 40 CFR Part 60, Subparts A and Db, Standards of Performance for Electric Utility Steam Generating Units (NSPS): B010. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the e-CFR website <http://www.ecfr.gov> or by contacting Ohio EPA, SEDO.

[Authority for Term: 40 CFR Part 60]

9. The following emission unit contained in this permit is subject to 40 CFR Part 60, Subparts A and OOO, NSPS for Nonmetallic Mineral Processing Plants: P901 (formerly F005). The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the e-CFR website <http://www.ecfr.gov> or by contacting Ohio EPA, SEDO.

[Authority for Term: 40 CFR Part 60]

10. Acid Rain Permits and Compliance

The permittee shall ensure that any affected unit complies with the requirements of 40 CFR Part 72, 40 CFR Part 75, and OAC Chapter 3745-103, which includes submitting timely permit applications.

Emissions exceeding any allowances that are lawfully held pursuant to this rule are prohibited. The requirements of this rule will be specified in the Title V permit issued to this facility.

[Authority for Term: 40 CFR Part 72, 40 CFR Part 75 and OAC Chapter 3745-103]

11. Pursuant to 40 CFR 64.2(b)(1)(vi), the quarterly PM emission testing for emission units B001, B002 and B009, required pursuant to 40 CFR Part 63, Subpart UUUUU, meets the definition of a “continuous compliance determination method” such that the CAM requirements of 40 CFR Part 64 do not apply to the PM SIP limit of 0.1 lb/MMBtu. Also, pursuant to 40 CFR 64.2(b)(1)(i), CAM does not apply to the 40 CFR Part 63, Subpart UUUUU limit of 0.3 lb/MMBtu.

[Authority for Term: 40 CFR Part 64]

12. NO_x Budget Program

- a) Pursuant to OAC rule 3745-14-01(C)(2)(a), emission units B001, B002 and B009 are exempt from OAC rule 3745-14 because they are subject to the federal CSAPR requirements from 40 CFR Part 97, Subparts AAAAA through DDDDD.

The emission units identified below are non-electric generating units (non-EGU) NO_x budget units and Clean Air Interstate Rule (CAIR) NO_x units, as defined in OAC rules 3745-14(C)(1)(b)(i) and (iii).

Emission Unit	Emission Unit Description
B008	Unit 3 Auxiliary Boiler
B010	Unit 1 and Unit 2 Auxiliary Boiler

The permittee shall comply with the NO_x monitoring, record keeping and reporting provisions of OAC Chapter 3745-14 applicable to owners/operators of non-EGU NO_x budget units.

[Authority for Term: OAC rules 3745-14-01(C)(1)(i) and (iii) and (C)(2)(a)]

- b) Monitoring, Record keeping and Reporting

Emission units B008 and B010 qualify for the low mass emission excepted methodology from 40 CFR 75.19 and are not subject to an acid rain emission limitation. The permittee shall meet the applicable general operating requirements from 40 CFR 75.10 and the applicable requirements from 40 CFR 75.19. The permittee shall also meet the applicable certification and recertification procedures of OAC rule 3745-14-08(B)(2), except that the excepted methodology shall be deemed provisionally certified for use under the NO_x budget program as of the dates specified in OAC rule 3745-14-08(B)(3)(a), (b) and (c).

[Authority for Term: OAC rule 3745-14-08(B)(3)]

13. Transport Rule (TR) Trading Program Requirements

- a) The permittee shall comply with all applicable Cross-State Air Pollution Rule (CSAPR) requirements (40 CFR Part 97, Subparts AAAAA through DDDDD) by the compliance date established in 40 CFR Part 97, Subparts AAAAA through DDDDD.
- b) The TR subject units, and the unit-specific monitoring provisions at this source, are identified in the following table. These units are subject to the requirements for the TR NO_x Annual Trading Program and TR NO_x Ozone Season Trading Program and/or TR SO₂ Group 1 Trading Program.

Emission Unit ID:			Emission Unit Description		
B001			5,275 MMBtu/hr pulverized coal-fired boiler (Unit 1)		
B002			5,275 MMBtu/hr pulverized coal-fired boiler (Unit 2)		
B009			5,275 MMBtu/hr pulverized coal-fired boiler (Unit 3)		
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR Part 75, Subpart B (for SO ₂ monitoring) and 40 CFR Part 75, Subpart H (for NO _x monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR Part 75, Appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR Part 75, Appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR Part 75, Subpart E
SO ₂	X				
NO _x	X				
Heat Input					

- c) The above descriptions of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, record keeping and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_x Annual Trading Program), 97.530 through 97.535 (TR NO_x Ozone Season Trading Program) and 40 CFR 97.630 through 97.635 (TR SO₂ Group 1 Trading Program), as applicable. The monitoring, record keeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.
- d) Owners and operators must submit to the Administrator, a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at EPA's website: <https://campd.epa.gov/>

- e) Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR Part 75, Subpart E and 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and 40 CFR Part 75, Subpart E and 40 CFR 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available at EPA's website: <https://campd.epa.gov/>
- f) Owners and operators that want to use an alternative to any monitoring, record keeping, or reporting requirements under 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and 40 CFR 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x ozone Season Trading Program) and 40 CFR 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, record keeping, or reporting requirement is available on EPA's website: <https://campd.epa.gov/>
- g) The descriptions of monitoring applicable to the unit included above meet the requirements of 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and 40 CFR 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add or to change this unit's monitoring system description.
- h) TR SO₂ Group 1 Trading Program Requirements

Designated representative requirements	97.606(a), 97.613-97.618
Emissions monitoring, reporting and recordkeeping requirements	97.606(b), 97.630-97.635
SO ₂ emissions requirements	97.606(c)
Title V permit revision requirements	97.606(d)
Additional recordkeeping and reporting requirements	97.606(e)
Liability	97.606(f)
Effect on other authorities	97.606(g)

- i) TR NO_x Ozone Season Trading Program Requirements

Designated representative requirements	97.506(a), 97.513-97.518
Emissions monitoring, reporting and recordkeeping requirements	97.506(b), 97.530-97.535
NO _x emissions requirements	97.506(c)
Title V permit revision requirements	97.506(d)

Additional recordkeeping and reporting requirements	97.506(e)
Liability	97.506(f)
Effect on other authorities	97.506(g)

j) TR SO₂ Group 1 Trading Program Requirements

Designated representative requirements	97.606(a), 97.613-97.618
Emissions monitoring, reporting and recordkeeping requirements	97.606(b), 97.630-97.635
SO ₂ emissions requirements	97.606(c)
Title V permit revision requirements	97.606(d)
Additional recordkeeping and reporting requirements	97.606(e)
Liability	97.606(f)
Effect on other authorities	97.606(g)

[Authority for Term: 40 CFR Part 97]

C. Emission Unit Terms and Conditions

1. B008, Unit 3 Auxiliary Boiler

Operations, Property and/or Equipment Description:

Babcock and Wilcox distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) steam boiler with a nominal capacity of 498 MMBtu/hr

- a) The following emission 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 Emission Limitations and/or Control Requirements

- (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor restrictions established in PTI P0118443, issued 1/25/2016, in order to restrict heat input in order to qualify as a "limited-use boiler" per 40 CFR Part 63, Subpart DDDDD)	See c)(1)
b.	OAC Chapter 3745-14	See B.12.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBtu of actual heat input
e.	OAC rule 3745-18-47(B)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.8 lb/MMBtu of actual heat input
f.	OAC rule 3745-110-03	See b)(2)a.
g.	40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 through 63.7575) [In accordance with 40 CFR 63.7485, 63.7490(d) and 63.7499(o), this emission unit is an existing limited-use industrial boiler subject to the emission limitations/control measures specified in this section.]	Tune up requirements [40 CFR 63.7500(c) and Table 3 of 40 CFR Part 63, Subpart DDDDD] See b)(2)b., b)(2)c. and c)(3)



h.	40 CFR Part 63, Subpart A (General Provisions 40 CFR 63.1 through 63.16)	40 CFR Part 63, Table 10 – Applicability of General Provisions to Subpart DDDDD identifies which parts of the General Provisions apply.
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(2) Additional Terms and Conditions

- a. This emission unit is not subject to the requirements of OAC rule 3745-110-03 because it is an existing emission unit and is not located in one of the affected counties included in OAC rule 3745-110-02(A)(1)(b).
- b. Per 40 CFR 63.7495(b), the permittee must comply with the requirements of 40 CFR Part 63, Subpart DDDDD for this emission unit no later than January 31, 2016.
- c. Per 40 CFR 63.7500(c) and 63.7575, this emission unit is a limited-use boiler and is not subject to the emission limits contained in Table 1 and Table 2, or Tables 11, 12 and/or 13 of 40 CFR Part 63, Subpart DDDDD, and the annual tune-up or the energy assessment requirements in Table 3 of 40 CFR Part 63, Subpart DDDDD or the operating limits from Table 4 of the same subpart.

[Authority for Terms b)(2)b. and b)(2)c.: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

c) Operational Restrictions

- (1) The maximum annual heating input for this emission unit shall not exceed 436,248 MMBtu per rolling, 12-month period.

[Authority for Term: OAC rule 3745-31-05(D) and OAC rule 3745-77-07(A)(1)]

- (2) The permittee shall burn only distillate oil in this emission unit. The distillate oil shall meet US EPA's specifications for Ultra Low Sulfur Diesel (ULSD) established pursuant to 40 CFR 80.510(c).

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

- (3) The permittee shall comply with the applicable restrictions established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFR 63.7500(c) and 63.7540(a)(12)	Complete a tune-up every five years
40 CFR 63.7510(e)	Complete the initial tune-up of the limited use boiler in accordance with 40 CFR 63.7540(a)(10)(i)-(vi) no later than the compliance date (January 31, 2016).
40 CFR 63.7515(d)	Conduct each 5-year tune-up no more than 61 months from the previous tune-up.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]



d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall maintain the following information for this emission unit on a monthly basis:
- a. the distillate oil usage (gal);
 - b. the heat input (MMBtu), calculated based on the heat content analyses required in d)(2), and the distillate oil usage from d)(1)a.; and
 - c. the rolling, 12-month summation of heat input (MMBtu)

This emission unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the distillate oil usage upon issuance of this permit.

[Authority for Term: OAC rule 3745-31-05(D) and OAC rule 3745-77-07(C)(1)]

- (2) The permittee shall perform or require the supplier to perform the analyses for heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (ASTM methods D240, etc.), or equivalent methods as approved by the Director.

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

- (3) The permittee shall maintain documents provided by the oil supplier for each shipment of distillate oil to demonstrate compliance with the ULSD requirement. These documents must include the receipt or bill of lading that includes confirmation that the fuel meets the number two diesel fuel ULSD standard.

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

- (4) The permittee shall comply with the applicable monitoring and record keeping requirements established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFRR 63.7525(k) and 63.7555(a)	Maintain copies of each notification and report submitted, a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler was operating.
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[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than distillate oil meeting US EPA's specifications for ULSD 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)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows an exceedance of the heat input limit of 436,248 MMBtu per rolling, 12-month period.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-77-07(A)(3)(c) and 3745-31-05(D)]

- (3) The permittee shall comply with the applicable reporting requirements established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFR 63.7530(f) and 63.7545(e)	Submit a Notification of Compliance Status in accordance with 40 CFR 63.9(h)(2) within 60 days of the compliance date.
40 CFR 63.7540(b), 63.7550 and Table 9	Submit five-year compliance reports containing the applicable information in 40 CFR 63.7550(c) and Table 9 by January 31. The first five-year compliance report must cover the period beginning on the compliance date and ending on December 31 within five years after the compliance date. Subsequent five-year compliance reports must cover the applicable five-year period from January 1 to December 31.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for Term: OAC rules 3745-17-03(B)(1)(a), 3745-17-17(A)(1) and 3745-77-07(C)(1)]

b. Emission Limitation:

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

Applicable Compliance Method:

Compliance with the PE limitation is demonstrated by multiplying the maximum fuel oil capacity of the emission unit (3,600 gal/hr) by the emission factor for number two



fuel oil (2.0 lb PE/1,000 gal) [AP-42, Table 1.3-1 (9/98)] and dividing the result by the maximum hourly heat input capacity of the emission unit (498 MMBtu/hr).

If required, the permittee shall demonstrate compliance with the PE limitation above in accordance with 40 CFR Part 60, Appendix A, Methods 1, 2, 3, 4 and 5 and the procedures specified in OAC rule 3745-17-03(B)(9) or other appropriate US EPA-approved methods.

[Authority for Term: OAC rules 3745-17-10(B)(1) and 3745-77-07(C)(1)]

c. Emission Limitation:

SO₂ emissions shall not exceed 0.8 lb/MMBtu of actual heat input

Applicable Compliance Method:

Compliance with the SO₂ emission limitation shall be demonstrated through the record keeping established in d)(4).

If required, the permittee shall demonstrate compliance with the allowable SO₂ emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1, 2, 3, 4 and 6 or other appropriate US EPA-approved methods.

