11/19/2026

Mr. Vince Malone
Haverhill Coke Company LLC
2446 Gallia Pike
Franklin Furnace, OH 45629-8837

Facility ID: 0773000182
Permit Number: P0135628
County: Scioto

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 # (P0135628) 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:

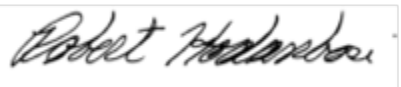
Andrea Moore
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Portsmouth City Health Dept., Air Pollution Unit
605 Washington St.
3rd Floor
Portsmouth, OH 45662

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 Portsmouth City Health Dept., Air Pollution Unit at (740)353-5156.

Sincerely,



Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Portsmouth; Kentucky; West Virginia

Public Notice

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: ***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

Haverhill Coke Company LLC
2446 Gallia Pike
Franklin Furnace, OH 45629-8837

ID#:	P0135628
Date of Action:	11/19/2026
Permit Desc:	Title V renewal permit for heat recovery coke plant which includes two 100 oven nonrecovery coke batteries, two quench towers, paved roads, coal handling, storage piles, coke processing.

The permit and complete instructions for requesting information or submitting comments may be obtained at: https://ohioepa.commentinput.com - Search by entering permit P0135628 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:	0773000182
Facility Name:	Haverhill Coke Company LLC
Facility Description:	Two 100 oven nonrecovery coke batteries, two quench towers, paved roads, coal handling, storage piles, coke processing.
Facility Address:	2446 Gallia Pike Franklin Furnace, OH 45629-8837
Permit #:	P0135628

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

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

☒ Particulate Matter ≤ 10 microns ☐ Single Hazardous Air Pollutant ☒ Combined Hazardous Air Pollutants ☐ 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.

Discussion: NA

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.: P0136811, P0133208	Affected EUs: Admin mod PTI P0136811, issued 11/27/2024 requesting revisions to PTIs P0125187 and P0131013 nonrecovery coke oven battery emission units P901 and P902 to resolve inconsistencies between Paragraph 17 emission limitations from the Gateway / Haverhill Second Amended Consent Decree (Civil Action No. 13-616-DRH-SCW), effective date of 07/10/2018 and emissions limitations which were previously incorporated into each coke oven battery emission unit in PTI P0125187, issued 7/22/2019. The reason for modification of PTI P0131013, issued 1/26/2022, is because it is the most recent PTI issued / active PTI for emission unit P902, which was modified for reasons unrelated to the CD in 2022. Admin mod PTI P0133208 issued 11/18/2026, to incorporate natural gas lancing (insignificant emission units P011 & P012) as part of the P901 & P902 coke oven battery operations, to update the waste gas stack Sulfur Dioxide pounds per ton emission limit and associated compliance method term, and to update coke oven battery 40 CFR Part 63 Subpart L and CCCCC MACT language.

Discussion of changes from the previous Title V: Administrative modification to emission unit P902 coke oven batteries (C and D) to allow for a lower powder activated carbon (PAC) injection rate (based on a Haverhill Coke Company July 2020 PAC trial) that also demonstrates compliance with the mercury emission limits of the P902 emission unit. The change from the previous Title V is revising the activated carbon injection system language from requiring an activated carbon injection rate of at least 60 pounds per hour to the activated carbon injection system shall be operated in a manner that will demonstrate compliance with the mercury emissions limits established under this section.

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.:	Affected EUs:

Minor Modification Description: NA

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.:	Affected EUs:

Significant Modification Description: NA

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 / off permit change** per OAC rule 3745-77-08(D)

PTI No.: P0131013 issued 1/26/2022	Affected EUs:P902

Reopening for Cause for Description: Off Permit Change Title V permit P0131013 issued 11/25/2022 incorporate the changes to P902 carbon injection mercury control language upon issuance of PTI P0131013.

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: P901, P902

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. Civil Action No. 13-616-DRH-SCW, effective 7/10/2018	Public Notice Date:	PTI No. P0136811	PTI Issuance Date: 11/27/2024

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. 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. 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:	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)	N	Listing of insignificant emissions units with applicable requirements.
B.3			Clarifying language that the facility ceased operation of the ambient Particulate Matter 10 Microns and Smaller in Diameter (PM_{10}) and Sulfur Dioxide (SO_2) monitoring network on June 30, 2025. The permittee ceased operation of the ambient Hazardous Air Pollutant (HAPs) monitoring network on June 30, 2014
B.4	3745-114-01		Ohio EPA Air Toxics Policy language for emission units P901, P902, P001, and P002.
B.5	N	40 CFR Part 63, Subparts A and ZZZZ	Clarifying and reference term for rule applicability determination regarding emissions units contained in the permit subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE MACT): P007, P008, and P009.

B.6	N	40 CFR Part 60, Subparts A and Y	Clarifying and reference term for rule applicability determination regarding emission units contained in the permit subject to the Standards of Performance for Coal Preparation and Processing Plants (NSPS): F003.
B.7	N	40 CFR Part 63, Subparts A, L, and CCCCC	Clarifying and reference term for rule applicability determination regarding emissions units contained I the permit subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Oven Batteries and Coke Ovens: Pushing, Quenching, and Battery Stacks: P001, P002, P901, and P902.
B.8	N	40 CFR Part 64	Clarifying term for emission units that are subject to the Compliance Assurance Monitoring (CAM) rules in 40 CFR Part 64. Emissions units P901 and P902 are subject to CAM based upon the uncontrolled potential to emit for particulate.