[Authority for Term: OAC rules 3745-18-47(B) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

2. B010, Unit 1 and 2 Auxiliary Boiler

Operations, Property and/or Equipment Description:

Babcock and Wilcox Model FM 220-124 auxiliary steam boiler using only distillate oil (number 2 fuel oil and diesel fuel), or a blend of distillate oil (number 2 fuel oil and diesel fuel) and biodiesel fuel, with a nominal capacity of 652.58 million Btu/hr

- a) The following emission 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 Emission Limitations and/or Control Requirements

- (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (Synthetic minor restrictions established in PTI P0113983 issued 2/13/2014, in order to restrict heat input in order to qualify as a "limited-use boiler" per 40 CFR Part 63, Subpart DDDDD)	Emissions shall not exceed: 42.87 tons of nitrogen oxides (NO _x) per rolling, 12-month period 89.18 tons of carbon monoxide (CO) per rolling, 12-month period 14.86 tons of sulfur dioxide (SO ₂) per rolling, 12-month period 5.72 tons of particulate emissions (PE) per rolling, 12-month period 1.43 tons of volatile organic compounds (VOC) per rolling, 12-month period See c)(1)
b.	OAC rule 3745-31-05(A)(3) and ORC 3703.04(T) (PTI P0113983, issued 2/13/2014)	Install a boiler that is designed to meet 0.15 lb NO _x /MMBtu of actual heat input, as a three-hour average.



		Install a boiler that is designed to meet 0.312 lb CO/MMBtu of actual heat input, as a three-hour average. Install a boiler that is designed to meet 0.052 lb SO₂/MMBtu of actual heat input, as a three-hour average.
c.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC and PE from this air contaminant source since the potential to emit is less than 10 tons per year (TPY) considering the federally enforceable emission restrictions established pursuant to OAC rule 3745-31-05(D).
d.	OAC Chapter 3745-14	See B.12.
e.	OAC rule 3745-17-07(A)(1)	The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to 40 CFR Part 60, Subpart Db.
f.	OAC rule 3745-17-10(B)(1)	PE shall not exceed 0.020 lb/MMBtu of actual heat input.
g.	OAC rule 3745-18-47(B)	The SO ₂ emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart Db.
h.	OAC rule 3745-110-03(D)	Pursuant to OAC rule 3745-110-03(D)(9), this emission unit is exempt from the requirements of OAC rule 3745-110-03.
i.	40 CFR Part 60, Subpart Db (40 CFR 60.40b. through 60.49b) [In accordance with 40 CFR 60.40b(a) and 60.44b, this emission unit is a high heat release natural gas and distillate oil-fired industrial boiler for which construction, modification, or reconstruction commenced after June 19, 1984, and that has a maximum design heat input capacity of greater than 29 megawatts (MW) (100 MMBtu/hr) subject to the emission limitations and control measures specified in this section.]	Visible PE shall not exceed 20 percent opacity as a six-minute average, except for not more than six consecutive minutes in any 60-minute observation period, but shall not exceed 27 percent opacity, as a six-minute average, at any time. [40 CFR 60.43b(f)] The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-17-10(B)(1). [40 CFR 60.43b(h)(1)] See b)(2)a. and b)(2)b.



j.	40 CFR Part 60, Subpart A (40 CFR 60.1 through 60.19)	General Provisions
k.	40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 through 63.7575) [In accordance with 40 CFR 63.7485, 63.7490(d) and 63.7499(o), this emission unit is an existing, limited-use industrial boiler subject to the emission limitations/control measures specified in this section.]	Tune-up requirements [40 CFR 63.7500(c) and 40 CFR Part 63, Subpart DDDDD Table 3] See b)(2)c., b)(2)d. and c)(4)
l.	40 CFR Part 63, Subpart A (40 CFR 63.1 through 63.16)	40 CFR Part 63, Subpart DDDDD Table 10 identifies which portions of the General Provisions apply. [40 CFR 63.7565]

(2) Additional Terms and Conditions

- a. Pursuant to 40 CFR 60.42b(j) and (k)(2), this emission unit is exempt from the SO₂ emission limit in 40 CFR 60.42b(k)(1) and the reduction requirements in 40 CFR 60.42b(j) because only low sulfur fuel is employed.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 60, Subpart Db]

- b. Pursuant to 40 CFR 60.44b(l)(1), this emission unit is not subject to the NO_x limit because it is subject to and in compliance with a federally enforceable annual capacity factor of 10 percent or less. Thus, the NO_x limit in 40 CFR 60.44b does not apply.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 60, Subpart Db]

- c. Per 40 CFR 63.7495(b), the permittee must comply with the requirements of 40 CFR Part 63, Subpart DDDDD for this emission unit no later than January 31, 2016.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

- d. Per 40 CFR 63.7500(c), this emission unit is identified as a limited-use boiler and is not subject to the emission limits contained in Table 1 and Table 2 or Tables 11, 12 and 13, and/or the annual tune-up and the energy assessment requirements in Table 3, and/or the operating limits in Table 4 of 40 CFR Part 63, Subpart DDDDD.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

c) Operational Restrictions

- (1) The maximum annual heat input for this emission unit shall not exceed 571,660 MMBtu per rolling, 12-month period.

[Authority for Term: OAC rules 3745-31-05(D) and 3745-77-07(A)(1)]

- (2) The permittee shall burn only distillate oil in this emission unit. The distillate oil shall meet US EPA's specifications for Ultra Low Sulfur Diesel (ULSD) established pursuant to 40 CFR 80.510(c).

[Authority for Term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

- (3) The permittee shall comply with the applicable restrictions established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFR 63.7500(c) and 63.7540(a)(12)	Complete a tune-up every five years.
40 CFR 63.7510(e)	Complete the initial tune-up of the limited use boiler in accordance with 40 CFR 63.7540(a)(10)(i)-(vi) no later than the compliance date (January 31, 2016).
40 CFR 63.7515(d)	Conduct each five-year tune-up no more than 61 months from the previous tune-up.

[Authority for Term: OAC rule 3745-77-07(A)(1) and 40 CFR Part 63, Subpart DDDDD]

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall maintain the following information for this emission unit on a monthly basis:
- a. the distillate oil usage (gal);
 - b. the heat input (MMBtu), calculated based on the heat content analyses required in d)(2), and the distillate oil usage from d)(1)a.; and
 - c. the rolling, 12-month summation of heat input (MMBtu)

This emission unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the distillate oil usage upon issuance of this permit.

[Authority for Term: OAC rule 3745-31-05(D) and OAC rule 3745-77-07(C)(1)]

- (2) The permittee shall perform or require the supplier to perform the analyses for heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (ASTM methods D240, etc.), or equivalent methods as approved by the Director.

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

- (3) The permittee shall maintain documents provided by the oil supplier for each shipment of distillate oil to demonstrate compliance with the ULSD requirement. These documents must include the receipt or bill of lading that includes confirmation that the fuel meets the number two diesel fuel ULSD standard.

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

- (4) The permittee shall comply with the applicable monitoring and record keeping requirements established pursuant to 40 CFR Part 60, Subpart Db, including but not limited to the following sections:

40 CFR 60.42b(j)(2), 60.45b(k), 60.47b(f), 60.49b(d)(2) and 60.49b(r)	Maintain fuel records as described in 40 CFR 60.49b(r).
40 CFR 60.48b(j)(7)	Operate according to the written site-specific opacity monitoring plan approved by the permitting authority. See g)(1) below.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart Db]

- (5) The permittee shall comply with the applicable monitoring and record keeping requirements established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFR 63.7525(k) and 63.7555(a)	Maintain copies of each notification and report submitted, a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler was operating.
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[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DDDDD]

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than distillate oil meeting US EPA's specifications for ULSD 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)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows an exceedance of the heat input limit of 571,660 MMBtu per rolling, 12-month period.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-77-07(A)(3)(c) and 3745-31-05(D)]

- (3) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than distillate oil (number two fuel oil and diesel fuel), or a blend of distillate oil (number two fuel oil and diesel fuel) and biodiesel fuel 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)]

- (4) The permittee shall comply with the applicable reporting requirements established pursuant to 40 CFR Part 60, Subpart Db, including but not limited to the following sections:

40 CFR 60.49b(a)	Submit notifications as required in 40 CFR 60.7(a). The notification of the date of initial startup shall include the information in 40 CFR 60.49b(a)(1)-(4), as applicable.
40 CFR 60.49b(d)(2) and (k)	Submit the performance test data from the initial performance test.
40 CFR 60.49b(h), (v) and (w)	Submit excess emissions reports within 30 days of the end of each six-month reporting period.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart Db]

- (5) The permittee shall comply with the applicable reporting requirements established pursuant to 40 CFR Part 63, Subpart DDDDD, including but not limited to the following sections:

40 CFR 63.7530(f) and 63.7545(e)	Submit a Notification of Compliance Status in accordance with 40 CFR 63.9(h)(2) within 60 days of the compliance date.
40 CFR 63.7540(b), 63.7550 and Table 9	Submit five-year compliance reports containing the applicable information in 40 CFR 63.7550(c) and Table 9 by January 31. The first five-year compliance report must cover the period beginning on the compliance date and ending on December 31 within five years after the compliance date. Subsequent five-year compliance reports must cover the applicable five-year period from January 1 to December 31.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 63, Subpart DDDDD]

f) **Testing Requirements**

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

a. **Emission Limitations:**

42.87 tons of NO_x per rolling, 12-month period

89.18 tons of CO per rolling, 12-month period

14.86 tons of SO₂ per rolling, 12-month period

5.72 tons of PE per rolling, 12-month period

1.43 tons of VOC per rolling, 12-month period



Applicable Compliance Method:

Compliance with the applicable emission limitations are demonstrated through the record keeping established in d)(1) and the associated emission factors derived from the emission testing specified in f)(2).

[Authority for Term: OAC rule 3745-31-05(D) and 3745-77-07(C)(1)]

b. Emission Limitation:

Install a boiler that is designed to meet 0.15 lb NO_x/MMBtu of actual heat input, as a three-hour average.

Applicable Compliance Method:

This emission limitation is based on the results of the emission testing that was performed on February 1, 2007. See f)(2).

If required, NO_x emissions shall be determined in accordance with US EPA Methods 1, 2, 3, 4 and 7E as set forth in the "Appendix on Test Methods" from 40 CFR Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

c. Emission Limitation:

Install a boiler that is designed to meet 0.312 lb CO/MMBtu of actual heat input, as a three-hour average.

Applicable Compliance Method:

This emission limitation is based on the results of the emission testing that was performed on February 1, 2007. See f)(2).

If required, CO emissions shall be determined in accordance with US EPA Methods 1, 2, 3, 4 and 10 as set forth in the "Appendix on Test Methods" from 40 CFR Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

d. Emission Limitation:

Install a boiler that is designed to meet 0.052 lb SO₂/MMBtu of actual heat input, as a three-hour average.

Applicable Compliance Method:

This emission limitation is based on the results of the emission testing that was performed on February 1, 2007. See f)(2).

If required, SO₂ emissions shall be determined in accordance with US EPA Methods 1, 2, 3, 4 and 6 as set forth in the "Appendix on Test Methods" from 40 CFR Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

[Authority for Terms f)(1)b., f)(1)c. and f)(1)d.: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e. Emission Limitation:

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

Applicable Compliance Method:

This emission limitation is based on the results of the emission testing that was performed on February 1, 2007. See f)(2).

If required, PE shall be determined in accordance with US EPA Methods 1, 2, 3, 4 and 5, as set forth in the "Appendix on Test Methods" from 40 CFR Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

[Authority for Term: OAC rules 3745-17-10(B)(1), 3745-31-05(A)(3) and OAC rule 3745-77-07(C)(1)]

f. Emission Limitation:

Visible PE shall not exceed 20 percent opacity, as a six-minute average except for not more than six consecutive minutes in any 60 minutes, but shall not exceed 27 percent opacity, as a six-minute average, at any time.

Applicable Compliance Method:

Compliance with the visible PE limitation shall be demonstrated as outlined in g)(1).

If required, visible PE shall be determined according to US EPA Method 9.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart Db]

- (2) Testing to demonstrate compliance with the short-term emission limitations for PE, NO_x, CO and VOC was completed on February 1, 2007. The emission factors established are contained in the following table for reference:

Criteria Pollutant	Emission Factor
PE	0.02 lb/MMBtu
NO _x	0.15 lb/MMBtu
CO	0.312 lb/MMBtu
VOC	0.005 lb/MMBtu

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



g) Miscellaneous Requirements

- (1) The Cardinal Operating Company submitted a petition request to US EPA for an alternative opacity monitoring requirement in lieu of the continuous opacity monitoring system that is required by 40 CFR Part 60, Subpart Db.