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

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.1:											
F001	15.61 TPY fugitive PM	3745-31-05(A)(3)	N	N	N	N	N	N	N	N	M, R, Rp, ET - The ton per year emission limitation is based on the emissions unit's potential to emit at the maximum potential vehicle miles traveled and US EPA AP-42 emission factors. All requirements for this EU have been transferred from the PTI.
F001	2.99 TPY fugitive PM_{10}	31-10 through 20	N	N	N	N	N	N	N	N	M, R, Rp, ET - The ton per year emission limitation is based on the emissions unit's potential to emit at the maximum potential vehicle miles traveled and US EPA AP-42 emission factors. All requirements for this EU have been transferred from the PTI.
F001	No visible emissions except for 3 minutes during any 60-minute period	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
F002	7.61 TPY fugitive PM from wind erosion, load-in and load-out	3745-31-05(A)(3)	N	N	N	N	N	N	N	N	M, R, Rp, ET - The ton per year emission limitation is based on the emissions unit's potential to emit at the maximum potential vehicle miles traveled and US EPA AP-42 emission factors. All requirements for this EU have been transferred from the PTI.
F002	3.78 TPY fugitive PM_{10} from wind erosion, load-in and load-out	31-10 through 20	N	N	N	N	N	N	N	N	M, R, Rp, ET - The ton per year emission limitation is based on the emissions unit's potential to emit at the maximum potential vehicle miles traveled and US EPA AP-42 emission factors. All requirements for this EU have been transferred from the PTI.
F002	No visible emissions except for 3 minutes in any hour from Batteries A & B storage piles	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	No visible emissions except for 1 minute in any hour from Batteries C & D storage piles and emergency coke storage piles										
F003	5.3 TPY fugitive PM	3745-31-05(A)(3)	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage restriction to demonstrate compliance with emission limitation. ET: Compliance with emission limitation determined by monitoring and record keeping requirements. All requirements for this EU have been transferred from the PTI.
F003	2.56 TPY fugitive PM_{10}	31-10 through 20	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage restriction to demonstrate compliance with emission limitation. ET: Compliance with emission limitation determined by monitoring and record keeping requirements. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
F003	Visible emissions of fugitive dust shall not exceed 20% opacity , as 3-minute average	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
F003	There shall be not be discharged to the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system	40 CFR Part 60, Subpart Y	N	N	Y	Y	Y	N	N	N	ET: coal processing and conveying equipment are enclosed; If required, emission testing using US EPA approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	processing coal, fugitive dust which exhibit 20% opacity or greater										
F004	3.09 lbs/hr PM, PM_{10} from baghouse	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
F004	0.008 gr/dscf PM from baghouse	31-10 through 20	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
F004	4.88 TPY fugitive PM	3745-31-05(A)(3)	N	N	Y	Y	Y	N	N	N	ET: The emission limitation is based on the emissions unit's potential to emit at the maximum material handling rates and permittee-supplied emission factors.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
F004	Fugitive visible emissions shall not exceed 20% opacity as a 3-minute average	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
F004	Visible particulate stack emissions shall not exceed 20% opacity as a 6-minute average	17-07(A)(1)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
F004	13.53 TPY PM, PM_{10} from baghouse	31-10 through 20	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
F004	2.30 TPY fugitive PM_{10}	31-10 through 20	N	N	Y	Y	Y	N	N	N	ET: The emission limitation is based on the emissions unit's potential to emit at the maximum material handling rates and permittee-supplied emission factors.
P001 P002	HAP emissions shall not exceed 6.43 tons per year(excluding HCl) for P001, P002, P901, and P902, combined.	3745-31-05(A)(3)	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation on P901 to demonstrate compliance with emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P001 P002	PM emissions shall not exceed 216.00 pounds per hour and 197.10 tons per year as a rolling, 12-month summation.	31-10 through 20	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P001 P002	PM_{10} emissions shall not exceed 24.00 pounds per hour and 21.90 tons per year as rolling, 12-month summation.	31-10 through 20	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P001 P002	PM_{10} emissions shall not exceed 0.05 pound per ton of coal charged.	31-10 through 20	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P001 P002	Visible particulate emissions from the quench tower shall not exceed 20% opacity as a 6-minute average, except as provided by rule.	17-07(A)(1)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P001	The concentration	40 CFR Part 63,	N	Y	Y	Y	Y	y	N	N	OR: Permit terms contain operating restrictions as specified by Subpart CCCCC.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P002	of TDS in quench water shall not exceed 1,100 mg/L	Subpart CCCCC									All requirements for this EU have been transferred from the PTI.
P001 P002 P901 P902	Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for P901, P902, P001, and P002 combined.	3745-31-05(D)	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation on P901 / P902 to demonstrate compliance with emission limitation. ET: Compliance based on lead emission factors from results of the most recent stack test that demonstrative compliance and AP-42 emission factors. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P014	VOC emissions shall not exceed 1.92 tons per month, averaged over a 12-month, rolling period.	3745-31-05(A)(3)	N	N	N	N	N	N	N	N	M, R, Rp, ET – The tons per month emission limitation is based on the emission unit's potential to emit. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	Lead emissions shall not exceed 0.060 pound per hour from waste gas stack.	3745-31-05(D)	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation on P901 / P902 to demonstrate compliance with emission limitation. ET: compliance based on most recent emission test that demonstrated compliance. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 coking	HAP (excluding HCl) emissions shall not exceed 0.0057 pound/ton coal from waste gas stack.	3745-31-05(A)(3)	N	Y	Y	N	Y	N	N	N	OR: Permit terms contain coal usage rate limitation on P901 / P902 to demonstrate compliance with emission limitation. ET: the emission limit was derived by the summation of the individual HAP pound per ton emission factors from AP-42 and HCC test data. If required, emission testing using USEPA-approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	Lead emissions shall not exceed 0.30 pound per hour from a single HRSG bypass vent stack.	3745-31-05(D)	N	Y	Y	N	Y	N	N	N	OR: Permit terms contain coal usage rate limitation on P901 / P902 to demonstrate compliance with emission limitation. ET: compliance based on most recent emission test that demonstrated compliance. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 coking	HAP (excluding HCl) emissions shall not exceed 0.031 pound per ton from a single HRSG bypass vent stack.	3745-31-05(A)(3)	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation on P901 to demonstrate compliance with emission limitation. ET: the emission limit was derived by the summation of the individual HAP pound per ton emission factors from AP-42 and HCC test data. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	HCl emissions shall not exceed 0.10 pound HCl per ton coal from waste gas stack.	3745-31-05(A)(3)	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation on P901 / P902 to demonstrate compliance with emission limitation. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	HCl emissions shall not exceed 12.06 pounds per hour and	3745-31-05(A)(3)	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation on P901/ P902 to demonstrate compliance with emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	44.02 tons per year from waste gas stack.										
P901 P902 coking	HCl emissions shall not exceed 2.01 pounds HCl per ton coal and 48.24 pounds per hour, and from a single HRSG bypass vent stack.	3745-31-05(A)(3)	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	HCl emissions shall not exceed 38.59 tons per year from all HRSG bypass vent	3745-31-05(A)(3)	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	stacks combined for P901 and P902.										
P901 P902 coking	Visible particulate emissions from the waste gas stack(s) shall not exceed 10% opacity as a 6-minute average.	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P901 P902 coking	Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20%	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	opacity as a 3-minute average.										
P901 P902 coking	No visible emissions shall be permitted from the common tunnel or its associated piping.	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P901 coking	Filterable Particulate Matter emissions (PM) and filterable particulate matter emissions less than 10	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	microns in diameter (PM_{10}) shall not exceed 17.14 pounds per hour and 75.09 tons per year as a rolling, 12-month summation from the waste gas stack.										
P901 P902 coking	Sulfur Dioxide (SO_2) emissions shall not exceed 192.0 pounds per hour as a 3-hour block average from the waste gas	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: Equipped with a continuous SO_2 emission monitor on main coking stack therefore emission testing not necessary in permit terms. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	stack except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements).										
P901 P902 coking	SO_2 emissions shall not exceed 700.80 tons per year as a rolling, 12-month summation from the waste gas stack.	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: Equipped with a continuous SO_2 emission monitor on main coking stack therefore emission testing not necessary in permit terms. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 coking	Nitrogen Oxides (NO_x) emissions shall not exceed 120.0 pounds per hour and 438.0 tons per year as a rolling, 12-month summation from the waste gas stack.	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	Carbon Monoxide (CO) emissions shall not exceed 21.81 pounds per hour and 95.54 tons per	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	year as a rolling, 12-month summation from the waste gas stack.										
P901 P902 coking	Volatile Organic Compound (VOC) emissions shall not exceed 4.67 pounds per hour and 20.47 tons per year as a rolling, 12-month summation from the	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	waste gas stack.										
P901 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 35.57 pounds per hour from a single HRSG bypass vent stack.	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 coking	Beginning on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emissions	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. Emission limit required per Gateway / Haverhill Consent Decree effective 11/7/2014. Final PTI P0119826 issued final 2/19/2015. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	unit P901 is fully operational but not later than February 7, 2019: PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack.										
P901 P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	from all HRSG bypass vent stacks combined for emissions units P901 and P902.										
P901 P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 57.6 tons per 24 months from all HRSG bypass vent stacks combined for emissions units P901 and P902, as a rolling, 24-month total.	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	The compliance period for this emission limit will begin on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emission unit P901 is fully operational or on February 7, 2019, but will not become enforceable until 24 months after the notification or										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	on February 7, 2021.										
P901 P902 coking	SO_2 emissions shall not exceed 480.0 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack.	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 coking	Beginning on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emissions	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	unit P901 is fully operational but not later than February 7, 2019: SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack. For any bypass venting incident lasting 48 consecutive hours or longer, SO_2 emissions shall not										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack.										
P901 P902 coking	SO_2 emissions shall not exceed 384.0 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 coking	SO_2 emissions shall not exceed 542.6 tons per 24 months from all HRSG bypass vent stacks combined for emissions units P901 and P902 as a rolling, 24-month total. The compliance period for this emission limit will begin on the date that the permittee notifies Ohio EPA and USEPA that the redundant	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	HRSG at emission unit P901 is fully operational or on February 7, 2019, but will not become enforceable until 24 months after the notification or on February 7, 2021.										
P901 P902 coking	NO_x emissions shall not exceed 24.0 pounds per hour from a single HRSG bypass vent stack and 19.20 tons per year from all	31-10 through 20	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. ET: Compliance based on emission factor from Sun Coke Jewell Coke Co. dated September 1992. Emissions testing is required for NO_x from the Waste Gas Stack. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	HRSG bypass vent stacks combined for emissions units P901 and P902..										
P901 P902 coking	CO emissions shall not exceed 4.36 pounds per hour from a single HRSG bypass vent stack and 4.19 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.	31-10 through 20	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. ET: Compliance based on emission factor from Sun Coke Jewell Coke Co. dated September 1992. Emissions testing is required for NO_x from the Waste Gas Stack. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 coking	VOC emissions shall not exceed 0.93 pound per hour from a single HRSG bypass vent stack and 0.90 ton per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.	31-10 through 20	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. ET: Compliance based on emission factor from Sun Coke Jewell Coke Co. dated September 1992. Emissions testing is required for VOC from the Waste Gas Stack. All requirements for this EU have been transferred from the PTI.
P901 coking	Filterable Particulate emissions from the lime spray dryer baghouse exhaust shall	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	not exceed 0.008 gr/dscf of exhaust gases.										
P901 P902 coking	SO_2 emissions shall not exceed 1.6 lbs per ton coal from the waste gas stack. NO_x emissions shall not exceed 1 lb per ton coal from the waste gas stack. CO emissions shall not exceed 20 ppm from the waste gas stack.	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	VOC emissions shall not exceed 10 ppm from the waste gas stack.										
P901 P902 charging	Visible particulate emissions from the charging baghouse stack shall not exceed 10% opacity as a 6-minute average.	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P901 P902 charging	Visible particulate emissions of fugitive dust from charging	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	operations shall not exceed 20% opacity, as an average of five consecutive charges.										
P901 P902 charging	Filterable PM/PM_{10} emissions shall not exceed 0.0081 pound per ton of dry coal charged from the charging baghouse.	31-10 through 20, 40 CFR Part 63, Subpart L	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain operating restriction as specified by Subpart L. All requirements for this EU have been transferred from the PTI.
P901 P902 charging	Coke oven emissions shall not exceed 0.0 percent	40 CFR Part 63, Subpart L	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain operating restrictions as specified by Subpart L.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	leaking coke oven doors; or monitor for negative pressure										
P901 P902 charging	Filterable PM/PM_{10} emissions shall not exceed 3.3 tons per year as a rolling, 12-month summation from the charging baghouse.	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 P902 charging	Fugitive PM emissions shall not exceed 3.89 pounds per hour and 3.55 tons per year	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	from charging.										All requirements for this EU have been transferred from the PTI.
P901 P902 charging	Fugitive PM_{10} emissions shall not exceed 1.17 pounds per hour and 1.06 tons per year as a rolling, 12-month summation from charging.	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements. All requirements for this EU have been transferred from the PTI.
P901 P902 charging	SO_2 emissions shall not exceed 0.14 pound per hour and 0.13 ton per year as a rolling, 12-month summation from the	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements. If required, emission testing using US EPA-approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	charging baghouse.										
P901 P902 charging	CO emissions shall not exceed 1.34 pounds per hour and 1.23 tons per year as a rolling, 12-month summation from the charging baghouse.	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements. If required, emission testing using US EPA-approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI
P901 P902 charging	VOC emissions shall not exceed 0.96 pound per hour and exceed 0.88 ton per year as a rolling, 12-month	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements. If required, emission testing using US EPA-approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	summation from the charging baghouse.										
P901 P902 charging	SO_2 emissions shall not exceed 0.0003 lb per ton coal from the charging baghouse. CO emissions shall not exceed 0.0028 lb per ton coal from the charging baghouse. VOC emissions shall not exceed 0.002 lb per ton coal from the	31-10 through 20,	N	Y	Y	Y	Y	N	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. ET: The emission limitations are based on the maximum charging rate and permittee-supplied emission factors. Compliance with emission limitation determined by monitoring and record keeping requirements. If required, emission testing using US EPA-approved Test Methods will be performed. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	charging baghouse.										
P901 P902 pushing	Visible particulate emissions of fugitive dust from the pushing operations shall not exceed 20% opacity as a 3-minute average.	3745-31-05(A)(3)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P901 P902 pushing	Filterable PM/PM_{10} emissions shall not exceed 13.72 pounds per hour and 12.53 tons per year as a rolling, 12-	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	month summation from the flat push hot car vented to multiclone dust collector.										
P901 P902 pushing	SO_2 emissions shall not exceed 24 pounds per hour and 21.9 tons per year as a rolling, 12-month summation from the flat push hot car vented to multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 pushing	NO_x emissions shall not exceed 7.68 pounds per hour and 7.01 tons per year as a rolling, 12-month summation from the flat push hot car vented to multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.
P901 P902 pushing	CO emissions shall not exceed 36.96 pounds per hour and 33.73 tons per year as a rolling, 12-month summation	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	from the flat push hot car vented to multiclone dust collector.										
P901 P902 pushing	VOC emissions shall not exceed 96.0 pounds per hour and 87.6 tons per year as a rolling, 12-month summation from the flat push hot car vented to multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.
P901 P902 pushing	Filterable particulate emissions from the flat	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	push hot car vented to multiclone dust collector exhaust shall not exceed 0.04 pound PM_{10}/ton of coke.										
P901 P902 pushing	SO_2 emissions shall not exceed 0.05 lb per ton coal from the flat push hot car vented to the multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.
P901 P902 pushing	NO_x emissions shall not exceed 0.016 lb per ton coal from the flat push hot car	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	vented to the multiclone dust collector.										
P901 P902 pushing	CO emissions shall not exceed 0.077 lb per ton coal from the flat push hot car vented to the multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.
P901 P902 pushing	VOC emissions shall not exceed 0.2 lb per ton coal from the flat push hot car vented to the multiclone dust collector.	31-10 through 20.	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain restriction on maximum number of pushes and coal usage rate to demonstrate compliance with emission limitations. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P901 P902 pushing	Visible particulate emissions from the flat push hot car vented to multiclone dust collector stacks shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.	17-07(A)(1)	N	N	Y	Y	Y	Y	N	N	All requirements for this EU have been transferred from the PTI.
P902 coking	Mercury (Hg) emissions shall not exceed 0.01 pound per hour as a 30-day average and 55.5	3745-31-05(A)(3)	N	N	Y	Y	Y	N	N	N	ET: Mercury sorbent trap monitoring system used to demonstrate compliance with this emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	pounds per rolling, 12-month period from the waste gas stack.										
P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 30.69 pounds per hour and 134.43 tons per year as a rolling, 12-month summation from the waste gas stack.	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 35.57 pounds per hour from a single HRSG bypass vent stack.	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P902 coking	Beginning on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emissions unit P902 is fully operational but not later	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	than February 7, 2017: PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack.										
P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year from all HRSG bypass vent stacks combined for	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	emissions units P901 and P902.										
P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 28.8 tons per 24 months from all HRSG bypass vent stacks at emissions unit P902, as a rolling, 24-month total. The compliance period for this emission limit will begin on the date that	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emission unit P902 is fully operational or on February 7, 2017, but will not become enforceable until 24 months after the notification or on February 7, 2019. This limit is not applicable after the combined emissions units P901										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	and P902 bypass vent stack limit described below takes effect.										
P902 coking	PM/PM_{10} (filterable and condensable) emissions shall not exceed 57.6 tons per 24 months from all HRSG bypass vent stacks combined for emissions units P901 and P902 as a rolling, 24-month total. The	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	compliance period for this emission limit will begin on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emission unit P901 is fully operational or on February 7, 2019, but will not become enforceable until 24 months after the notification or on February 7, 2021.										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P902 coking	Beginning on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at P902 is fully operational but not later than February 7, 2017: SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack. For any bypass venting	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	incident lasting 48 consecutive hours or longer, SO_2 emissions shall not exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack.										
P902 coking	SO_2 emissions shall not exceed 271.3 tons per 24 months from all HRSG bypass vent stacks at emissions	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	unit P902 as a rolling, 24-month total. The compliance period for this emission limit will begin on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emission unit P902 is fully operational or on February 7, 2017, but will not become enforceable until 24 months after the										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	notification or on February 7, 2019. This limit is not applicable after the combined emissions units P901 and P902 bypass vent stack limit described below takes effect.										
P902 coking	SO_2 emissions shall not exceed 542.6 tons per 24 months from all HRSG bypass vent stacks combined for	31-10 through 20	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain bypass operating limitations to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	emissions units P901 and P902 as a rolling, 24-month total. The compliance period for this emission limit will begin on the date that the permittee notifies Ohio EPA and USEPA that the redundant HRSG at emission unit P901 is fully operational or on February 7, 2019, but will not become enforceable until 24										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	months after the notification or on February 7, 2021.										
P902 coking	Particulate (filterable and condensable) emissions from the lime spray dryer baghouse exhaust shall not exceed 0.014 gr/dscf of exhaust gases.	31-10 through 20,	N	Y	Y	Y	Y	Y	N	N	OR: Permit terms contain coal usage rate limitation to demonstrate compliance with annual emission limitation. All requirements for this EU have been transferred from the PTI.
P901 P902 coking	PM emissions from the waste gas stack shall not exceed 0.0049 gr/dscf at 10% oxygen per 40	40 CFR Part 63, Subpart CCCCC	N	Y	N	N	N	Y	N	N	OR: Permit terms contain operating restriction as specified by Subpart CCCCC.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	CFR 63.7297(a). * Mercury emissions from the waste gas stack shall not exceed 3.0E-06 gr/dscf at 10% oxygen per 40 CFR 63.7297(b). * Total Acid Gases emissions from the waste gas stack shall not exceed 0.049 gr/dscf at 10% oxygen per 40										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	CFR 63.7297(c). * Total PAH emissions from the waste gas stack shall not exceed 4.8E-07 gr/dscf at 10% oxygen per 40 CFR 63.7297(d). *										
P901 P902 coking	PM emissions from any HRSG Bypass Stack shall not exceed 0.032 gr/dscf	40 CFR Part 63, Subpart CCCCC	N	Y	N	N	N	Y	N	N	OR: Permit terms contain operating restriction as specified by Subpart CCCCC.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	at 10% oxygen. * Mercury emissions from any HRSG Bypass Stack shall not exceed 1.2E-05 gr/dscf at 10% oxygen. * Total Acid Gases emissions from any HRSG Bypass Stack shall not exceed 0.095 gr/dscf at 10% oxygen. *										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	Total PAH emissions from any HRSG Bypass Stack shall not exceed 2.7E-06 gr/dscf at 10% oxygen. * Formaldehyde emissions from any HRSG Bypass Stack shall not exceed 0.0012 gr/dscf at 10% oxygen. * Visible particulate										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	emissions from each bypass vent stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average. ** *in accordance with 63.7298, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026.										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	**in accordance with 63.7299, the permittee shall comply with these emission limitations by the compliance date of 07/07/2025.										
P901 P902 Pushing	Particulate emissions from the flat push hot car vented to multiclone dust collector exhaust shall	40 CFR Part 63, Subpart CCCCC	N	Y	N	N	N	Y	N	N	OR: Permit terms contain operating restriction as specified by Subpart CCCCC.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	not exceed 0.04 lb of PE/ton of coke per 40 CFR 63.7290(a)(4). Mercury emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 8.9E-07 lb per ton of coke per 40 CFR 63.7290(b). * Total Acid Gas emissions the										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.013 lb per ton of coke per 40 CFR 63.7290(c). * Hydrogen Cyanide emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.0015 lb per ton of coke										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	per 40 CFR 63.7290(d). * Total Polycyclic Aromatic Hydrocarbons emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 4.0E-04 lb per ton of coke per 40 CFR 63.7290(e). * Maintain daily average fan motor										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	amperes at or above minimum motor amperes established during the initial performance test per 40 CFR 63.7290(f)(3)(i) or maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	initial performance test per 40 CFR 63.7290(f)(3)(ii). Maintain the daily average pressure drop of the multiclone at or below the minimum level established during the initial performance test per 40 CFR 63.7290(f)(4).										