Pursuant to that request, USEPA granted an alternative opacity monitoring protocol via a letter, dated March 15, 2006, to Mr. Douglas Shearn, Cardinal Plant Manager. The letter contained the following operating conditions and requirements:

- a. At the auxiliary boiler, Cardinal must not exceed a total annual heat input of 571,660 MMBtu, or 10 percent of its annual capacity. If Cardinal exceeds 571,660 MMBtu of total annual heat input, Cardinal must immediately submit to Ohio EPA and US EPA a schedule for installing and certifying a continuous opacity monitor (COM) within six months of the exceedance. Cardinal must immediately notify Ohio EPA and US EPA that Cardinal exceeded the 571,660 MMBtu/yr limit.
- b. Cardinal must conduct its routine operational checks during daylight hours only.
- c. At least once every four hours of operation, during daylight hours, an observer certified in accordance with US EPA Method 9 must perform three, six-minute observations of the auxiliary boiler exhaust stack. If any six-minute average opacity readings exceed 20 percent, the observer must collect two additional six-minute sets of visible emission readings.
- d. Cardinal must maintain on-site, for a period of five years from the date of observation, records of the date and time of visible emission observations, along with the results of each observation.
- e. Cardinal must maintain onsite, for a period of five years, records of the auxiliary boiler's heat input.
- f. Within 30 days of the end of each calendar quarter, Cardinal must submit to Ohio EPA and USEPA excess emission reports. The excess emission reports must identify the total heat input and number of hours of operation in that quarter, the total heat input and number of hours of operation in previous quarters within the same calendar year, the total number of observations performed under the above conditions and any excess opacity readings observed. The excess emission report shall denote that the boiler must comply with a 20 percent opacity limit as a six-minute average.
- g. Cardinal shall maintain the boiler in accordance with good air pollution control practices.

[Authority for Term: PTI P0113983, OAC rule 3745-77-07(C)(1) and 40 CFR Part 60, Subpart Db]

3. F001, Roadways & Parking

Operations, Property and/or Equipment Description:

Plant roadways and parking areas

- a) The following emission 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 Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(7)(a)(ii)	No visible emissions of fugitive dust from the paved roadways and/or parking areas except for a period of time not to exceed six minutes during any 60-minute observation period. No visible emissions of fugitive dust from the unpaved roadways and/or parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.
b.	OAC rule 3745-17-08(B) (Paved roadways and parking areas)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a., b)(2)b, b)(2)c., b)(2)e., b)(2)g. and b)(2)h.
c.	OAC rule 3745-17-08(B) (Unpaved roadways and parking areas)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a., b)(2)d., b)(2)e., b)(2)f., b)(2)g. and b)(2)h.

(2) Additional Terms and Conditions

- a. The roadway and parking areas that are covered by this permit and are subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Paved Roadways Sections	Paved Parking	Unpaved Roadway Sections	Unpaved Parking
All paved sections	All paved parking	All unpaved sections	All unpaved parking

- b. The permittee shall employ reasonably available control measures on all paved roadway sections and parking areas for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 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. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals and/or by resurfacing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. 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 a paved or unpaved 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- f. Any unpaved roadway or parking area, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled by employing the appropriate control measure for paved surfaces. Any unpaved roadway or parking area that takes the characteristics

of a paved roadway or parking area due to the application of certain type(s) of dust suppressant(s) shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

- g. 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.
- h. Implementation of the control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

[Authority for Terms b)(2)a., b)(2)b., b)(2)c., b)(2)d., b)(2)e., b)(2)f., b)(2)g. and b)(2)h.: OAC rules 3745-17-08(B) and 3745-77-07(A)(1)]

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

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

Paved roadway sections and parking areas	Minimum inspection frequency
All paved roadway sections and parking areas	Weekly, when in use
Unpaved roadway sections and parking areas	Minimum inspection frequency
All unpaved roadway sections and parking areas	Weekly, when in use

- (2) The purpose of the inspections is to determine the need for implementing the appropriate control measure(s). 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 applicable requirements. Any required inspection that is not performed due to any of the 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 Terms d)(1) and d)(2): OAC rules 3745-17-07(B) and 3745-77-07(C)(1)]

- (3) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject



to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

(4) 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/ice cover/precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement 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 to days where snow/ice/precipitation were sufficient to not require the control measures.

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

[Authority for Term: OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. each week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to sufficient snow/ice/precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not employed.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements established pursuant to the Standard Terms and Conditions of this permit.

[Authority for Term: OAC rules 3745-15-03(B)(1)a., 3745-15-03(C) and 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

No visible emissions of fugitive dust from the paved roadways and parking areas except for a period of time not to exceed six minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to US EPA Method 22, with the modifications found in OAC rule 3745-17-03(B)(4).



b. Emission Limitation:

No visible emissions of fugitive dust from the unpaved roadways and parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to US EPA Method 22, with the modifications found in OAC rule 3745-17-03(B)(4).

[Authority for Terms f)(1)a. and f)(1)b.: OAC rules 3745-17-07(B), 3745-17-03(B)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

4. F002, Coal Handling and Transport Operations

Operations, Property and/or Equipment Description:

Coal handling and transport operations installed prior to 1974; includes conveyors, chutes, gates, hoppers, trippers, samplers, scales, tramp iron removal, transfer stations, silos and stackers controlled with enclosures, dust suppression, dust collection and ventilating systems

- a) The following emission 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 Emission Limitations and/or Control Requirements

- (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0122403, issued 11/10/2020)	Particulate emissions (PE) from the radial stacker shall not exceed 1.60 tons per year (TPY) The radial stacker shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(7)(b) for the radial stacker. See b)(2)a., b)(2)b., b)(2)c. and b)(2)d.
b.	OAC rule 3745-17-07(B)(7)(b)	Visible PE shall not exceed 20 percent opacity as a three-minute average for any material handling operation.
c.	OAC rule 3745-17-08(B)(6)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a., b)(2)b., b)(2)c. and b)(2)d.



(2) Additional Terms and Conditions

- a. The coal material handling operations that are covered by this permit and subject to the requirements of OAC rule 3745-17-07 and 3745-17-08 include:

bucket ladder unloading station
railcar rotary dumping station
all coal transfer points at the facility (conveyor to conveyor, conveyor loading and unloading, etc.
mobile coal handling equipment (pan scraper, front-end loader, bulldozer, etc.
under pile gravity load-out to conveyor
Loading or stacker belt conveyor
Stacker belt conveyor to radial stacker

- b. The permittee shall employ best/reasonably available control measure(s) on all coal unloading stations for barges, railcars and/or trucks, coal conveyors, coal handling operations, and coal transfer points for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ the partial enclosures for the coal conveying operations, employ total enclosures for the coal transfer points and treat the coal unloading stations and coal handling 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.
- c. For each coal conveyor and transfer point that is not adequately enclosed, such conveyor or transfer point shall be treated with water and/or suitable dust suppression chemicals if the permittee determines, as a result of the inspection required by d)(1), that the control measures are necessary to ensure compliance with the applicable requirements. Any required implementation of the control measure(s) shall continue during operation of any coal conveyor or coal transfer point until further observation confirms that use of the control measure is no longer necessary.
- d. Implementation of the control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05(A)(3).

[Authority for Terms b)(2)a., b)(2)b., b)(2)c. and b)(2)d.: OAC rules 3745-17-08(B)(6) and 3745-77-07(A)(1)]

c) Operational Restrictions

(1) None.

d) Monitoring and/or Record keeping Requirements

(1) For coal material handling operations that are not adequately enclosed, the permittee shall perform inspections of such material handling stations in accordance with the following frequencies:

Coal Material Handling Operations	Minimum Inspection Frequency
bucket ladder unloading station; railcar rotary dumping station; all coal transfer point; mobile coal handling equipment; under pile gravity load-out to conveyor; loading of stacker belt conveyor; and stacker belt conveyor to radial stacker	Weekly, when in operation

The inspections shall be performed during representative, normal operating conditions.

[Authority for Term: OAC rules 3745-17-07(B)(7)(b), 3745-17-08(B)(6) and 3745-77-07(C)(1)]

(2) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

[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;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
- c. the date(s) the control measure(s) were implemented; and
- d. on a calendar quarter basis, the total number of days the control measure(s) were implemented.

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

coal unloading stations	coal conveyors
coal handling operations	coal transfer points

[Authority for Term: OAC rules 3745-17-07(B)(7)(b), 3745-17-08(B)(6) and 3745-77-07(C)(1)]

e) **Reporting Requirements**

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. each week during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not employed.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements established pursuant to the Standard Terms and Conditions of this permit.

[Authority for Term: OAC rules 3745-15-03(B)(1)a., 3745-15-03(C) and 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emission Limitation:

Fugitive PE from the radial stacker shall not exceed 1.60 TPY

Applicable Compliance Method:

Compliance with the annual emission limitation for the radial stacker is demonstrated through the following calculation based on the emission factors in AP-42 section 13.2.4 (11/2006), a maximum annual throughput of 17,870,400 TPY of coal, two transfer points and a control efficiency of 90 percent for watering/chemical dust suppression and enclosures:

$$EF = k(0.0032)(U/5)^{1.3} / [(M/2)^{1.4}] = 0.000898 \text{ lb PE/ton}$$

Where:

k = 0.74 (particle size multiplier)

U = 9 mph (mean wind speed from permittee's application)

M = 6.9 percent (moisture content from permittee's application)



PE (TPY)

= coal EF (lb PE/ton) * max annual throughput (TPY) * number of transfer points / 2,000 lb/ton

= 0.000898 lb PE/ton * 17,870,400 TPY * two transfer points / 2,000 lb/ton = 1.60 TPY PE

[Authority for Term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible PE shall not exceed 20 percent opacity as a three-minute average for any material handling operation.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-07(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-07-07(B)(7)(b), 3745-17-03(B)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

5. F003, Coal Storage Piles

Operations, Property and/or Equipment Description:

Coal storage piles

- a) The following emission 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 Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-17-07(B)(7)(b)	Visible particulate emissions (PE) shall not exceed 20 percent opacity as a three-minute average for coal storage pile load-in/out. See b)(2)a.
b.	OAC rule 3745-17-07(B)(7)(c)	Visible PE shall not exceed 20 percent opacity as a three-minute average from vehicular traffic on the coal storage piles (not applicable to vehicular fuel combustion emissions). See b)(2)a.
c.	OAC rule 3745-17-07(B)(7)(d)	No visible PE from any coal storage pile due to wind erosion, except for 13 minutes during any 60-minute observation period. See b)(2)a.
d.	OAC rule 3745-17-08(B)(6)	Reasonable available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a., b)(2)b., b)(2)c., b)(2)d., b)(2)e., b)(2)f. and b)(2)g.

(2) Additional Terms and Conditions

- a. The coal storage pile activities that are covered by this permit and are subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 include:

load-in of all coal storage piles	load-out of all coal storage piles
maintenance of coal storage piles	wind erosion of coal storage piles

- b. The permittee shall employ reasonably available control measures on all coal load-in/out operations associated with the coal storage piles for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's application, the permittee has committed to employ enclosures for load-in operations and employ under pile gravity load-out to covered conveyors to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The control measures shall be employed for each coal load-in/out operation for each coal storage pile if the permittee determines, as a result of the inspection required by d)(1), that the control measures are necessary to ensure compliance with the applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that the use of the control measures is no longer necessary.
- d. The permittee shall employ reasonably available control measures on all coal storage pile maintenance operations for the purpose of ensuring compliance with the applicable requirements. The permittee shall employ good operating practices for the coal storage pile working operations to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The permittee shall employ reasonably available control measures for wind erosion from coal storage pile surfaces for the purpose of ensuring compliance with applicable requirements. In accordance with the permittee's application, the permittee has committed to reduce the height of the coal storage piles and/or compact the coal storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The control measures shall be employed for each coal storage pile working operation and wind erosion from each coal storage pile if the permittee determines, as a result of the inspection required by d)(10), that the control measure(s) are necessary to ensure compliance with the applicable requirements. Implementation of the control measure(s) shall not be necessary for a coal storage pile that is covered with sufficient snow/ice/precipitation to ensure compliance with the applicable requirements.

- g. Implementation of the control measures in accordance with the terms and conditions of this permit are appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

[Authority for Terms b)(2)a., b)(2)b., b)(2)c., b)(2)d., b)(2)e., b)(2)f. and b)(2)g.: OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(A)(1)]

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from coal storage pile surfaces as follows:

Coal storage pile identification	Minimum wind erosion inspection frequency
all coal storage piles at facility	weekly, when in operation

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each pile maintenance operation as follows:

Coal storage pile identification	Minimum coal pile maintenance inspection frequency
all coal piles at facility	weekly, when in operation

- (3) Except as otherwise provided in this section, the permittee shall perform inspections of each coal load-in/out operation as follows:

Coal storage pile identification	Minimum coal load-in/out inspection frequency
All coal piles at facility	Weekly, when in operation

- (4) No inspection shall be necessary for wind erosion from the surface of the coal storage pile(s) when the pile(s) are covered with sufficient snow/ice/precipitation to ensure compliance with the applicable requirements. Any required inspection that is not performed due to sufficient snow/ice/precipitation shall be performed as soon as such event(s) have ended, except if the next required inspection is within one week.