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
	*in accordance with 63.7290, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026.										

Ohio Environmental Protection Agency

DRAFT

Division of Air Pollution Control
Title V Permit

for

Haverhill Coke Company LLC

Facility ID:	0773000182
Permit Number:	P0135628
Permit Type:	Renewal
Issued:	11/18/2026
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Haverhill Coke Company LLC

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Authorization

Facility ID:	0773000182
Facility Description:	Two 100 oven nonrecovery coke batteries, two quench towers, paved roads, coal handling, storage piles, coke processing.
Application Number(s):	A0076220
Permit Number:	P0135628
Permit Description:	Title V renewal permit for heat recovery coke plant which includes two 100 oven nonrecovery coke batteries, two quench towers, paved roads, coal handling, storage piles, coke processing.
Permit Type:	Renewal
Issue Date:	
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0131012

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

Haverhill Coke Company LLC
2446 Gallia Pike
Franklin Furnace, OH 45629-8837

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

Portsmouth City Health Dept., Air Pollution Unit
605 Washington St.
3rd Floor
Portsmouth, OH 45662
(740)353-5156

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 Portsmouth City Health Dept., Air Pollution Unit. 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/m3 = 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/m3 = 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_2S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H_2SO_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/m3 = 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 Portsmouth City Health Dept., Air Pollution Unit. 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit) 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit.

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 Portsmouth City Health Dept., Air Pollution Unit. 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit 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 Portsmouth City Health Dept., Air Pollution Unit, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

B. Facility-Wide Terms and Conditions

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

   a) None.

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

   a) P007 - 685 HP emergency generator - PBR issued 9/02/08;

   b) P008 - 685 HP emergency generator –PBR issued 9/02/08; and

   c) P009 – 180 HP fire water emergency pump – PBR issued 9/02/08.

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

3. The permittee ceased operation of the ambient Particulate Matter 10 Microns and Smaller in Diameter (PM_{10}) and Sulfur Dioxide (SO_2) monitoring network on June 30, 2025. The permittee ceased operation of the ambient Hazardous Air Pollutant (HAPs) monitoring network on June 30, 2014.

4. The following emissions units are subject to the OEPA air toxics policy: P901, P902, P001 and P002. To ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA=s AAir Toxics Policy@ and is (are) based on both the materials used and the design parameters of the emissions unit=s exhaust system, as specified in the application. The Ohio EPA=s AAir Toxics Policy@ was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

   Pollutant: arsenic

   TLV (Ug/m3): 10

   Maximum Hourly Emission Rate (lbs/hr): 0.070

   Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.146

   MAGLC (Ug/m3): 0.238

   Pollutant: benzene

   TLV (Ug/m3): 32,000

   Maximum Hourly Emission Rate (lbs/hr): 0.105

   Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.25

   MAGLC (Ug/m3): 762

Pollutant: mercury

TLV (Ug/m3): 10

Maximum Hourly Emission Rate (lbs/hr): 0.034

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.151

MAGLC (Ug/m3): 0.238

Pollutant: naphthalene

TLV (Ug/m3): 52,000

Maximum Hourly Emission Rate (lbs/hr): <0.066

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.166

MAGLC (Ug/m3): 1,240

Pollutant: phosphorus

TLV (Ug/m3): 100

Maximum Hourly Emission Rate (lbs/hr): 0.22

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.373

MAGLC (Ug/m3): 2.38

Pollutant: toluene

TLV (Ug/m3): 188,000

Maximum Hourly Emission Rate (lbs/hr): 0.108

Predicted 1-Hour Maximum Ground-Level Concentration (Ug/m3): 0.241

MAGLC (Ug/m3): 4,480

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a 'modification' as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a modification:

a) changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled 'American Conference of Governmental Industrial Hygienists (ACGIH)' than the lowest TLV value specified in the above table;

b) changes to the emissions unit or its exhaust parameters (e.g., increased emission rate {not including an increase in an Aallowable@ emission limitation specified in the terms and conditions of this permit}, reduced exhaust gas flow rate, and decreased stack height);

c) changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,

d) changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a modification requiring a permit to install, if the following conditions are met:

e) the change is not otherwise considered a modification under OAC Chapter 3745-31;

f) the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

g) prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determined that the changed emissions unit still satisfies the Air Toxics Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a modification as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:

a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and

b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

5. The following insignificant emissions units contained in this permit are subject to 40 CFR Part 63, Subparts A and ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines: P007, P008, and P009. The complete NESHAP requirements, including the NESHAP General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website ***http://ecfr.gov*** or by contacting the Portsmouth Local Air Agency.

(Authority for term: 40 CFR Part 63)

6. The following emissions unit contained in this permit is subject to 40 CFR Part 60, Subparts A and Y, Standards of Performance for Coal Preparation and Processing Plants (NSPS): F003. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website ***http://ecfr.gov*** or by contacting the Portsmouth Local Air Agency.

(Authority for term: 40 CFR Part 60)

7. The following emissions unit contained in this permit is subject to 40 CFR Part 63, Subparts A and L, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Oven Batteries: P901 and P902.

   The following emissions units contained in this permit are subject to 40 CFR Part 63, Subparts A and CCCCC, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Coke Ovens: Pushing, Quenching, and Battery Stacks: P901 and P902.

   On July 5, 2024, US EPA published final amendments to the NESHAP rules in Subpart L for Coke Batteries and Subpart CCCCC for Coke Ovens: Pushing, Quenching, and Battery Stacks. The applicable emissions standards, work practices, monitoring, recordkeeping, reporting, and performance testing requirements, and any associated compliance dates specified in the NESHAP rules, are incorporated by reference in the emissions units' terms and conditions in Section C. of this permit. Petitions for reconsideration of these NESHAP rules and final amendments have been submitted to US EPA. Should the applicable emissions standards, work practices, monitoring, recordkeeping, reporting, and performance testing requirements contained in the NESHAP rules, and incorporated by reference in Section C. of this permit, be amended, stayed, or vacated, all or in part, the changes may be incorporated into the terms and conditions of this permit by means of a minor permit modification. The permittee shall not be subject to NESHAP emission standards, work practices, and associated requirements cited in Section C. of this permit that are stayed or vacated by US EPA.

   The complete NESHAP requirements, including the NESHAP General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website ***www.ecfr.gov*** or by contacting the Portsmouth Local Air Agency.

   (Authority for term: 40 CFR Part 63)

8. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Portsmouth Local Air Agency has approved a compliance assurance monitoring plan for emissions units P901 and P902 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

   [Authority for term: 40 CFR Part 64]

C. Emissions Unit Terms and Conditions

1. F001, Roadways and parking areas

Operations, Property and/or Equipment Description:

Paved Roadways and Parking Areas

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0104223 issued 12/26/2008)	Fugitive particulate matter (PM) emissions shall not exceed 15.61 tons per year. There shall be no visible particulate emissions except for 3 minutes during any 60-minute period. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)b through b)(2)g)
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Fugitive particulate matter emissions with a diameter less than or equal to 10 microns (PM_{10}) shall not exceed 2.99 tons per year.

(2) Additional Terms and Conditions

a. The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadways:

Batteries AB and CD
Coke and Coal Handling
Main Gate Parking Area

b. The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by water flushing 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 employ best available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved shoulders of all paved roadways with water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

d. 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 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.

e. 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.

f. 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.

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

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

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

paved roadways	minimum inspection frequency
Batteries AB and CD	Daily
Coal and Coke Handling	Daily

paved parking areas	minimum inspection frequency
Main Gate Parking	Daily

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

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

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

(3) The permittee may, upon receipt of written approval from the Portsmouth Local Air Agency, modify the above-mentioned inspection frequencies if operating experience indicated that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

[Authority for term: OAC rules 3745-31-05(A)(3) and 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 and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

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

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

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

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

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

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

f) Testing Requirements

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

a. Emissions Limitation

Fugitive PM emissions shall not exceed 15.61 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the vehicle miles traveled (VMT) per year for the average vehicle fleet weight, times the 0.33 pound/VMT emission factor, times 0.20, assuming a 80% control efficiency for water flushing the roads, and then dividing by 2,000 pounds per ton.

Compliance for the paved roadway emissions from truck hauling associated with the emergency coke storage pile shall be demonstrated by multiplying the vehicle miles traveled (VMT) per year for the average vehicle fleet weight, times the 5.74 pounds/VMT emission factor, times 0.20, assuming a 80% control efficiency for water flushing the roads, and then dividing by 2,000 pounds per ton.

The particulate emission factors were calculated using AP-42 Section 13.2.1, Equation (1), dated 12/03. The control efficiency was obtained from RACM, Table 2.1.1-3, dated 10/80.

b. Emission Limitation:

There shall be no visible particulate emissions except for 3 minutes during any 60-minute period.

Applicable Compliance Method:

Compliance with the emission limitation for the paved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in Appendix on Test Methods in 40 CFR Part 60 (Standards of Performance for New Stationary Sources, as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

c. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 2.99 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the vehicle miles traveled (VMT) per year for the average vehicle fleet weight, times the 0.06 pound/VMT emission factor, times 0.20, assuming a 80% control efficiency for water flushing the roads, and then dividing by 2,000 pounds per ton.

Compliance for the paved roadway emissions from truck hauling associated with the emergency coke storage pile shall be demonstrated by multiplying the vehicle miles traveled (VMT) per year for average vehicle fleet weight, times the 1.12 pounds/VMT emission factor, times 0.20, assuming a 80% control efficiency for water flushing the roads, and then dividing by 2,000 pounds per ton.

The particulate emission factors were calculated using AP-42 Section 13.2.1, Equation (1), dated 12/03. The control efficiency was obtained from RACM, Table 2.1.1-3, dated 10/80.

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

g) Miscellaneous Requirements

(1) None.

2. F002, Coal & coke storage piles

Operations, Property and/or Equipment Description:

Coal and coke storage piles

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0106016 issued 02/19/2015)	Fugitive particulate matter (PM) emissions shall not exceed 7.61 tons per year. <u>Batteries A and B storage piles</u> There shall be no visible particulate emissions except for 3 minutes in any hour. <u>Batteries C and D storage piles</u> There shall be no visible particulate emissions except for 1 minute in any hour. <u>Emergency coke storage pile(s)</u> There shall be no visible particulate emissions except for 1 minute in any hour. See b)(2)g. 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 OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Fugitive particulate matter emissions with a diameter less than or equal to 10 microns (PM_{10}) shall not exceed 3.78 tons per year.

(2) Additional Terms and Conditions

a. The storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-31-05 and 3745-31-10 through 20 are listed below:

coal storage pile(s)
coke storage pile(s)
emergency coke storage pile(s)

b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the following control measures to ensure compliance:

	Load-In	Load-Out
open coal pile	stacking conveyor and water sprays	under pile gravity feed to conveyor
enclosed coal pile	dome enclosure	under pile gravity feed to conveyor
Open coke pile (transfer tower #2)	conveyor	front end loader
emergency coke pile (transfer tower #1)	conveyor	front end loader
emergency coke pile (15 acres)	truck	front end loader

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned 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 unnecessary.

d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the open coal storage pile with water at sufficient treatment frequencies to ensure compliance and dome enclosure of enclosed coal storage pile. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile 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.

f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-31-10 through 20.

g. If the permittee combines the storage piles for Batteries A & B and Batteries C & D into one common pile, then BAT for all storage piles shall be one minute in any hour.

h. For the purposes of this permit, "Coke" includes "Run of Oven Coke", Screened Coke", "Coke Breeze", and "Quench Pit Coke" or any combination of these materials.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-in inspection frequency
All	Daily

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

(2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-out inspection frequency
All	Daily

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

(3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-out inspection frequency
All	Daily

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

(4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

The permittee may, upon receipt of written approval from the Portsmouth Local Air Agency, modify the above-mentioned inspection frequencies if operating experience indicated that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

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

a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(5)d shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

e) Reporting Requirements

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

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

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

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

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

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

f) Testing Requirements

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

a. Emissions Limitation

Fugitive PM emissions shall not exceed 7.61 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. coal pile load-in

Open:

Multiply the maximum tons of coal handled per year times the 0.001 pound per ton particulate emission factor, times 0.30 assuming a 70% control efficiency for the stacking conveyor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Multiply the maximum tons of coal handled per year times the 0.001 pound per ton particulate emission factor, times 2 enclosed transfer points, times 0.05 assuming a 95% control efficiency for the enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Domed:

Multiply the maximum tons of coal handled per year times the 0.001 pound per ton particulate emission factor, times 0.05 assuming a 95% control efficiency, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. coal pile wind erosion

Open:

Multiply the maximum area of the coal storage pile, in acres, times 366, the maximum number of days per year, times the 7.99 pounds/day/acre emission factor, times 0.50 assuming a 50% control efficiency for the water sprays, and divide by 2,000 pounds per ton. The particulate emission factor was calculated in accordance with AP-40, Section 4, Equation 5. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 1/80.