- (5) The purpose of the inspections is to determine the need to implement the control measures specified in this permit for coal load-in/out of a coal storage pile, pile working operations, and for wind erosion from the surface of the coal storage pile. The inspections shall be performed during representative, normal pile operating conditions.



[Authority for Terms d)(1), d)(2), d)(3), d)(4) and d)(5): OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(C)(1)]

- (6) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

- (7) 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 sufficient snow/ice/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 sufficient snow/ice/precipitation occurred to ensure compliance.

The information required in d)(7)d. shall be updated on a calendar quarter basis within 30 days of the end of the calendar quarter and shall be maintained separately for:

coal load-in operations	coal load-out operations
coal pile working operations	coal pile surfaces for wind erosion

[Authority for Term: OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- each week during which the required inspection was not performed, excluding an inspection which was not performed due to sufficient snow/ice/precipitation; and
 - each instance when a control measure, that was to be implemented as a result of an inspection, was not employed.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements established pursuant to the Standard Terms and Conditions of this permit.

[Authority for Term: OAC rules 3745-15-03(B)(1)a., 3745-15-03(C) and 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emission Limitation:

Visible PE shall not exceed 20 percent opacity as a three-minute average for the load-in/out of coal storage piles

Applicable Compliance Method:

If required, visible PE shall be determined in accordance with US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(B)(7)(b) and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible PE shall not exceed 20 percent opacity as a three-minute average from the operation of vehicles on the coal storage piles (not fuel combustion)

Applicable Compliance Method:

If required, visible PE shall be determined in accordance with US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(B)(7)(c) and 3745-77-07(C)(1)]

c. Emission Limitation:

There shall be no visible PE from any coal storage pile due to wind erosion, except for a period not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, visible PE shall be determined in accordance with US EPA Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

[Authority for Term: OAC rule 3745-17-07(B)(7)(d) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.

6. F010, Coal Truck Dump and Conveyor

Operations, Property and/or Equipment Description:

Coal truck drive-over dump and conveyor that replaced the original truck dump station

- a) The following emission 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 Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/2006	The Best Available Technology (BAT) requirements assigned pursuant to OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) from this air contaminant source since the potential to emit for PE is less than 10 tons per year (TPY) considering the federally enforceable restrictions established under OAC rule 3745-31-05(D).
b.	OAC rule 3745-31-05(D) [Synthetic minor restriction to avoid PSD major modification and BAT requirements for PE, established in PTI 06-8163, issued 4/5/2007]	PE shall not exceed 9.9 tons per rolling, 12-month period See c)(1)
c.	OAC rule 3745-17-07(B)(7)(b)	Visible PE shall not exceed 20 percent opacity as a three-minute average
d.	OAC rule 3745-17-08(B)(6)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a., b)(2)b. and b)(2)c.



(2) Additional Terms and Conditions

- a. The permittee shall employ reasonably available control measures for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain partial enclosures (3/4 conveyor covers), full enclosures and a dust control fogging system, to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. For each material handling operation that is not adequately enclosed, the identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to d)(2), that the control measure(s) is/are necessary to ensure compliance with the applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the coal truck dump and conveyor until further observation confirms that use of the control measure(s) is no longer necessary.
- c. Implementation of the control measure(s) in accordance with the terms and conditions of this permit are appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

[Authority for Terms b)(2)a., b)(2)b. and b)(2)c.: OAC rules 3745-17-08(B)(6) and 3745-77-07(A)(1)]

c) Operational Restrictions

- (1) The material throughput for the coal truck dump station shall not exceed 3,500,000 tons, based on a rolling, 12-month summation of material throughput.

[Authority for Term: OAC rules 3745-31-05(D) and 3745-77-07(A)(1)]

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall maintain monthly records of the following information for the coal truck dump station to monitor compliance with the applicable material throughput restriction:
 - a. the material throughput (ton/month); and
 - b. the rolling, 12-month summation of the material throughput (tons)

This emission unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the material throughput upon issuance of this permit.

[Authority for Term: OAC rules 3745-31-05(D) and 3745-77-07(A)(1)]

For coal material handling operations that are not adequately enclosed, the permittee shall perform inspections of the coal unloading stations as follows:



Coal truck unloading stations	Minimum inspection frequency
truck unloading to dump bins; dump bin transfer to coal conveyor; and coal conveyor transfer to silo 6	Weekly, when in operation

The inspections shall be performed during representative, normal operating conditions.

[Authority for Term: OAC rules 3745-17-07(B)(7)(b), 3745-17-08(B)(6) and 3745-77-07(C)(1)]

- (2) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

[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;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement control measures;
 - the date(s) the control measures were implemented; and
 - On a calendar quarter basis, the total number of days the control measure(s) were implemented.

The information required in d)(4)d. shall be kept separately for each portion of the truck unloading operation, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[Authority for Term: OAC rules 3745-17-07(B)(7)(b), 3745-17-08(B)(6) and 3745-77-07(C)(1)]

e) **Reporting Requirements**

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify any record which shows an exceedance of the material throughput limitation of 3,500,000 tons per rolling, 12-month period.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-77-07(A)(3)(c) and 3745-31-05(D)]

- (2) The permittee shall submit semi-annual deviation (excursion) reports that identify:
- Each day during which an inspection was not performed by the required frequency; and



- b. Each instance when a control measure, that was to be implemented as a result of an inspection, was not employed.

The semi-annual deviation (excursion) reports shall be submitted in accordance with the reporting requirements established pursuant to the Standard Terms and Conditions of this permit.

[Authority for Term: OAC rules 3745-15-03(B)(1)a., 3745-15-03(C) and 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

- a. Emission Limitation:

PE shall not exceed 9.9 tons per rolling, 12-month period

Applicable Compliance Method:

Compliance with the rolling, 12-month PE limitation shall be demonstrated through the record keeping established in d)(1), the equations in AP-42 13.2.4 (11/2006) and the information contained in the permittee's application.

[Authority for Term: OAC rules 3745-31-05(D) and 3745-77-07(C)(1)]

- b. Emissions Limitation:

Visible PE shall not exceed 20 percent opacity as a three-minute average

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(B)(7)(b), 3745-17-03(B)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.

7. F012, Landfill Roadways

Operations, Property and/or Equipment Description:

FGD Landfill Roadways - Residual waste landfill paved and unpaved roadways for gypsum, WWTP sludge, Fly Ash Cake disposal and bottom ash

a) The following emission 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 Emission Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3) [PTI P0122403, issued 11/10/2020]	Fugitive particulate emissions (PE) shall not exceed 1.0 ton per month, averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A) do not apply to the fugitive particulate emissions less than 10 microns in diameter (PM ₁₀) or to the fugitive particulate emissions less than 2.5 microns in diameter (PM _{2.5}) from this air contaminant source since the potential to emit is less than 10 tons per year (TPY).
c.	OAC rule 3745-17-07(B)(7)(a)(ii)	No visible PE from the paved roadways or parking areas except for a period of time not to exceed six minutes during any 60-minute observation period. No visible PE from unpaved roadways or parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period.

d.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a., b)(2)b., b)(2)c., b)(2)d and b)(2)e.
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(2) Additional Terms and Conditions

- a. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the paved 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 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 d)(1). Implementation of the control measures shall not be necessary for paved roadways and parking areas that are covered with snow/ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the 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 control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

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



Paved/unpaved roadway and parking areas	Minimum inspection frequency
all roads and parking areas	weekly

- (2) The purpose of the inspections is to determine the need for implementing the 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/ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the applicable requirements. Any required inspection that is not performed due to snow/ice/sufficient precipitation shall be performed as soon as such event(s) has/have ended, except if the next required inspection is within one week.

[Authority for Terms d)(1) and d)(2): OAC rules 3745-17-08(B) and 3745-77-07(C)(1)]

- (3) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

- (4) 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 sufficient snow/ice/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/ice/precipitation were sufficient to not require control measures.

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

[Authority for Term: OAC rules 3745-17-08(B) and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- each week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to sufficient snow/ice/precipitation; and



- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-17-08(B) and 3745-77-07(C)(1)]

f) Testing Requirements

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

- a. Emission Limitation:

Fugitive PE shall not exceed 1.0 ton per month averaged over a 12-month rolling period

Applicable Compliance Method:

Compliance with the fugitive PE limitation shall be determined using emission factor equations in AP-42, Section 13.2.1 for paved roadways (1/2011) and Section 13.2.2 for unpaved roadways (11/2006), a maximum of 556,324 vehicle miles traveled per year (VMT/yr) on paved roadways, a maximum of 38,782 VMT/yr on unpaved roadways, a 97.7 percent control efficiency for sweeping and watering paved roadways, a 95 percent control efficiency for waster of unpaved roadways and the information presented in the permittee's application (A0064025).

[Authority for Term: ORC 3704.03(T) and OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitations:

No visible PE from paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

No visible PE from unpaved roadways or parking areas except for a period of time not to exceed three minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, visible emissions of fugitive dust shall be determined according to US EPA Method 22, with the modifications found in OAC rule 3745-17-03(B)(4).

[Authority for Term: OAC rules 3745-17-08(B) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.

8. P008, Unit 3 SO3 Mitigation System

Operations, Property and/or Equipment Description:

Materials unloading and handling for SO3 mitigation systems for Unit 3; includes pneumatic truck unloading of trona and lime into silos controlled with bin vents (formerly permitted as EU F008 when the Unit 3 system was installed)

- a) The following emission 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 Emission Limitations and/or Control Requirements

- (1) The specific operation(s), property, and/or equipment that constitute each emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE), emissions of particulate material less than 10 microns in diameter (PM ₁₀) and emissions of particulate material less than 2.5 microns in diameter (PM _{2.5}) from this air contaminant source as the potential to emit for these air contaminants is less than 10 tons per year (TPY) considering the state-only restrictions established pursuant to OAC rule 3745-31-05(E).
b.	OAC rule 37475-31-05(E) [State-only restriction to avoid BAT] [PTI P0122403, issued 11/10/2020]	PE shall not exceed 1.28 TPY Install and operate bin vent filters with a minimum 99 percent control efficiency See b)(2)a.
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.



d.	OAC rule 3745-17-11(A)	PE from the stack(s) serving this emission unit shall not exceed 92.7 pounds per hour (lb/hr)
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(2) Additional Terms and Conditions

- a. The emissions from this emission unit shall be vented to a baghouse with a minimum 99 percent control efficiency at all times when the emission unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall perform daily checks, when the emission unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emission 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. 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under d)(1)d., or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emission unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective action(s) that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate the abnormal visible emissions.

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(A)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all days during which any visible PE was observed from any stack serving this emission unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.



The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-31-05(E), 3745-17-08(B) and 3745-77-07(C)(1)]

f) Testing Requirements

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

a. Emission Limitation:

PE shall not exceed 1.28 TPY

Applicable Compliance Method:

The TPY PE limit is based on the following calculation:

$PE/PM_{10}/PM_{2.5} \text{ (TPY)} =$

$[(0.01 \text{ gr/dscf} * 1,100 \text{ acfm} * 2 \text{ bin vents}) + (0.01 \text{ gr/dscf} * 300 \text{ acfm} * 4 \text{ bin vents}) * 1 \text{ lb/7,000 gr} * 60 \text{ min/hr} * 8,760 \text{ hr/yr} / 2,000 \text{ lb/ton}] = 1.28 \text{ TPY}$

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(A) and 3745-77-07(C)(1)]

c. Emission Limitation:

PE from any stack serving this emission unit shall not exceed 92.7 lb/hr

Applicable Compliance Method:

If required, PE shall be determined according to test Methods 1, 2, 3, 4 and 5, as set forth in the "Appendix on Test Method" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources", and the procedures specified in OAC rule 3745-17-03(B)(10). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

[Authority for Term: OAC rules 3745-17-11(A) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.

9. P009, Lime Materials Handling for WWTP

Operations, Property and/or Equipment Description:

Unit 1 and 2 FGD Wastewater Treatment Plant Chemical Handling (formerly F009)

- a) The following emission 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 Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE), emissions of particulate material less than 10 microns in diameter (PM ₁₀) and emissions of particulate material less than 2.5 microns in diameter (PM _{2.5}) from this air contaminant source as the potential to emit for these air contaminants is less than 10 tons per year (TPY) considering the state-only restrictions established pursuant to OAC rule 3745-31-05(E).
b.	OAC rule 3745-31-05(E) [State-only restriction to avoid BAT] [PTI P0122403, issued 11/10/2020]	PE shall not exceed 1.98 TPY Install and operate bin vent filters with a minimum 99 percent control efficiency. See b)(2)a.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

d.	OAC rule 3745-17-11(A)	PE from any stack serving this emission unit shall not exceed 100.97 pounds per hour (lb/hr)
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(2) Additional Terms and Conditions

- a. The emissions from this emission unit shall be vented to bin vent filters with a minimum 99 percent control efficiency at all times when this emission unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall perform daily checks, when the emission unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emission 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. 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under d)(1)d., or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emission unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective action(s) that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate the abnormal visible emissions.

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(A)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all days during which any visible PE was observed from any stack serving this emission unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-31-05(E), 3745-17-08(B) and 3745-77-07(C)(1)]

f) **Testing Requirements**

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

a. Emission Limitation:

PE shall not exceed 1.98 TPY

Applicable Compliance Method:

The TPY PE limit is based on the following calculation:

$PE/PM_{10}/PM_{2.5} \text{ (TPY)} =$

$(0.022 \text{ gr/dscf} * 1,200 \text{ acfm} * 2 \text{ bin vents}) * 1 \text{ lb/7,000 gr} * 60 \text{ min/hr} * 8,760 \text{ hr/yr} / 2,000 \text{ lb/ton} = 1.98 \text{ TPY}$

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(C)(1)]

b. Emission Limitation:

Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(A) and 3745-77-07(C)(1)]

c. Emission Limitation:

PE from any stack serving this emission unit shall not exceed 100.97 lb/hr

Applicable Compliance Method:

If required, PE shall be determined according to test Methods 1, 2, 3, 4 and 5, as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources", and the procedures specified in OAC rule 3745-17-03(B)(10). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

g) **Miscellaneous Requirements**

- (1) None.

10. P010, Units 1 and 2 SO3 Mitigation System

Operations, Property and/or Equipment Description:

SO3 mitigation system for Units 1 and 2 (formerly permitted as EU F008 prior to the addition of the Unit 3 SO3 mitigation system)

- a) The following emission 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 Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0122403, issued 11/10/2020)	Particulate emissions (PE) and emissions of particulate material less than 10 microns in diameter (PM ₁₀) from any stack serving this emission unit shall not exceed 0.011 gr/dscf PE shall not exceed 1.40 tons per year (TPY) The requirements of this rule include compliance with OAC rule 3745-17-07(A) See b)(2)a.
b.	OAC rule 3745-17-11(A)	The emission limitation established pursuant to this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(A)	Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.



(2) Additional Terms and Conditions

- a. The emissions from the pneumatic truck unloading of hydrated lime and trona shall be vented to baghouses with a minimum of 99 percent control efficiency at all times when this emission unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall perform daily checks, when the emission unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emission 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. 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under d)(1)d., or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emission unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective action(s) that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate the abnormal visible emissions.

[Authority for Term: OAC rules 3745-31-05(A)(3), 3745-17-08(B) and 3745-77-07(A)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all days during which any visible PE was observed from any stack serving this emission unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-31-05(A)(3), 3745-17-08(B) and 3745-77-07(C)(1)]

f) Testing Requirements

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

a. Emission Limitations:

PE, PM₁₀ and PM_{2.5} emissions from any stack serving this emission unit shall not exceed 0.011 gr/dscf

Applicable Compliance Method:

The grain loading limitation is based on the baghouse information contained in the permittee's application.

If required, PE shall be determined according to test Methods 1, 2, 3, 4 and 5, as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources", and the procedures specified in OAC rule 3745-17-03(B)(9).

If required, PM₁₀ and PM_{2.5} emissions shall be determined according to test Methods 201/201A and 202, as set forth in 40 CFR Part 51, Appendix M. Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

b. Emission Limitation:

PE shall not exceed 1.40 TPY

Applicable Compliance Method:

The TPY PE limitation is based on the following calculation and the worst case of the three control systems as follows:

PE/PM₁₀/PM_{2.5} (TPY) =

$$(0.011 \text{ gr/dscf} * 1,100 \text{ acfm} * 2) + (0.011 \text{ gr/dscf} * 300 \text{ acfm} * 4) * 1 \text{ lb/7,000 gr} * 60 \text{ min/hr} * 8,760 \text{ hr/yr} / 2,000 \text{ lb/ton} = 1.40 \text{ TPY}$$

[Authority for Terms f)(1)a. and f)(1)b.: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

c. Emission Limitation:

Visible PE from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

[Authority for Term: OAC rules 3745-17-07(A) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

11. P901, FGD Material Handling

Operations, Property and/or Equipment Description:

FGD material handling, transfer and conveying - Limestone and gypsum handling system

- a) The following emission unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) b)(1)b.
- b) Applicable Emission Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the particulate emissions (PE) from this air contaminant source as the potential to emit for this contaminant is less than 10 tons per year (TPY) considering the state-only restrictions established pursuant to OAC rule 3745-31-05(E).
b.	OAC rule 3745-31-05(E) [State-only restriction to avoid BAT] [PTI P0122403, issued 11/10/2020]	The throughput of gypsum shall not exceed 1,472,500 TPY The throughput of limestone shall not exceed 1,176,155 TPY PE shall not exceed 9.81 TPY
c.	OAC rule 3745-17-11(B)	PE from any stack serving this emission unit shall not exceed 65.56 pounds per hour (lb/hr)
d.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.



e.	OAC rule 3745-17-07(B)(7)(b)	The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.
f.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)a., b)(2)b. and b)(2)c.
g.	40 CFR Part 60, Subpart OOO [40 CFR Part 60.670 through 60.676] [In accordance with 40 CFR 60.670(a)(1), this emission unit is a fixed nonmetallic mineral processing plant that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, and is subject to the emission limitations/control measures specified in this section.]	Visible emissions from any stack serving this emission unit shall not exceed seven percent (7%) opacity [40 CFR 60.672(a) and Table 2] Visible emissions of fugitive dust from any transfer point on all conveyors or from any other affected facility shall not exceed 10 percent opacity [40 CFR 60.672(b) and Table 3] Visible emissions of fugitive dust from any crusher shall not exceed 15 percent opacity [40 CFR 60.672(b) and Table 3]
h.	40 CFR Part 60, Subpart A [40 CFR 60.1 through 60.19]	40 CFR Part 60, Table 1 – Exceptions to Applicability of Subpart A to Subpart OOO specifies which provisions do not apply, or apply with certain exceptions, to owners/operators of affected facilities [40 CFR 60.670(f)]

(2) Additional Terms and Conditions

- a. The permittee shall employ reasonably available control measures for the material handling operations for the purpose of complying with the applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain sufficient moisture content of the material, using water sprays as necessary, and use of partial or full enclosures and/or silos equipped with bin vent filters to maintain compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- b. For each material handling operation that is not adequately enclosed, the control measures shall be implemented if the permittee determines, as a result of the inspection required by d)(2), that control measures are necessary to ensure compliance with the applicable requirements. Any required implementation of the control

measures shall continue during the operation of the material handling operations until further observation confirms that use of the control is not necessary.

- c. Implementation of the control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of AOC rule 3745-17-08.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall maintain monthly records of the following information:
 - a. the gypsum throughput rate (tons);
 - b. the limestone throughput rate (tons);
 - c. the gypsum throughput rate (tons per rolling, 12-month period); and
 - d. the limestone throughput rate (tons per rolling, 12-month period)
- (2) The permittee shall perform daily checks, when the emission unit is in operation and when the weather conditions allow, for any visible particulate emissions from any stack serving this emission 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. 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.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under d)(1)d., or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emission unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective action(s) that were taken to ensure that the emission unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate the abnormal visible emissions.

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(A)(1)]

- (3) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations as follows:

Material handling operation(s)	Minimum inspection frequency
all material handling operations	weekly, when in operation

The inspections shall be performed during representative, normal operating conditions.

[Authority for Term: OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(C)(1)]

- (4) The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraph (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

- (5) For material handling operations, the permittee shall maintain the following information:
- a. the date and reason any required inspection was not performed;
 - 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.

The information required by d)(5)d. shall be kept separately for each material handling operation and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[Authority for Term: OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-77-07(C)(1)]

e) **Reporting Requirements**

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all exceedances of the annual gypsum and limestone throughput rate restrictions;
 - b. all days during which any visible PE was observed from any stack serving this emission unit;
 - c. any corrective actions taken to minimize or eliminate the visible PE from any stack;
 - d. each week during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to sufficient snow/ice/precipitation; and



- e. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Term: OAC rules 3745-31-05(A)(3), 3745-17-08(B) and 3745-77-07(C)(1)]

- (2) The permittee shall comply with the applicable reporting requirements established pursuant to 40 CFR Part 60, Subpart OOO, including but not limited to:

40 CFR 60.7(a) and 60.676(h)	Submit written notification of the date construction commenced, the actual date of initial startup and the anticipated date for conducting opacity observations
40 CFR 60.8 and 60.676(f)	Submit the results of the initial performance tests

[Authority for Term: 40 CFR Part 60, Subpart OOO and OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

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

a. Emission Limitation:

PE shall not exceed 9.81 TPY

Applicable Compliance Method:

Compliance with the TPY PE limitation shall be demonstrated through the record keeping established in d)(1), the equations from AP-42 (11/2006) and information contained in the permittee's application.

[Authority for Term: OAC rules 3745-31-05(E) and 3745-77-07(C)(1)]

b. Emission Limitation:

PE from any stack serving this emission unit shall not exceed 65.56 lb/hr

Applicable Compliance Method:

If required, PE shall be determined according to test Methods 1, 2, 3, 4, and 5, as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources", and the procedures specified in OAC rule 3745-17-03(B)(9). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

[Authority for Term: OAC rules 3745-17-11(B) and 3745-77-07(C)(1)]

c. Emission Limitation:

Visible PE from any stack serving this emission unit shall not exceed seven percent opacity

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

d. Emission Limitation:

Visible PE of fugitive dust discharging from the hoppers or conveyor transfer points shall not exceed 10 percent opacity

Applicable Compliance Method:

Compliance with this emission limitation shall be based on the emission testing contained in f)(2).

e. Emission Limitation:

Visible PE of fugitive dust discharging from the crusher (ball mills) shall not exceed 15 percent opacity.

Applicable Compliance Method:

Compliance with this emission limitation shall be based on the emission testing contained in f)(2).

[Authority for Terms f)(1)c., f)(1)d. and f)(1)e.: 40 CFR Part 60, Subpart OOO and OAC rule 3745-77-07(C)(1)]

(2) The permittee shall conduct, or have conducted, performance testing as required in 40 CFR Part 60, Subpart OOO for this emission unit that was modified after April 22, 2008.

a. A repeat performance test according to 40 CFR 60.11 and 60.675, shall be conducted within five years from the previous performance test for fugitive emissions from affected facilities without water sprays.

b. The performance testing shall be conducted to demonstrate compliance with visible emission limitations for fugitive emissions for each material handling operation subject to 40 CFR Part 60, Subpart OOO, in accordance with the requirements of 40 CFR Part 60.675.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable opacity limitations:

Method 9 of 40 CFR Part 60, Appendix A for visible emissions

d. During the emission testing, the emission unit shall be operated under operational conditions approved in advance by Ohio EPA, SEDO. Operational conditions that may need to be approved include, but are not limited to, the production rate, the type of



material processed, material make-up (solvent content, etc.) or control equipment operational limitations (burner temperature, precipitator voltage, etc.). In general, testing shall be done under *worst case* conditions expected during the life of the permit. As part of the information provided in the Intent to Test (ITT) notification, the permittee shall provide a description of the emission unit operational conditions they will meet during the emission testing and describe why they believe *worst case* operating conditions will be met. Prior to conducting the test(s), the permittee shall confirm with Ohio EPA, SEDO that the proposed operating conditions constitute *worst case*. Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.

- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an ITT notification to Ohio EPA, SEDO. The ITT notification shall describe in detail the proposed test methods and procedures, the emission 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 the ITT notification for review and approval prior to the test(s) may result in Ohio EPA, SEDO's refusal to accept the results of the emission test(s).
- f. Personnel from Ohio EPA, SEDO shall be permitted to witness the test(s), examine testing equipment and acquire data and information necessary to ensure that the operation of the emission unit and the testing procedures provide a valid characterization of the emissions from the emission 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(s) responsible for the test(s) and submitted to Ohio EPA, SEDO 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 Ohio EPA, SEDO.

[Authority for Term: 40 CFR Part 60, Subpart OOO and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.

12. P902, Dry Fly Ash Transfer Stations

Operations, Property and/or Equipment Description:

Dry fly ash treatment and handling system; includes material transfers controlled with filters, mixing for moisture induction, silo storage and load-out of fly ash into trucks

- 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 P0137618, issued 04/04/2025]	Particulate emissions (PE), particulate material less than 10 microns in diameter (PM₁₀) and particulate material less than 2.5 microns in diameter (PM_{2.5}) from any stack serving this emission unit shall not exceed 0.005 grain per dry standard cubic foot (gr/dscf). PE, PM₁₀ and PM_{2.5} emissions shall not exceed 20.12 tons per year (TPY) The requirements of this rule include compliance with OAC rules 3745-17-07(A), 3745-17-07(B) and 3745-17-08(B). See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	The emission limitation for PE established pursuant to this rule is less stringent than the

		emission limitation for PE required pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-07(B)(1)	Visible PE of fugitive dust shall not exceed 20 percent opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust. See b)(2)b., b)(2)c. and b)(2)d.