Domed:

Multiply the maximum area of the coal storage pile, in acres, times 366, the maximum number of days per year, times 7.99 pound/day/acre emission factor, times 0.05 assuming a 95% control efficiency for the water sprays, and divide by 2,000 pounds per ton. The particulate emission factor was calculated in accordance with AP-40, Section 4, Equation 5. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 1/80.

iii. coal pile load-out

Open:

Multiply the maximum tons of coal handled per year times the 0.0010 pound per ton emission factor, times 0.05 assuming a 95% control efficiency for underpile conveyor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Domed:

Multiply the maximum tons of coal handled per year times the 0.0010 pound per ton emission factor, times 0.05 assuming a 95% control efficiency for underpile conveyor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iv. coke pile load-in

Open (partial enclosure):

Multiply the maximum tons of coke handled per year times the 0.00129 pound per ton particulate emission factor, times 0.30 assuming a 70% control efficiency for partial enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Open (uncontrolled)

Multiply the maximum tons of coke handled per year for the emergency coke pile (250,000 tons) times the 0.00129 pound per ton particulate emission factor and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95.

v. coke pile wind erosion

Open:

Multiply the maximum area of the coke storage pile(s), in acres, times 366, the maximum number of days per year, times 1.74 pounds/day/acre emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated in accordance with AP-40, Section 4, Equation 5.

vi. coke pile load-out

Open (partial enclosure):

Multiply the maximum tons of coke handled per year times the 0.00129 pound per ton emission factor, times 0.30 assuming a 70% control efficiency for partial enclosure during load-out, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Open (uncontrolled)

Multiply the maximum tons of coke handled per year for the emergency coke pile (250,000 tons) times the 0.00129 pound per ton particulate emission factor and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95.

b. Emission Limitation:

There shall be no visible particulate emissions except for 3 minutes in any hour for the Batteries A and B storage piles.

There shall be no visible particulate emissions except for 1 minute in any hour for the Batteries C and D storage piles.

There shall be no visible particulate emissions except for 1 minute in any hour for the emergency coke storage piles.

Applicable Compliance Method:

Compliance with the visible particulate emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in Appendix on Test Methods in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

c. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 3.78 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. coal pile load-in

Open:

Multiply the maximum tons of coal handled per year times the 0.0005 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the stacking conveyor, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Multiply the maximum tons of coal handled per year times the 0.0005 pound per ton particulate emission factor, times 2 enclosed transfer points, times 0.05 assuming a 95% control efficiency for the enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Domed

Multiply the maximum tons of coal handled per year times the 0.0005 pound per ton emission factor, times 0.05, assuming a 95% control efficiency for the stacking tube, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table

13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. coal pile wind erosion

Open:

Multiply the maximum area of the coal storage pile, in acres, times 366, the maximum number of days per year, times 3.99 pounds/day/acre emission factor, times 0.50 assuming a 50% control efficiency for the water sprays, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated in accordance with AP-40, Section 4, Equation 5. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 1/80.

Domed:

Multiply the maximum area of the coal storage pile, in acres, times 366, the maximum number of days per year, times 3.99 pounds/day/acre emission factor, times 0.05 assuming a 95% control efficiency for the water sprays, and divide by 2,000 pounds per ton. The particulate emission factor was calculated in accordance with AP-40, Section 4, Equation 5. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 1/80.

iii. coal pile load-out

Open:

Multiply the maximum tons of coal handled per year times the 0.0005 pound per ton emission factor, times 0.05 assuming a 95% control efficiency for underpile conveyor, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Domed:

Multiply the maximum tons of coal handled per year times the 0.0005 pound per ton emission factor, times 0.05 assuming a 95% control efficiency for underpile conveyor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iv. coke pile load-in

Open (partial enclosure):

Multiply the maximum tons of coke handled per year times the 0.00061 pound per ton particulate emission factor, times 0.30 assuming a 70% control efficiency for partial enclosure, and divide by 2,000 pounds per ton. The

particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Open (uncontrolled)

Multiply the maximum tons of coke handled per year for the emergency coke pile (250,000 tons) times the 0.00061 pound per ton particulate emission factor and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95.

v. coke pile wind erosion

Open

Multiply the maximum area of the coke storage pile(s), in acres, times 366, the maximum number of days per year, times 0.87 pound/day/acre emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated in accordance with AP-40, Section 4, Equation 5.

vi. coke pile load-out

Open (partial enclosure)

Multiply the maximum tons of coke handled per year times the 0.00061 pound per ton emission factor, times 0.30 assuming a 70% control efficiency for partial enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

Open (uncontrolled)

Multiply the maximum tons of coke handled per year for the emergency coke pile (250,000 tons) times the 0.00061 pound per ton particulate emission factor and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) and Table 13.2.4-1, dated 1/95.

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

g) Miscellaneous Requirements

(1) None.

3. F003, Coal handling processing and transfer

Operations, Property and/or Equipment Description:

Coal Handling Processing and Transfer

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 07-00511 issued 11/10/2008)	Fugitive particulate matter (PM) emissions shall not exceed 5.3 tons per year. Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)b through b)(2)d) The requirements of this rule also include compliance with 40 CFR Part 52.21, 40 CFR Part 60, Subpart Y and OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Fugitive particulate matter emissions with a diameter less than or equal to 10 microns (PM_{10}) shall not exceed 2.56 tons per year as a rolling, 12-month summation.
c.	40 CFR Part 60, Subpart Y	There shall not be discharged to the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system

		processing coal, fugitive dust which exhibit 20% opacity or greater.

(2) Additional Terms and Conditions

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

coal unloading via rail car bottom dumping;
coal conveying via belt conveyor;
coal transfer points via belt conveyor to belt conveyor; and
coal transfer points associated with new coal bin (4).

b. The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)	control measure(s)
rail car bottom dumping	enclosure and wet suppression
belt conveyors and transfer points	enclosure and wet suppression (15)
(21 belt conveyor to belt conveyor) and coal crushing	none (6)

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that the use of the control measure(s) is unnecessary.

d. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

c) Operational Restrictions

(1) The maximum annual wet coal usage rate for this emissions unit shall not exceed 1,752,000 tons based upon a rolling, 12-month summation of the wet coal usage rates. This emissions 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 production rate, upon issuance of this permit.

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

d) Monitoring and/or Recordkeeping Requirements

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

a. the wet coal usage rate for each month; and

b. the rolling, 12-month summation of the wet coal usage rates.

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

(2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s)	minimum inspection frequency
Battery #A oven coal conveyors	daily
Battery #B oven coal conveyors	daily
Battery #C oven coal conveyors	daily
Battery #D oven coal conveyors	daily

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

(3) The above-mentioned inspections shall be performed during representative, normal operating conditions.

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

(4) The permittee may, upon receipt of written approval from the Portsmouth Local Air Agency, modify the above-mentioned inspection frequencies if operating experience indicated that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

(5) 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 dates the control measure(s) was (were) implemented; and

d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

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

e) Reporting Requirements

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

a. each day during which an inspection was not performed by the required frequency; and

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

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

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

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

f) Testing Requirements

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

a. Emissions Limitation

Fugitive PM emissions shall not exceed 5.3 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. coal railcar unloading:

Multiply the maximum tons of coal unloaded per year times the 0.001 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for wet suppression and enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. coal transfer points with enclosure and wet suppression:

Multiply the maximum tons of coal handled per year times 15, the number of transfer points, times the 0.001 pound per ton emission factor, times 0.05, assuming a 95% control efficiency for enclosed transfer points and wet suppression, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated

1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iii. uncontrolled coal transfer points:

Multiply the maximum tons of coal handled per year times 6, the number of transfer points, times the 0.001 pound per ton emission factor and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated 1/95.

iv. coal screening/crushing with enclosure and wet suppression:

Multiply the maximum tons of coal handled per year times 1, the number of transfer points, times the 0.16 pound per ton emission factor times 0.01, assuming a 99% control efficiency for enclosed transfer points and wet suppression, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-40, Coal Processing Section, Table 1. The control efficiency was obtained from AP-40 and Ohio RACM.

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(3).

c. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 2.56 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by calculating the sum of the following:

i. coal railcar unloading

Multiply the maximum tons of coal unloaded per month times the 0.00047 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for wet suppression and enclosure, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. coal transfer points with enclosure and wet suppression

Multiply the maximum tons of coal handled per month times 15, the number of controlled transfer points, times the 0.00047 pound per ton emission factor, times 0.05, assuming a 95% control efficiency for enclosed transfer points and wet suppression, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iii. uncontrolled coal transfer points

Multiply the maximum tons of coal handled per month times 6, the number of uncontrolled transfer points, times the 0.00047 pound per ton emission factor, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1) dated 1/95.

iv. coal sizing with enclosure and wet suppression:

Multiply the maximum tons of coal handled per year times 1, the number of transfer points, times the 0.08 pound per ton emission factor, times 0.01, assuming a 99% control efficiency for enclosed transfer points and wet suppression, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-40, Coal Processing Section, Table 1. The control efficiency was obtained from AP-40 and Ohio RACM.

d. Emission Limitation:

There shall not be discharged to the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, fugitive dust which exhibit 20% opacity or greater.

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

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

g) Miscellaneous Requirements

(1) None.

4. F004, Coke and breeze handling and processing

Operations, Property and/or Equipment Description:

Coke and breeze handling and processing

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 P0106016 issued 02/19/2015)	Emissions of particulate matter (PM) and particulate matter with a diameter less than or equal to 10 microns (PM_{10}) from the crushing/screening baghouse shall not exceed 3.09 pounds per hour. Fugitive PM emissions shall not exceed 4.88 tons per year. Visible emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average. The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21 and OAC rules 3745-17-07 and 3745-31-10 through 20.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-11	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Particulate emissions from the crushing/screening baghouse shall not

		exceed 0.008 grain per dry standard cubic foot of exhaust gases. Particulate emissions from the crushing/screening baghouse shall not exceed 13.53 tons per year PM/PM_{10} as a rolling, 12-month summation. Fugitive PM_{10} emissions shall not exceed 2.30 tons per year as a rolling, 12-month summation

(2) Additional Terms and Conditions

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

coke loading of railcars and trucks
coke conveying via belt conveyor
coke transfer points (belt conveyor to belt conveyor and crusher to belt conveyor)
coke unloading of trucks

b. The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)	control measure(s)
coke loading of railcars	partial enclosure
coke conveying via belt conveyors (belts below grade uncovered)	partial enclosure
coke transfer points (belt conveyor to belt conveyor and crusher to belt conveyor)	partial enclosure

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

c. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that the use of the control measure(s) is unnecessary.

d. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements OAC rule 3745-31-05.

c) Operational Restrictions

(1) The pressure drop across the coke crushing/screening baghouse shall be maintained within the range of 3 to 12 inches of water, while the emissions unit is in operation.