(2) Additional Terms and Conditions

- a. The permittee shall install and operate bin vent and vacuum exhaust filters with a maximum outlet grain loading of 0.005 gr PE/dscf.
- b. The permittee shall employ reasonably available control measures for the loading of fly ash for the purpose of ensuring compliance with the applicable requirements. In accordance with the permittee's permit application, the permittee has committed to use precautionary measures to maintain compliance, including using telescopic chutes for dry fly ash (unconditioned) silo load-out. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The control measures shall be employed for each load-out operation if the permittee determines, as a result of the inspection required in d)(4), that the control measure(s) is/are necessary to ensure compliance with the applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is/are not necessary.
- d. Implementation of the control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall equip the bin vent and vacuum exhaust filters with dust detection monitors. The dust detection monitors shall alert personnel if there is a broken bag or other abnormal condition.
- (2) The permittee shall maintain records of the following information for the dust detection system:
 - a. records of the dust detection system output;



- b. records of dust detection system adjustments, including the date and time of the adjustment, the dust detection system settings, the final dust detection system setting; and
 - c. the date and time of all dust detection system alarms to include:
 - i. the time it took to initiate procedures to determine the cause of the alarm;
 - ii. the cause of the alarm;
 - iii. an explanation of the actions taken; and
 - iv. the date and time the cause of the alarm was alleviated.
- (3) During any day when the dust detection monitoring system is not operational, the permittee shall perform daily checks, when the emission unit is in operation and when weather conditions allow, for any visible PE from any stack serving this emission unit. The presence or absence of any visible emissions shall be noted in an operations log.
- (4) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections as follows:

Material handling operation	Minimum inspection frequency
Loading of fly ash into trucks	Weekly, when in operation

The inspections shall be performed during representative, normal operating conditions.

The permittee may, upon receipt of written approval from Ohio EPA, SEDO, modify the inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the applicable requirements.

- (5) For material handling operations, the permittee shall maintain the following information:
- a. the date and reason any required inspection was not performed;
 - 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.

The information required by d)(5)d. shall be kept separately for each material handling operation and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

[Authority for Terms d)(1), d)(2), d)(3), d)(4), and d)(5): OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:



- a. all days during which dust detection alarms were activated;
- b. any visible PE observed from any stack serving this emission unit when the dust detection system was inoperable; and
- c. any corrective actions taken to minimize or eliminate the visible PE from any stack.

The semiannual reports shall be submitted to Ohio EPA, SEDO by January 31 and July 31 of each year and shall cover the previous six-month period.

- (2) The permittee shall submit deviation reports that identify the following:

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

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements contained in Section A of this permit.

[Authority for Terms e)(1) and e)(2): OAC rules 3745-31-05(A)(3), 3745-17-08(B) and 3745-77-07(C)(1)]

f) **Testing Requirements**

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

a. **Emission Limitations:**

PE, PM₁₀ and PM_{2.5} emissions from any stack serving this emission unit shall not exceed 0.005 gr/dscf

Applicable Compliance Method:

If required, PE shall be determined according to test Methods 1, 2, 3, 4 and 5, as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources". Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.

b. **Emissions Limitation:**

PE, PM₁₀ and PM_{2.5} emissions shall not exceed 20.12 TPY

Applicable Compliance Method:

The TPY PE limitation represents the potential to emit for this emission unit based on the information in the permittee's application and the following calculations:

i. Stack Emissions

$$PE/PM_{10}/PM_{2.5} =$$

$$0.005 \text{ gr/dscf} * 1 \text{ lb/7,000 gr} * 28,980 \text{ acfm} * 60 \text{ min/hr} * 8,760 \text{ hr/yr} / 2,000 \text{ lb/ton} \\ = 5.44 \text{ TPY}$$

Where:

0.005 gr/dscf = emission guarantee; and

28,908 acfm = maximum air flow rate of all nine vents combined

ii. Fugitive emissions from truck load-out

$$PE/PM_{10}/PM_{2.5} =$$

$$0.143 \text{ lb/ton} * 821,250 \text{ TPY} / 2,000 \text{ lb/ton} * (1.0 - 0.75) = 14.68 \text{ TPY}$$

Where:

0.143 lb/ton = emission factor for dry, unconditioned fly ash from Equation 1 in AP-42 13.2.4 (11/2006) and using a mean wind speed of 7.2 and a material moisture content of 0.15 percent;

821,250 TPY = maximum annual throughput of fly ash from all three systems; and

75 percent = control efficiency for precautionary measures to reduce fugitive dust (Telescopic chute OEPA RACM 2-43)

iii. Total PE/PM₁₀/PM_{2.5} (TPY)

= stack emissions + fugitive emissions from truck load-out

$$= 5.44 \text{ TPY} + 14.68 \text{ TPY} = 20.12 \text{ TPY}$$

c. Emission Limitation:

Visible PE from any stack serving this emission unit shall not exceed 20 percent opacity as a six-minute average except as provided by rule.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9.

d. Emission Limitation:

Visible PE of fugitive dust shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method:

If required, visible PE shall be determined according to US EPA Method 9, with the modifications found in OAC rule 3745-17-03(B)(3)(a) and (b).

g) Miscellaneous Requirements

(1) None.



13. Emission Unit Group - Main EGU Boilers: B001, B002 and B009

EU ID	Operations, Property and/or Equipment Description
B001	Unit 1 - Babcock and Wilcox pulverized coal-fired, dry bottom, wall-fired boiler with a nominal capacity of 5,275 MMBtu/hr and equipped with SCR for control of NO _x , ESP for particulate control and FGD for SO ₂ control
B002	Unit 2 - Unit 1 - Babcock and Wilcox pulverized coal-fired, dry bottom, wall-fired boiler with a nominal capacity of 5,275 MMBtu/hr and equipped with SCR for control of NO _x , ESP for particulate control and FGD for SO ₂ control
B009	Babcock and Wilcox pulverized coal-fired, dry bottom, wall-fired boiler with a nominal capacity of 5,275 MMBtu/hr and equipped with SCR for control of NO _x , ESP for particulate control and FGD for SO ₂ control vented through the wet cooling tower

- a) The following emission 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 Emission Limitations and/or Control Requirements
- (1) The specific operation(s), property, and/or equipment that constitute each emission unit along with the applicable rules and/or requirements and with the applicable emission 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 Emission Limitations/Control Measures
a.	OAC rule 3745-31-05(F) [PTIs P0104411 and P0104412, issued 2/17/2011] [Director's Final Findings and Orders, 7/26/2024]	B001 (Unit 1) and B002 (Unit 2) shall not exceed 1.056 pounds of sulfur dioxide (SO ₂) per million Btu (lb/MMBtu) of actual heat input based on a rolling, 30-day average. B009 (Unit 3) shall not exceed 0.66 lb SO ₂ /MMBtu of actual heat input based on a rolling, 30-day average. B001, B002, and B009, combined, shall not exceed 4,858.75 lb SO ₂ /hr as a rolling, 30-day average.



b.	OAC rule 3745-31-05(F) [PTIs P0104411 and P0104412, issued 2/17/2011] [United States, et al. v. American Electric Power Service Corp., et al., Civil Action Nos. C2-99-1182 and C2-99-1250 and United States, et al. v. American Electric Power Service Corp., et al. Civil Action Nos. C2-04-1098 and C2-05-360 (Consent Decree)]	B001, B002 and B009 shall be equipped with a flue gas desulfurization (FGD) system which shall be continuously operated for the reduction of SO₂ emissions. B001, B002 and B003 shall be equipped with a selective catalytic reduction (SCR) system which shall be continuously operated for the reduction of nitrogen oxide (NO_x) emissions. B001 and B002 shall be operated so that particulate emissions (PE) do not exceed 0.030 lb/MMBtu of actual heat input for each emission unit as measured by Method 5, 5B, or 17 of 40 CFR Part 60, Appendix A. See b)(2)a. and b)(2)b.
c.	40 CFR Part 97	See B.13.
d.	OAC rule 3745-17-07(A)(1)	Visible emissions of PE from the stacks serving these emission units shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule. See b)(2)c. and c)(1)
e.	OAC rule 3745-17-10(C)(1)	B009 – the 0.1 lb PE/MMBtu actual heat input limitation specified by this rule is less stringent than the limitation established pursuant to 40 CFR Part 63, Subpart UUUUU B001 and B002 – the PE limitation specified by this rule is less stringent than the PE limitation established pursuant to b)(1)b. and 40 CFR Part 63, Subpart UUUUU.
f.	OAC rules 3745-18-47(D)(1), (D)(2) and (D)(3)	The SO ₂ emission limitations specified by this rule for B001, B002, and B009 are equivalent to the SO ₂ emission limitations established pursuant to OAC rule 3745-31-05(F).
g.	40 CFR Part 75 and OAC Chapter 3745-103	See b)(2)d., b)(2)e., b)(2)f. and b)(2)g.
h.	40 CFR Part 63, Subpart UUUUU [40 CFR 63.9980 through 10042]	Except as provided under the emission averaging provisions specified in 40 CFR 63.10009, the permittee shall comply with the following emission limitations:



	[In accordance with 40 CFR 63.9980 to 63.9982 and the definitions in 63.10042, these emission units are existing coal-fired electric utility steam generating units (EGU), constructed prior to May 3, 2011, subject to the emission limitations and control measures specified in this section.]	0.03 lb PE/MMBtu or 0.30 lb PE/MWh Acid Gases: 2.0 E-3 lb hydrogen chloride (HCl)/MMBtu or 2.0 E-2 lb HCl/MWh; OR 2.0E-1 lb sulfur dioxide (SO ₂)/MMBtu or 1.5 E0 lb SO ₂ /MWh 1.2E0 lb mercury (HG)/TBtu or 1.3E-2 lb HG/GWh [40 CFR 63.9991 and 40 CFR Part 63, Subpart UUUUU Table 2(1.) See c)(2)
i.	40 CFR Part 63, Subpart A [40 CFR 63.1 through 63.16]	40 CFR Part 63, Subpart UUUUU, Table 9 "Applicability of General Provisions to Subpart UUUUU of Part 63" identifies which parts of the General Provisions apply.
j.	40 CFR Part 64 [40 CFR 64.1 through 64.10] [Compliance Assurance Monitoring]	Pursuant to 40 CFR 64.2(b), CAM does not apply to the MACT emission limitations or standards in 40 CFR Part 63, Subpart UUUUU.

(2) Additional Terms and Conditions

- a. "Continuously operated" means that the associated SCR, FGD and/or an electrostatic precipitator (ESP) are employed to control emissions from an emission unit, except during a malfunction, and shall be operated at all times the emission unit is in operation, consistent with the technological limitation, manufacturer's specifications, and good engineering and maintenance practices for such equipment and for the emission unit so as to minimize emissions to the greatest extent practicable.
- b. The permittee shall continuously operate the ESPs on emission units B001 and B002 to maximize PE reductions at all times when the emission unit(s) is/are in operation, provided that such operation of the ESP is consistent with the technological limitations, manufacturer's specifications, and good engineering and maintenance practices for the ESP. The permittee shall, at a minimum, to the extent reasonably practicable:
 - i. fully energize each section of the ESP for each operating emission unit, and repair any failed ESP section(s) at the next planned unit outage (or unplanned outage of sufficient duration);



- ii. operate automatic control systems on each ESP to maximize PE collection efficiency;
- iii. maintain power levels delivered to the ESP, consistent with manufacturer's specifications, the operational design of the emission unit and good engineering practices; and
- iv. inspect and repair (during the next planned unit outage or unplanned outage of sufficient duration) any openings in ESP casings, ductwork, and expansion joints to minimize air leakage.

[Authority for Terms b)(2)a. and b)(2)b.: PTIs P010441 and P0104412, OAC rule 3745-77-07(A)(1) and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

- c. Pursuant to ORC 3704.03(l) and 40 CFR Part 51, Appendix P, Section 6.1 pertaining to alternative monitoring, the Director has determined that it is not technically feasible to install and operate a continuous opacity monitor (COM) on a stack with a saturated plume. Ohio EPA has determined that the permittee's use of quarterly emission testing in accordance with the requirements of OAC rule 3745-17-03(C), contingent upon maintaining compliance with the PE limitations from 40 CFR Part 63, Subpart UUUUU. Ohio EPA considers the use of quarterly emission testing as an acceptable alternative to a COM. The permittee's use of the prescribed monitoring methods in OAC rule 3745-17-03 are also acceptable alternatives to a COM.
- d. The permittee is subject to the requirements of OAC Chapter 103 and 40 CFR Parts 72 and 75 concerning acid rain. The permittee shall ensure that any affected emission unit(s) comply with the requirements of those applicable parts and chapters. Emissions exceeding allowable emission limitations that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
- e. The continuous emission monitoring system (CEMS) consists of all of the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.
- f. The permittee shall maintain a written quality assurance/quality control plan for the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system), designed to ensure continuous valid and representative readings of SO₂, and either CO₂ or O₂ emissions (in units of the applicable standard). Except as otherwise provided, 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 logbook dedicated to the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) must be kept on-site and available for inspection during regular office hours.