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

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the coke crushing/screening baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the coke crushing/screening baghouse on a once per shift basis.

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

(2) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies

material handling operation(s)	minimum inspection frequency
coke loading of railcars and trucks	daily
coke conveying via belt conveyors	daily
coke transfer points (belt conveyor to belt conveyor and crusher to belt conveyor)	daily

coke unloading of trucksdaily

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

(3) The above-mentioned inspections shall be performed during representative, normal operating conditions.

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

(4) The permittee may, upon receipt of written approval from the Portsmouth Local Air Agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

(5) 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 dates the control measure(s) was (were) implemented; and

d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

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

e) Reporting Requirements

(1) The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the crushing/screening baghouse did not comply with the allowable range specified above.

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

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

a. each day during which an inspection was not performed by the required frequency; and

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

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

(3) These deviation (excursion) reports are due by the dates described in the Standard Terms and Conditions of this permit.

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

f) Testing Requirements

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

a. Emissions Limitation

Emissions of PM/PM_{10} from the crushing/screening baghouse shall not exceed 3.09 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

b. Emission Limitation:

Fugitive PM emissions shall not exceed 4.88 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. enclosed coke transfer points

Multiply the maximum tons of coke handled per year times 2, the number of enclosed transfer points that handle 100% of the total throughput, times the 0.00129 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosures, and divide by 2,000 pounds per ton.

Multiply the maximum tons of coke handled per year times 0.5, for transfer points that handle 50% of the total throughput, times 2, the number of enclosed transfer points, times the 0.00129 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosures, and divide by 2,000 pounds per ton.

The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. uncontrolled coke transfer points

Multiply the maximum tons of coke handled per year times 2, the number of uncontrolled transfer points that handle 100% of the total throughput, times the 0.00129 pound per ton emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95.

Multiply the maximum tons of coke handled per year times 4, the number of uncontrolled transfer points that handle 50% of the total throughput, times the 0.00129 pound per ton emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4 , Equation (1), dated 1/95.

Multiply the maximum tons of coke handled per year times 4, the number of uncontrolled transfer points that handle the emergency coke pile (250,000 tons) total throughput, times the 0.00129 pound per ton emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95.

iii. coke load-out

Multiply the maximum tons of coke handled per year times the 0.00129 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the partial enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iv. coke breeze silo / partially enclosed bunker

Multiply the maximum tons of coke breeze handled per year times 2, the number of transfer points (load-out and load-in), times the 0.00129 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosure, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80

c. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(3).

d. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Particulate emissions from the crushing/screening baghouse shall not exceed 0.008 grain per dry standard cubic foot of exhaust gases.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

f. Emission Limitation:

Particulate emissions from the crushing/screening baghouse shall not exceed 13.53 tons per year PM/PM_{10} as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be calculated by multiplying the PM/PM_{10} emission factor, in pounds per ton, times the maximum throughput rate of coke, in tons/hour, times the hours of operation, in hours/month, divided by 2,000 pounds per ton. The PM/PM_{10} emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

g. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 2.30 tons per year as a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by calculating the sum of the following:

i. enclosed coke transfer points

Multiply the maximum tons of coke handled per month times 2, the number of enclosed transfer points that handle 100% of the total throughput, times the 0.00061 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosures, and divide by 2,000 pounds per ton.

Multiply the maximum tons of coke handled per month times 0.5, for transfer points that handle 50% of the total throughput, times 2, the number of enclosed transfer points, times the 0.00061 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosures, and divide by 2,000 pounds per ton.

The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

ii. uncontrolled coke transfer points

Multiply the maximum tons of coke handled per month times 2, the number of uncontrolled transfer points that handle 100% of the total throughput, times the 0.00061 pound per ton emission factor, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95.

Multiply the maximum tons of coke handled per month times 4, the number of uncontrolled transfer points that handle 50% of the total throughput, times the 0.00061 pound per ton emission factor, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95.

Multiply the maximum tons of coke handled per year times 4, the number of uncontrolled transfer points that handle the emergency coke pile (250,000 tons) total throughput, times the 0.00061 pound per ton emission factor, and divide by 2,000 pounds per ton. The particulate emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95.

iii. coke load-out

Multiply the maximum tons of coke handled per month times the 0.00061 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the partial enclosure, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

iv. coke breeze silo/partially enclosed bunker

Multiply the maximum tons of coke breeze handled per month times 2, the number of transfer points (load-out and load-in), times the 0.00061 pound per ton emission factor, times 0.30, assuming a 70% control efficiency for the enclosure, and divide by 2,000 pounds per ton. The PM_{10} emission factor was calculated from AP-42 5th Edition, Section 13.2.4, Equation (1), dated 1/95. The control efficiency was obtained from RACM, Table 2.2.1-2, dated 10/80.

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

(2) Emission testing requirements

The permittee shall conduct, or have conducted, emission testing for the crushing/screening baghouse in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the PM emission limitations.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1 through 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

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

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

f. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

g) Miscellaneous Requirements

(1) None.

5. P001, Quench Tower AB

Operations, Property and/or Equipment Description:

Quench tower to quench the coke produced from AB battery.

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 P0122398 issued 05/17/2018)	Hazardous air pollutant (HAP) emissions shall not exceed 6.43 tons per year (excluding hydrogen chloride (HCl)) for emissions units P001, P002, P901 and P902, combined. The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21 and OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Particulate matter (PM) emissions shall not exceed 216.00 pounds per hour. PM emissions shall not exceed 197.10 tons per year as a rolling, 12-month summation. Particulate matter emissions with a diameter less than or equal to 10 microns (PM_{10}) shall not exceed 24.00 pounds per hour. PM_{10} emission shall not exceed 21.90 tons per year as a rolling, 12-month summation. PM_{10} emissions shall not exceed 0.05 pound per ton of coal charged. See b)(2)a.
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the quench tower shall not exceed 20% opacity

		as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-31-05(D)	See b)(2)b.
e.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280-7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 63.7282 and 63.7352, this emissions unit is a quench tower that is part of a coke oven battery (new affected source) subject to the requirements specified in this section.]	See b)(2)c.
f.	40 CFR 63.1 – 63.15 (40 CFR 63.7350)	Table 1 to Subpart CCCCC of 40 CFR Part 63 – Applicability of General Provisions to Subpart CCCCC shows which parts of the General Provisions in 40 CFR 63.1 – 63.15 apply.
g.	OAC rule 3745-114-01 Air Toxics	See B.4.

(2) Additional Terms and Conditions

a. Compliance with OAC rules 3745-31-05, 3745-31-15 and 40 CFR Part 52.21 shall be demonstrated by a TDS concentration limit of 1100 mg/L and the operation and maintenance of an interior baffle system with coverage of not less than 95% of the cross-sectional area of the tower.

b. Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P901, P902, P001 and P002, combined.

c. The concentration of total dissolved solids (TDS) in the water used for quenching shall not exceed 1,100 milligrams per liter (mg/L).

[Authority for term: 40 CFR 63.7295(a)(1)(i) or (ii)]

c) Operational Restrictions

(1) The permittee shall operate and maintain an interior baffle system for the quench tower. The interior baffle system shall be designed and maintained in accordance with good engineering practice and provide coverage of not less than 95% of the cross-sectional area of the tower.

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

(2) The permittee shall employ clean quench water with a TDS concentration of equal to or less than 1100 mg/l of water during the coke quenching operation.

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

(3) The permittee shall use acceptable makeup water for quenching.

Acceptable makeup water means surface water from a river, lake, or stream; water meeting drinking water standards; storm water runoff and production area clean up water; process wastewater treated to meet effluent limitations guidelines in 40 CFR Part 420; water from any of these sources that has been used only for non-contact cooling or in water seals.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1), 40 CFR 63.7295(a)(2) and 40 CFR 63.7352]

(4) The permittee shall equip each quench tower with baffles such that no more than 5 percent of the cross-sectional area of the tower may be uncovered or open to the sky.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(1)]

(5) The permittee shall wash the baffles in each quench tower once each day that the tower is used to quench coke, except as provided below:

a. the permittee is not required to wash the baffles in a quench tower if the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the day, you must resume daily washing according to the schedule in your operation and maintenance plan.

b. the permittee shall continuously record the ambient temperature on days that the baffles were not washed.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(2)]

(6) The permittee shall inspect each quench tower monthly for damaged or missing baffles and blockage.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(3)]

(7) The permittee shall initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(4)]

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

63.7295(a)(2)	Use of acceptable makeup water, as defined in 63.7352, as makeup water for quenching.
63.7295(b)	Quench tower design, operation, inspection, and maintenance requirements.
63.7295(c)	Requests for alternative work practice standards.
63.7300(a)	General duty to minimize emissions

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall wash the baffle system on a daily basis. The permittee shall inspect the baffle system on a monthly basis for damaged or missing baffles and blockage. The permittee shall imitate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1) and 40 CFR 63.7295(b)(2) through (4)]

(2) The permittee shall collect a weekly sample of the water employed in each quench tower which shall be analyzed for concentration of total dissolved solids.

In accordance with OAC rule 3745-17-03(B)(10)(c), the concentration of total dissolved solids in the quench water shall be determined according to Section 209(C), "Standard Methods for the Examination of Water and Wastewater," using a drying temperature between one hundred three and one hundred five degrees Celsius. Analyses shall be performed on grab samples of the quench water as applied to the coke. Samples shall be collected at a minimum of five days per week per quench tower and analyzed to report a weekly average concentration for each quench tower. Samples for each week must be analyzed either:

a. separately, with daily concentrations determined and averaged as a weekly average, or

b. as one composite sample, with equal volumes of each day's sample combined to form the composite sample.

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

(3) The permittee shall conduct weekly visible emission readings of the quench tower emissions from this emissions unit and shall maintain records of the readings. The visible emission readings shall be performed by certified readers in accordance with procedures contained in 40 CFR Part 60, Appendix A, Method 9, and OAC rule 3745-17-03(B)(1), with the exception that observations shall be conducted for a period of at least 12 consecutive minutes. If visible emissions exceed the allowable limitations specified in this permit for this emissions unit, the permittee shall document any corrective actions taken to eliminate the exceedance(s).

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

(4) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7333(h)	Continuous compliance demonstration requirements for TDS content
63.7334(e)	Continuous compliance demonstration requirements for work practice standards (baffles and makeup water)
63.7342(a) and (d)	Required overall records to be maintained
63.7343(a)-(c)	Format and retention of records

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify (1) each day when the baffles were not washed as required and (2) each repair to the baffle system that was not completed as soon as practicable.

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

(2) The permittee shall submit deviation (excursion) reports that identify all periods of time during which the concentration of TDS of the quench water did not comply with the TDS requirements specified above.

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

(3) The permittee shall submit deviation (excursion) reports that identify all exceedances of the 0.41 ton per year as a rolling, 12-month summation lead emission limitation.

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

(4) The deviation (excursion) reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

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

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

all days during which visible particulate emissions from the quench tower serving this emissions unit exceeded the allowable emission limitation specified in b)(1)c; and

a. any corrective actions taken to minimize or eliminate the visible particulate emissions from the quench tower.

These reports shall be submitted to the Portsmouth Local Air Agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: OAC rules 3745-77-07(C)(1) and OAC rule 3745-17-07(A))

(6) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7336	Deviation reporting
63.7340(a)	Overall notification reporting requirements
63.7340(c)	Initial notification reports
63.7340(e)	Notification of compliance status
63.7341(a)	Compliance report due dates
63.7341(c)	Compliance report contents
63.7341(e)	Title V monitoring report allowance
63.7341(f)	Electronic reporting of compliance reports
63.7341(g)	Electronic reporting of performance tests
63.7341(h)	Confidential Business Information notice

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

f) Testing Requirements

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

a. Emissions Limitation

HAP emissions shall not exceed 6.43 tons per year (excluding HCl) for emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. Waste Gas Stack:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Final AP-42 Section 12.2 dated May, 2008] by the maximum annual coal charge rate, and then dividing by 2000 pounds per ton.

ii. Pushing Stack:

Compliance shall be determined by multiplying the emission factor of 0.00024 pound of total combined HAPs per wet ton of coal charged, times the emission factor of each of the following: 0.00021 pound of Benzene Soluble Compounds

(BSO) per wet ton of coal charged, 0.000012 pound of Arsenic per wet ton of coal charged, 0.000015 pound of lead per wet ton of coal charged, and 0.0000021 pound of manganese per wet ton of coal charged, (emission factors from October, 1989 Jewell stack test) times the wet tons of coal charged per year, and then dividing by 2000 pounds per ton.

iii. Charging Baghouse:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton, times the maximum tons of coal charged per year, and dividing by 2,000 pounds per ton. The HAPs emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

iv. Quench Towers:

Compliance shall be determined by multiplying the summation of the HAP emission factor, in pounds per ton, times the wet tons of coal charged per year, and then dividing by 2000 pounds per ton. The HAPs emission factor shall be calculated from the results of the most recent quench water analysis which demonstrated compliance.

v. Bypass Vent Stacks:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] times the tons of coal charged per day, times an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, and then dividing by 2,000 pounds per ton.

b. Emission Limitation:

PM_{10} emissions shall not exceed 0.05 pound per ton of coal employed.

Applicable Compliance Method:

Compliance shall be demonstrated by compliance with the TDS concentration limit of 1100 mg/L and baffles which provide coverage of not less than 95% of the cross-sectional area of the tower. The PM_{10} emission limitation was calculated from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

c. Emission Limitation:

PM emissions shall not exceed 216.00 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.450 pound per ton times the maximum wet tons of coal charged per hour. The particulate emission

factor was determined based on the following equation from Ed Wojociechowski, U. S. EPA, Region 5:

y = 0.000115x + 0.323

where:

y = pounds of PM per wet ton of coal; and
x = total dissolved solids (TDS) concentration of quench water (mg/L).

d. Emission Limitation:

PM_{10} emissions shall not exceed 24.00 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.05 pound of PM_{10} per wet ton of coal charged times the maximum wet tons of coal charged per hour. The PM_{10} emission factor was obtained from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

e. Emission Limitation:

PM emissions shall not exceed 197.10 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.450 pound per ton times the maximum wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The particulate emission factor was determined based on the following equation from Ed Wojociechowski, U. S. EPA, Region 5:

y = 0.000115x + 0.323

where:

y = pounds of PM per wet ton of coal; and
x = total dissolved solids concentration of quench water (mg/L).

f. Emission Limitation:

PM_{10} emissions shall not exceed 21.90 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM_{10} emission factor of 0.05 pound per ton of coal

charged times the tons of coal charged per month, and then dividing by 2,000 pounds per ton. The PM_{10} emission factor was obtained from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

g. Emission Limitation:

Visible particulate emissions from the quench tower shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

h. Emission Limitation:

The concentration of TDS in the water used for quenching shall not exceed 1,100 mg/L.

Applicable Compliance Method:

Compliance shall be demonstrated by the requirements specified in d)(1) and d)(2) and the requirements specified in OAC rule 3745-17-03(B)(10)(c). In accordance with 40 CFR 63.7325(a), compliance with the TDS limitation shall be demonstrated using the following procedures:

i. Collect the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.

ii. Determine the TDS concentration of the sample using Method 160.1 in 40 CFR Part 136.3 (see residue - filterable), except that you must dry the total filterable residue at 103 to 105C (degrees Centigrade) instead of 180C.

i. Emission Limitation:

Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P901, P902, P001 and P002, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. waste gas stack

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

ii. charging

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor of 0.0000001 pound per ton times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July, 2001.

iii. pushing

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

iv. quench towers

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent water analysis which demonstrated compliance.

v. By-Pass Vent Stacks:

Compliance shall be demonstrated by multiplying the lead pound per ton emission factor [Table 12.2-20 of Draft AP-42 Section 12.2 dated July 2001] by the tons of coal charged per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton.

[Authority for Term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC]

(2) The permittee shall comply with the applicable performance testing and compliance requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7310(a)	Compliance at all times
63.7320(b) 63.7326(c)	Initial performance tests and compliance demonstration for TDS limit

63.7320(c) 63.7327(e) and (f) 63.7328(a) and (d)	Initial compliance demonstration for work practice standards and operation and maintenance requirements
63.7325(a)	Test methods and procedures for TDS limitation
63.7334(e)	Continuous compliance demonstration for work practice standards

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

g) Miscellaneous Requirements

(1) None.

6. P002, Quench Tower CD

Operations, Property and/or Equipment Description:

Quench Tower for A and B Batteries

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 P0122398 issued 05/17/2018)	Hazardous air pollutant (HAP) emissions shall not exceed 6.43 tons per year (excluding hydrogen chloride (HCl)) for emissions units P001, P002, P901 and P902, combined. The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21 and OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Particulate matter (PM) emissions shall not exceed 216.00 pounds per hour. PM emissions shall not exceed 197.10 tons per year as a rolling, 12-month summation. Particulate matter emissions with a diameter less than or equal to 10 microns (PM_{10}) shall not exceed 24.00 pounds per hour. PM_{10} emissions shall not exceed 21.90 tons per year as a rolling, 12-month summation. PM_{10} emissions shall not exceed 0.05 pound per ton of coal charged. See b)(2)a.
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the quench tower shall not exceed 20% opacity

		as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-31-05(D)	See b)(2)b.
e.	40 CFR Part 63, Subpart CCCCC	See b)(2)c.
f.	40 CFR 63.1 – 63.15 (40 CFR 63.7350)	Table 1 to Subpart CCCCC of 40 CFR Part 63 – Applicability of General Provisions to Subpart CCCCC shows which parts of the General Provisions in 40 CFR 63.1 – 63.15 apply.
g.	OAC rule 3745-114-01	See B.4.

(2) Additional Terms and Conditions

a. Compliance with OAC rules 3745-31-05, 3745-31-15 and 40 CFR Part 52.21 shall be demonstrated by a TDS concentration limit of 1100 mg/L and the operation and maintenance of an interior baffle system with coverage of not less than 95% of the cross-sectional area of the tower.

b. Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P901, P902, P001 and P002, combined.

c. The concentration of total dissolved solids (TDS) in the water used for quenching shall not exceed 1,100 milligrams per liter (mg/L).

[Authority for term: 40 CFR 63.7295(a)(1)(i) or (ii)]

c) Operational Restrictions

(1) The permittee shall operate and maintain an interior baffle system for the quench tower. The interior baffle system shall be designed and maintained in accordance with good engineering practice and provide coverage of not less than 95% of the cross-sectional area of the tower.

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

(2) The permittee shall employ clean quench water with a TDS concentration of equal to or less than 1100 mg/l of water during the coke quenching operation.

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

(3) The permittee shall use acceptable makeup water for quenching.

Acceptable makeup water means surface water from a river, lake, or stream; water meeting drinking water standards; storm water runoff and production area clean up water; process wastewater treated to meet effluent limitations guidelines in 40 CFR Part 420; water from any of these sources that has been used only for non-contact cooling or in water seals.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1), 40 CFR 63.7295(a)(2) and 40 CFR 63.7352]

(4) The permittee shall equip each quench tower with baffles such that no more than 5 percent of the cross-sectional area of the tower may be uncovered or open to the sky.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(1)]

(5) The permittee shall wash the baffles in each quench tower once each day that the tower is used to quench coke, except as provided below:

a. The permittee is not required to wash the baffles in a quench tower if the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the day, you must resume daily washing according to the schedule in your operation and maintenance plan.

b. The permittee shall continuously record the ambient temperature on days that the baffles were not washed.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(2)]

(6) The permittee shall inspect each quench tower monthly for damaged or missing baffles and blockage.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(3)]

(7) The permittee shall initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR 63.7295(b)(4)]

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

63.7295(a)(2)	Use of acceptable makeup water, as defined in 63.7352, as makeup water for quenching.
63.7295(b)	Quench tower design, operation, inspection, and maintenance requirements.
63.7295(c)	Requests for alternative work practice standards.
63.7300(a)	General duty to minimize emissions

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall wash the baffle system on a daily basis. The permittee shall inspect the baffle system on a monthly basis for damaged or missing baffles and blockage. The permittee

shall initiate repair or replacement of damaged or missing baffles within 30 days and complete as soon as practicable.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1) and 40 CFR 63.7295(b)(2) through (4)]

(2) The permittee shall collect a weekly sample of the water employed in each quench tower which shall be analyzed for concentration of total dissolved solids.