The plan shall include the requirement to conduct relative accuracy test audits for the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ 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 Part 75, Appendix B, in lieu of the frequencies established pursuant to 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.

- g. The permittee shall maintain a written quality assurance/quality control plan for the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system), designed to ensure continuous valid and representative readings of NO_x, and either CO₂ or O₂ emissions (in units of the applicable standard). The fuel flow monitor/meter shall be maintained as required in 40 CFR Part 75, Appendix D. Except as otherwise provided, 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 logbook dedicated to the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) must be kept on-site and available for inspection during regular office hours.

The plan shall include the requirement to conduct relative accuracy test audits for the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ 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 Part 75, Appendix B, in lieu of the frequencies established pursuant to 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.

c) Operational Restrictions

- (1) To qualify for 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 as follows:

- a. during all periods of start-up, until the EPS is operational or until the inlet temperature of the EPS achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
- b. 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 the 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 (units of degrees Fahrenheit).

- (2) The permittee shall comply with the applicable operational restrictions required under 40 CFR Part 63, Subpart UUUUU, including but not limited to the following sections:

40 CFR 63.9991(a)(1) and (2)	Meet the emission limits and work practice standards in Tables 1, 2, 3 and 4 that apply to your EGU, except as provided in 40 CFR 63.10009.
40 CFR 63.9991(b)	The administrator may approve use of an alternative to the work practice standards in 40 CFR 63.9991 as provided in 40 CFR 63.6(g).
40 CFR 63.9991(c)	You may use the alternate SO ₂ emission limit in Tables 1 and 2 of 40 CFR Part 63, Subpart UUUUU only if your EGU: (1) Has a system using wet or dry flue gas desulfurization technology and an SO₂ continuous emission monitoring system (CEMS) installed on the EGU; and (2) At all times, you operate the wet or dry flue gas desulfurization technology and the SO₂ CEMS installed on the EGU consistent with 40 CFR 63.10000(b).
40 CFR 63.10000(a)	The emission limits and operating limits apply at all times except during periods of startup and shutdown; however, for coal-fired, liquid oil-fired, or solid oil-derived fuel-fired EGUs, you are required to meet the work practice requirements, items 3 and 4, in Table 3 of 40 CFR Part 63, Subpart UUUUU during periods of startup and/or shutdown.
40 CFR 63.10000(b)	Operate and maintain any 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.



40 CFR 63.10000(c)	Initial compliance demonstration requirements and LEE requirements
40 CFR 63.10000(d)	CMS, CPMS and CEMS site-specific monitoring plan requirements
40 CFR 63.10000(e)	Perform periodic tune-ups of your EGUs according to 63..10021(e).
40 CFR 63.10000(l)	Install, certify, operate, maintain and quality assure each monitoring system necessary for demonstrating compliance with the work practice standards for PM or non-mercury HAP metals during startup periods and shutdown periods. You must collect, record, report and maintain data obtained from these monitoring systems during startup periods and shutdown periods before the date an EGU is subject to 40 CFR Part 63, Subpart UUUUU.
40 CFR 63.10020(b)	You must operate the monitoring system and collect data at all required intervals at all times that the affected EGU is operating, except for required monitoring system quality assurance or quality control activities, including, as applicable, calibration checks and required zero and span adjustments, and any scheduled maintenance as defined in your site-specific monitoring plan. You are required to affect monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable.

d) Monitoring and/or Record keeping Requirements

- (1) The permittee shall record the duration of any time period during which the FGD did not continuously operate, including the specific date(s) and time(s) that the FGD did not operate while the associated emission unit was in operation, the reason why the permittee did not continuously operate the FGD, and the measures taken to reduce emissions of SO₂ normally controlled by the FGD.
- (2) The permittee shall record the duration of any time period during which the SCR did not continuously operate, including the specific date(s) and time(s) that the SCR did not operate while the associated emission unit was in operation, the reason why the permittee did not continuously operate the SCR, and the measures taken to reduce emissions of NO_x normally controlled by the SCR.



[Authority for Terms d)(1) and d)(2): OAC rule 3745-77-07(C)(1) and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio

- (3) The permittee shall maintain, on-site, the document(s) of certification received from US EPA or Ohio EPA's Central Office documenting that the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3; and has been certified by US EPA or recommended for certification by Ohio EPA to US EPA under 40 CFR Part 75. The letter(s)/document(s) of certification under Part 60 and certification or recommendation for certification under Part 75 shall be made available to Ohio EPA, SEDO upon request.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR 60.13, 40 CFR Part 60, Appendix B, and 40 CFR Part 75]

- (4) The permittee shall operate and maintain equipment to continuously monitor and record SO₂ emissions and CO₂ or O₂ emissions from this emission unit (units of the applicable standard). The continuous monitoring and recording equipment shall comply with the requirements established pursuant to 40 CFR Part 60 and 40 CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) including, but not limited to:

- a. emissions of SO₂ (in ppm) for each cycle time of the analyzer, with no resolution less than one data point per minute;
- b. emissions of SO₂ (units of the applicable standard) in the appropriate averaging period;
- c. the percent CO₂ or O₂ with each cycle time of the analyzer, with no resolution less than one data point per minute;
- d. results of the quarterly cylinder gas audits or linearity checks;
- e. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;
- f. results of the required relative accuracy test audit(s) (units of the applicable standard);
- g. hours of operation of the emission unit, continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system), and control equipment;
- h. the date, time, and hours of operation of the emission unit without the control equipment and/or the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system);
- i. the date, time, and hours of operation of the emission unit during any malfunction of the control equipment and/or the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system); and



- j. the reason (if known) and the corrective action(s) taken (if any) for each event in (4)h. and (4)i.

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

[Authority for Term: OAC rules 3745-77-07(C)(1) and 3745-31-05(F), 40 CFR 60.13, 40 CFR Part 60, Appendices B and F, 40 CFR Part 75, and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

- (5) A logbook documenting the activities related to the continuous SO₂ monitoring system for emission units B001 and B002 must be kept on-site and available for inspection during regular office hours.

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

- (6) The permittee shall maintain on-site, the document(s) of certification received from US EPA or Ohio EPA's Central Office documenting that the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 3, and has been certified by US EPA or recommended for certification by Ohio EPA to US EPA under 40 CFR Part 75. The letter(s)/document(s) of certification under Part 60 and certification or recommendation for certification under Part 75 shall be made available to Ohio EPA, SEDO upon request.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR 60.13, 40 CFR Part 60, Appendix B, and 40 CFR Part 75]

- (7) The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emission unit (units of the applicable standard). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60 and 40 CFR Part 75.

The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) including, but not limited to:

- a. emissions of NO_x (in ppm) for each cycle time of the analyzer, with no resolution less than one data point per minute;
- b. emissions of NO_x (units of the applicable standard) in the appropriate averaging period;
- c. the percent CO₂ or O₂ with each cycle time of the analyzer, with no resolution less than one data point per minute required;
- d. the results of quarterly cylinder gas audits or linearity checks;
- e. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;



- f. results of required relative accuracy test audit(s) (units of the applicable standard);
- g. hours of operation of the emission unit, continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system), and control equipment;
- h. the date, time, and hours of operation of the emission unit without the control equipment and/or the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system; and
- i. the reason (if known) and the corrective action(s) taken (if any) for each such event in (7)g. and (7)h.

All valid data points generated and recorded by the continuous emission monitoring and data acquisition and handling system shall be used in the calculation of the pollutant concentration and/or emission rate over the appropriate averaging period.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR 60.13, 40 CFR Part 60, Appendices B and F, 40 CFR Part 75, and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

- (8) The permittee shall install, calibrate, operate, certify and maintain a PM CEMS on the stack for emission units B001 and B002. Each PM CEMS shall be comprised of a continuous particle mass monitor measuring particulate matter concentration, directly or indirectly, on an hourly average basis and a diluent monitor used to convert the concentration to lb/MMBtu. The permittee shall maintain, in an electronic database, the hourly average emission values produced by all PM CEMS at the facility (lb/MMBtu). The permittee shall use reasonable efforts to keep each PM CEMS running and producing data whenever the emission unit served by the PM CEMS is operating.

The permittee shall operate each PM CEMS in accordance with the quality assurance/quality control protocol developed using the criteria established pursuant to 40 CFR Part 60, Appendix B, Performance Specification 11 and Appendix F, Procedure 3, and then approved by Ohio EPA.

- (9) The permittee shall operate the PM CEMS, for emission units B001 and B002, for at least two years. After two years of operation, the permittee may attempt to demonstrate that it is infeasible to continue to operate the PM CEMS. As part of such a demonstration, the permittee shall submit an alternative PM monitoring plan for review and approval by US EPA. The plan shall explain the basis for ceasing operation of the PM CEMS. If US EPA disapproves the alternative PM monitoring plan, or is US EPA rejects the permittee's claim that it is infeasible to continue operating the PM CEMS, such disagreement is subject to Section XV (Dispute Resolution) of the Consent Decree.
- (10) Operation of a PM CEMS, for emission units B001 and B002, shall be considered no longer feasible if:
 - a. the PM CEMS cannot be kept in proper condition for sufficient periods of time to produce reliable, adequate, and/or useful data consistent with the quality assurance/quality control protocol; or

- b. the permittee demonstrates that recurring, chronic, or unusual equipment adjustment or servicing needs in relation to other types of continuous emission monitors cannot be resolved through reasonable expenditures of resources.

If US EPA determines that the permittee has demonstrated that operation of the PM CEMS is no longer feasible, the permittee shall be entitled to discontinue the operation of the PM CEMS.

- (11) Until US EPA approves an alternative monitoring plan, or until the conclusion of any proceeding under Section XV (Dispute Resolution) of the Consent Decree, the permittee shall continue to operate the PM CEMS for emission units B001 and B002. If US EPA has not issued a decision regarding an alternative monitoring plan within 120 days, the permittee may initiate action under Section XV (Dispute Resolution) of the Consent Decree.

[Authority for Terms : PTI P0122403, OAC rule 3745-77-07(C)(1), and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

- (12) The permittee shall comply with the applicable monitoring and record keeping requirements established pursuant to 40 CFR Part 63, Subpart UUUUU, including but not limited to the following:

40 CFR 63.10000(d)	Site specific monitoring plan requirements
40 CFR 63.10000(k)	Monitoring system necessary for newly applicable requirements resulting from cessation or recommencement of operations
40 CFR 63.10005(j)	Startup and shutdown requirements
40 CFR 63.10007(g)	Availability of performance test records
40 CFR 63.10010(a)	Continuous monitoring system requirements for CEMS and sorbent trap monitoring systems
40 CFR 63.10010(b)	Installation requirements for O ₂ and CO ₂ monitoring systems
40 CFR 63.10010(c)	Stack gas flow rate monitoring requirements
40 CFR 63.10010(d)	Moisture monitoring requirements
40 CFR 63.10010(e)	HCl and/or HF CEMS requirements
40 CFR 63.10010(f)	SO ₂ CEMS requirements
40 CFR 63.10010(g)	Hg CEMS or sorbent trap monitoring system requirements
40 CFR 63.10010(i)	PM CEMS requirements
40 CFR 63.10020(a)	Monitor and collect data according to site-specific monitoring plan required by 63.10000(d)
40 CFR 63.10020(b)	Monitoring system operation and quality assurance or quality control activities



40 CFR 63.10020(c)	Use of data collected
40 CFR 63.10020(d)	Deviations from monitoring requirements
40 CFR 63.10021(h)	Keep records specified in 63.10032 during periods of startup and shutdown
40 CFR 63.10032(a)	Recordkeeping requirements
40 CFR 63.10032(b)	CEMS recordkeeping requirements
40 CFR 63.10032(c)	Keep records required in Table 7
40 CFR 63.10032(d)	Monthly fuel usage records, combusting secondary materials, LEE records
40 CFR 63.10032(e)	Emissions averaging records
40 CFR 63.10032(f)	Startup and shutdown records
40 CFR 63.10032(g)	Malfunction records
40 CFR 63.10032(h)	Records of actions taken to minimize malfunction period emissions
40 CFR 63.10032(i)	Records of type(s) and amount(s) of fuel used during each startup and shutdown
40 CFR 63.10033(a)	Records must be in a form readily available for expeditious review
40 CFR 63.10033(b)	Records retention
40 CFR 63.10033(c)	Location of records

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

e) Reporting Requirements

- (1) The permittee shall comply with the following quarterly reporting requirements for the emission units and the associated continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ 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 Ohio EPA, SEDO, 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/or any other applicable rule(s) or regulation(s). 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 action(s) taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard.



- b. 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 Ohio EPA, SEDO, documenting all instances of continuous CO₂ or O₂ monitoring system downtime and malfunction while the emission unit was in operation.
- c. The quarterly reports shall be submitted by January 30, April 30, July 30 and October 30 each year and shall include:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous SO₂ and CO₂ or O₂ monitor and any other associated monitor(s);
 - iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change(s) to the hardware, change(s) to the software that may affect CEMS readings, and/or change(s) 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;
 - v. the total SO₂ emissions for the calendar quarter (in tons);
 - vi. the total operating time for the emission unit (hours);
 - vii. the total operating time of the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) while the emission unit was in operation;
 - viii. results and dates of quarterly cylinder gas audits or linearity checks;
 - 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 and CO₂ or O₂ monitor out-of-control and the compliant results following any corrective action(s);
 - xi. the date, time, and duration of any/each malfunction of the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) and/or control equipment while the emission unit was in operation;
 - xii. the date, time, and duration of any downtime of the continuous SO₂ monitoring system (including the associated continuous CO₂ or O₂ monitoring system) and/or control equipment while the emission unit was in operation; and
 - xiii. the reason (if known) and the corrective action(s) taken (if any) for each event in c.xi. and/or c.xii.



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

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR 60.7 and 40 CFR Part 75]

- (2) The permittee shall comply with the following quarterly reporting requirements for the emission units and the associated continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system):
- a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 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 Ohio EPA, SEDO, documenting all instances of NO_x emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, 40 CFR Part 75 and/or Part 76, OAC Chapters 3745-14 and 3745-23, and any other applicable rule(s) or regulation(s). 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 action(s) taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard.
 - b. 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 Ohio EPA, SEDO, documenting all instances of continuous CO₂ or O₂ monitoring system downtime and malfunction while the emission unit was in operation.
 - c. The quarterly reports shall be submitted by January 30, April 30, July 30 and October 30 each year and shall include:
 - i. the facility name and address;
 - ii. the manufacturer and model number of the continuous NO_x and CO₂ or O₂ monitor and any other associated monitor(s);
 - iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change(s) to the hardware, change(s) to the software that may affect CEMS readings, and/or change(s) 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;

- v. the total NO_x emissions for the calendar quarter (in tons);
- vi. the total operating time for the emission unit (hours);
- vii. the total operating time of the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) while the emission unit was in operation;
- viii. results and dates of quarterly cylinder gas audits or linearity checks;
- 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 NO_x and CO₂ or O₂ monitor out-of-control and the compliant results following any corrective action(s);
- xi. the date, time, and duration of any/each malfunction of the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) and/or control equipment while the emission unit was in operation;
- xii. the date, time, and duration of any downtime of the continuous NO_x monitoring system (including the associated continuous CO₂ or O₂ monitoring system) and/or control equipment while the emission unit was in operation; and
- xiii. the reason (if known) and the corrective action(s) taken (if any) for each event in c.xi. and/or c.xii.

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

[Authority for Term: OAC rules 3745-77-07(C)(1) and 3745-31-05(F), 40 CFR 60.7 and 40 CFR Part 75]

- (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 (US EPA), as required by 40 CFR Part 75.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 75]

- (4) The permittee shall comply with all periodic reporting requirements described in Section XI and Appendix B of the Consent Decree, including the following:

- a. paragraphs 143 and 144: progress reports, due annually on March 31, and provisions for relevant Title V permit reporting;
- b. paragraph 145: 15-day notification for violation(s) of the requirements of the Consent Decree;
- c. paragraph 146: responsible signatories and certification;
- d. Appendix B, paragraph I.F.: continuous operation reporting for SCR/FGD including periods where SCF/FGD did not operate, due annually by March 31;
- e. Appendix B, paragraph I.H.: continuous operation reporting for PM CEMS, including data recorded by the PM CEMS, exceeded in lb/MMBtu on a three-hour rolling average basis in electronic format for the prior calendar year, due annually by March 31;
- f. Appendix B, paragraph I.L.: report the PM emission rate as defined in Paragraph 51, for emission units B001 and B002 and attach a copy of the executive summary and results of any stack test performed during the calendar year covered by the annual report; and
- g. Appendix B, paragraph II.: deviation reporting, due annually by March 31.

[Authority for Term: OAC rule 3745-77-07(C)(1) and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

- (5) The permittee shall comply with the applicable reporting requirements established pursuant to 40 CFR Part 63, Subpart UUUUU, including but not limited to the following:

40 CFR 63.9984(c)	Meet notification requirements in 63.10030 according to the schedule in 63.10030 and 40 CFR Part 63, Subpart A
40 CFR 63.10000(i)(2)	Notification requirements for when EGU will cease complying with this subpart
40 CFR 63.10021(f)	Reporting requirements
40 CFR 63.10021(g)	Reporting deviations from an applicable operating limit or operating limit in Table 1, 2, 3 or 4
40 CFR 63.10021(i)	Submit reports specified in 63.10031 concerning activities and periods of startup and shutdown occurring after January 1, 2024
40 CFR 63.10030(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6) and 63.9(b), (c), (d), (e), (f), (g) and (h) that apply by the specified dates
40 CFR 63.10030(b)	Initial notification submission deadline
40 CFR 63.10030(d)	Notification of Intent to conduct a performance test submittal requirement
40 CFR 63.10030(e)	Notification of Compliance Status submittal requirements



40 CFR 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 electronic reports required under Appendix A and/or B at the specified frequency
40 CFR 63.10031(b)	Reporting schedule
40 CFR 63.10031(c)	Compliance report content
40 CFR 63.10031(d)	Compliance report when using a CMS
40 CFR 63.10031(e)	Semi-annual monitoring report
40 CFR 63.10031(f)	Requirements for submitting performance test results using the ECMPS Client Tool
40 CFR 63.10031(g)	Starting with a report for the first calendar quarter of 2024, you must use the ECMPS Client Tool to submit quarterly electronic compliance reports.
40 CFR 63.10031(j)	Report results of performance tests and performance tune-ups within 60 days after completion

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

f) Testing Requirements

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

a. Emission Limitations:

1.056 lb SO₂/MMBtu for emission units B001 and B002, individually, of actual heat input based on a rolling, 30-day average

Applicable Compliance Method:

Compliance with the lb SO₂/MMBtu emission limitation shall be demonstrated through the data collected as established in the Monitoring and Recordkeeping Section of this permit, and the recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

Compliance with the associated CO₂ or O₂ monitoring requirements contained in this permit, 40 CFR Parts 60 and/or 75, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Recordkeeping Section of this permit, and demonstration of compliance with the quality assurance/quality control plan, which shall meet all of the testing and recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

b. Emission Limitation:

0.66 lb SO₂/MMBtu of actual heat input based on a rolling, 30-day average for emission unit B009

Applicable Compliance Method:

Compliance with the lb SO₂/MMBtu emission limitation shall be demonstrated through the data collected as established in the Monitoring and Recordkeeping Section of this permit, and the recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

Compliance with the associated CO₂ or O₂ monitoring requirements contained in this permit, 40 CFR Parts 60 and/or 75, and any other applicable standards shall be demonstrated through the data collected as required in the Monitoring and Recordkeeping Section of this permit, and demonstration of compliance with the quality assurance/quality control plan, which shall meet all of the testing and recertification requirements of 40 CFR Part 60 and 40 CFR Part 75.

c. Emission Limitations:

B001 and B002 shall be operated so that PE does not exceed 0.030 lb/MMBtu of actual heat input for each emission unit

Applicable Compliance Method:

The permittee shall conduct annual performance testing for PE on each stack serving emission units B001 and B002. The annual performance testing requirement may be satisfied by conducting performance tests as established in the applicable permit.

The reference methods and procedures for determining compliance with PE rates shall be those specified in 40 CFR Part 60, Appendix A, Method 5, 5B, or 17, or an alternative method that is promulgated by EPA, requested for use by the permittee and approved for use by Ohio EPA. Use of any particular method shall conform to the EPA requirements specified in 40 CFR Part 60, Appendix A and 40 CFR 60.48Da(b) and (e), or any federally-approved method contained in Ohio's State Implementation Plan. The permittee shall calculate the PE rates from the stack test results in accordance with 40 CFR 60.8(f). The results of each PE performance test shall be submitted to EPA within 45 days of completion of the performance test.

Compliance with the PE limitation shall also be demonstrated based on the results of performance testing conducted in accordance with 40 CFR UUUUU, which is deemed acceptable to fulfill the testing requirement.

Compliance with the PE limitations contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected in the Monitoring and Recordkeeping 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.

[Authority for Terms f)(1)a., f)(1)b. and f)(1)c.: OAC rule 3745-77-07(C)(1) and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]



d. Emission Limitation:

Visible PE from the stacks serving emission units B001, B002 and B009 shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the opacity limitation shall be demonstrated through compliance with the PE limitation of 0.030 lb/MMBtu of actual heat input. Compliance with the PE limitation of 0.030 lb/MMBtu shall be demonstrated through the data collected by the Continuous Particulate Emission Monitor, or by the alternative monitoring methods contained in OAC rule 3745-17-03.

If required, compliance shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for Term: OAC rules 3745-17-07(A) and 3745-77-07(C)(1), 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

e. Emission Limitation:

4,858.75 lb SO₂/hr, as a rolling, 30-day average for B001, B002 and B003, combined

Applicable Compliance Method:

Compliance with the combined, rolling 30-day SO₂ emission limitation is demonstrated through the data collected as required in the Monitoring and Recordkeeping Section of this permit, and the recertification requirements contained in 40 CFR Part 60 and 40 CFR Part 75, and the procedures contained in OAC rule 3745-18-04(D)(11).

[Authority for Term: OAC rule 3745-77-07(C)(1) and Consent Decree, Civil Action Nos. C2-05-360, C2-99-1250, and C2-04-1098, United States District Court, Southern District of Ohio]

f. Emission Limitation:

Except as provided under the emissions averaging provisions specified in 40 CFR 63.10009, the permittee shall comply with the following emission limitations:

PM = 0.03 lb/MMBtu or 0.30 lb/MWh;

HCL = 2.0E-3 lb/MMBtu or 2.0E-2 lb/MWh; or

SO₂ = 2.0E-1 lb/MMBtu or 1.5E0 lb/MWh;

HG = 1.2E0 lb/TBtu or 1.3E-2 lb/GWh

Applicable Compliance Method:

Compliance with the applicable emission limits shall be demonstrated in accordance with the requirements established pursuant to 40 CFR Part 63, Subpart UUUUU. See f)(2).

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



- (2) The permittee shall comply with the applicable performance testing and compliance requirements established pursuant to 40 CFR Part 63, Subpart UUUUU including but not limited to the following:

40 CFR 63.10000(c)	Initial performance testing requirements
40 CFR 63.10000(c)(1)(i) and (1)(iii) and 63.10005(h)	Low emitting EGU (LEE) qualifications and performance testing requirements
40 CFR 63.10000(c)(1)(vi) and Appendix A	Initial compliance requirements for Hg-sorbent trap monitoring system (non-LEE)
40 CFR 63.1005(a), (b), (c) and (d) and 63.10011	Initial compliance requirements (General; Performance Testing; Operating Limits; and CMS)
40 CFR 63.10005(e) and (f) and 63.10011	Initial compliance requirements for work practice standards
40 CFR 63.10006	Subsequent performance test requirements
40 CFR 63.10007(a), (b), (c), (d), (e) and (f) and Table 5	Performance test requirements and test methods
40 CFR 63.10021(a) and (d)	Continuous compliance demonstration requirements

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

- (3) The permittee shall conduct, or have conducted, emission testing for this emission unit per the following requirements:
- The emission testing shall be conducted in accordance with 40 CFR Part 63 and 40 CFR Part 75.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rate:

For PE: 40 CFR Part 60, Appendix A, Method 1 through Method 5 and OAC rule 3745-17-03(B)(9). Alternative US EPA-approved test methods may be used with prior approval from Ohio EPA, SEDO.
 - During the emission testing, the emission unit shall be operated under operational conditions approved in advance by Ohio EPA, Southeast District Office (SEDO). Operational conditions that may need to be approved include, but are not limited to, the production rate, the type of material processed, material make-up (solvent content, etc.) or control equipment operational limitations (burner temperature, precipitator voltage, etc.). In general, testing shall be performed under *worst case* conditions expected during the life of the permit. As part of the information provided in the Intent to Test (ITT) notification form described below, the permittee shall provide a

description of the emission unit operational conditions they will meet during the emission testing and describe why they believe *worst case* operating conditions will be met. Prior to conducting the test(s), the permittee shall confirm with Ohio EPA, SEDO, that the proposed operating conditions constitute *worst case*. Failure to perform the emission test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.

- e. Not later than 30 day prior to the proposed test date(s), the permittee shall submit an ITT notification to Ohio EPA, SEDO. The ITT notification shall describe in detail the proposed test method(s) and procedure(s), the emission 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 Ohio EPA, SEDO's refusal to accept the result(s) of the emission test(s).
- f. Personnel from Ohio EPA, SEDO 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 emission units and the testing procedures provide a valid characterization of the emissions from the emission 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(s) responsible for the test(s) and submitted to Ohio EPA, SEDO 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 Ohio EPA, SEDO.

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

g) **Miscellaneous Requirements**

- (1) Any amendment to the Consent Decree shall supersede the special requirements of the Consent Decree contained in this permit.