In accordance with OAC rule 3745-17-03(B)(10)(c), the concentration of total dissolved solids in the quench water shall be determined according to Section 209(C), "Standard Methods for the Examination of Water and Wastewater," using a drying temperature between one hundred three and one hundred five degrees Celsius. Analyses shall be performed on grab samples of the quench water as applied to the coke. Samples shall be collected at a minimum of five days per week per quench tower and analyzed to report a weekly average concentration for each quench tower. Samples for each week must be analyzed either:

a. separately, with daily concentrations determined and averaged as a weekly average, or

b. as one composite sample, with equal volumes of each day's sample combined to form the composite sample.

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

(3) The permittee shall conduct weekly visible emission readings of the quench tower emissions from this emissions unit and shall maintain records of the readings. The visible emission readings shall be performed by certified readers in accordance with procedures contained in 40 CFR Part 60, Appendix A, Method 9, and OAC rule 3745-17-03(B)(1), with the exception that observations shall be conducted for a period of at least 12 consecutive minutes. If visible emissions exceed the allowable limitations specified in this permit for this emissions unit, the permittee shall document any corrective actions taken to eliminate the exceedance(s).

(Authority for term: OAC rules 3745-77-07(C)(1) and OAC rule 3745-17-07(A))

(4) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7333(h)	Continuous compliance demonstration requirements for TDS content
63.7334(e)	Continuous compliance demonstration requirements for work practice standards (baffles and makeup water)
63.7342(a) and (d)	Required overall records to be maintained
63.7343(a)-(c)	Format and retention of records

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify (1) each day when the baffles were not washed as required and (2) each repair to the baffle system that was not completed as soon as practicable.

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

(2) The permittee shall submit deviation (excursion) reports that identify all periods of time during which the concentration of TDS of the quench water did not comply with the TDS requirements specified above.

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

(3) The permittee shall submit deviation (excursion) reports that identify all exceedances of the 0.41 ton per year as a rolling, 12-month summation lead emission limitation.

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

(4) The deviation (excursion) reports shall be submitted in accordance with the Standard Terms and Conditions of this permit

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

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

a. all days during which visible particulate emissions from the quench tower serving this emissions unit exceeded the allowable emission limitation specified in b)(1)c; and

b. any corrective actions taken to minimize or eliminate the visible particulate emissions from the quench tower.

These reports shall be submitted to the Portsmouth Local Air Agency by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

(6) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7336	Deviation reporting
63.7340(a)	Overall notification reporting requirements
63.7340(c)	Initial notification reports
63.7340(e)	Notification of compliance status
63.7341(a)	Compliance report due dates

63.7341(c)	Compliance report contents
63.7341(e)	Title V monitoring report allowance
63.7341(f)	Electronic reporting of compliance reports
63.7341(g)	Electronic reporting of performance tests
63.7341(h)	Confidential Business Information notice

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

f) Testing Requirements

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

a. Emissions Limitation

HAP emissions shall not exceed 6.43 tons per year (excluding HCl) for emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. Waste Gas Stack:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Final AP-42 Section 12.2 dated May, 2008] times the maximum annual coal charge rate, and then dividing by 2000 pounds per ton.

ii. Pushing Stack:

Compliance shall be determined by multiplying the emission factor of 0.00024 pound of total combined HAPs per wet ton of coal charged times the emission factor of each of the following: 0.00021 pound of Benzene Soluble Compounds (BSO) per wet ton of coal charged, 0.000012 pound of Arsenic per wet ton of coal charged, 0.000015 pound of lead per wet ton of coal charged, and 0.0000021 pound of manganese per wet ton of coal charged, (emission factors from October, 1989 Jewell stack test), times the wet tons of coal charged per year, and then dividing by 2000 pounds per ton.

iii. Charging Baghouse:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton, times the maximum tons of coal charged per year, and then dividing by 2,000 pounds per ton. The HAPs emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July, 2001.

iv. Quench Towers:

Compliance shall be determined by multiplying the summation of the HAP emission factor, in pounds per ton, times the wet tons of coal charged per year, and then dividing by 2000 pounds per ton. The HAPs emission factor shall be calculated from the results of the most recent quench water analysis which demonstrated compliance.

v. Bypass Vent Stacks:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] times the tons of coal charged per day, times an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, and then dividing by 2,000 pounds per ton.

b. Emission Limitation:

PM_{10} emissions shall not exceed 0.05 pound per ton of coal employed.

Applicable Compliance Method:

Compliance shall be demonstrated by compliance with the TDS concentration limit of 1100 mg/L and baffles which provide coverage of not less than 95% of the cross sectional area of the tower. The PM_{10} emission limitation was calculated from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

c. Emission Limitation:

PM emissions shall not exceed 216.00 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.450 pound per ton times the maximum wet tons of coal charged per hour. The particulate emission factor was determined based on the following equation from Ed Wojociechowski, U. S. EPA, Region 5:

$y = 0.000115x + 0.323$

where:

y = pounds of PM per wet ton of coal; and
x = total dissolved solids (TDS) concentration of quench water (mg/L).

d. Emission Limitation:

PM_{10} emissions shall not exceed 24.00 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.05 pound of PM_{10} per wet ton of coal charged times the maximum wet tons of coal charged per hour. The PM_{10} emission factor was obtained from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

e. Emission Limitation:

PM emissions shall not exceed 197.10 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.450 pound per ton times the maximum wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The particulate emission factor was determined based on the following equation from Ed Wojociechowski, U. S. EPA, Region 5:

$y = 0.000115x + 0.323$

where:

y = pounds of PM per wet ton of coal; and
x = total dissolved solids concentration of quench water (mg/L).

f. Emission Limitation:

PM_{10} emissions shall not exceed 21.90 tons per year as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM_{10} emission factor of 0.05 pound per ton of coal charged times the tons of coal charged per month, and then dividing by 2,000 pounds per ton. The PM_{10} emission factor was obtained from AP-42 5th Edition, Section 12.2, Tables 12.2-2 and 12.2-4 (the PM emission factor for quenching with baffles and clean water is 0.54 pound of PM per ton of coal charged and 9.8% of PM is PM_{10}).

g. Emission Limitation:

Visible particulate emissions from the quench tower shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

h. Emission Limitation:

The concentration of TDS in the water used for quenching shall not exceed 1,100 mg/L.

Applicable Compliance Method:

Compliance shall be demonstrated by the requirements specified in d)(1) and d)(2) and the requirements specified in OAC rule 3745-17-03(B)(10)(c). In accordance with 63.7325(a), compliance with the TDS limitation shall be demonstrated using the following procedures:

Collect the quench water sample from a location that provides a representative sample of the quench water as applied to the coke (e.g., from the header that feeds water to the quench tower reservoirs). Conduct sampling under normal and representative operating conditions.

i. Determine the TDS concentration of the sample using Method 160.1 in 40 CFR Part 136.3 (see residue - filterable), except that you must dry the total filterable residue at 103 to 105C (degrees Centigrade) instead of 180C.

i. Emission Limitation:

Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P901, P902, P001 and P002, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. waste gas stack

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

ii. charging

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor of 0.0000001 pound per ton times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July, 2001.

iii. pushing

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

iv. quench towers

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, and then dividing by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent water analysis which demonstrated compliance.

v. By-Pass Vent Stacks:

Compliance shall be demonstrated by multiplying the lead pound per ton emission factor [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] by the tons of coal charged per day multiplied by an estimated 20% of total waste gas venting times 8 days of venting per year times the 10 vent stacks, divided by 2,000 pounds per ton.

[Authority for Term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC]

(2) The permittee shall comply with the applicable performance testing and compliance requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7310(a)	Compliance at all times
63.7320(b) 63.7326(c)	Initial performance tests and compliance demonstration for TDS limit
63.7320(c) 63.7327(e) and (f) 63.7328(a) and (d)	Initial compliance demonstration for work practice standards and operation and maintenance requirements
63.7325(a)	Test methods and procedures for TDS limitation
63.7334(e)	Continuous compliance demonstration for work practice standards

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

g) Miscellaneous Requirements

(1) None.

7. P014, SV001

Operations, Property and/or Equipment Description:

sky vent to release a portion of the steam generated in the heat recovery steam generators (HRSG's) associated with coke oven batteries A and B (OEPA EU ID: P901).

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) (PTI P0119427 issued 12/8/2015)	Volatile organic compound (VOC) emissions shall not exceed 1.92 tons per month, averaged over a 12-month, rolling period. See b)(2)a.

(2) Additional Terms and Conditions

a. The tons per month VOC emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and reporting to ensure compliance with this emission limitation.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

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

a. Emissions Limitation

VOC emissions shall not exceed 1.92 tons per month averaged over a 12-month, rolling period.

Applicable Compliance Method:

The tons per month emission limitation for this emissions unit was based on the potential to emit using the maximum steam production of 450,000 pounds per hour and the maximum annual water treatment additives (45,989 pounds chemical additives per year) necessary to condition the boiler feed water in order to maintain the performance of the heat recovery steam generating units.

[45,989 pounds chemical additives/yr) / 8,760 hrs/yr] x 1,000,000 / 450,000 max steam production/hr = 11.67 ppmw

11.67 ppmw/1,000,000 x 450,000 pounds steam emitted to atmosphere per hour x 8760 hrs/yr x ton/2000 pounds = 23.0 tons/yr x year/12 months= 1.92 tons/month

[Authority for Term: OAC rule 3745-77-07(C)(1), OAC rule 3704.03(T)]

g) Miscellaneous Requirements

(1) None.

8. P901, Waste Gas from Coking, Charging, & Pushing (AB Battery)

Operations, Property and/or Equipment Description:

Phase I: 60 oven nonrecovery coke battery (A battery) and 40 oven nonrecovery coke battery (B battery)

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
	waste gas from coking process with a lime spray dryer, baghouse, and staged combustion	
a.	OAC rule 3745-31-05(A)(3) (PTI P0133208 issued 11/18/2026)	Lead emissions shall not exceed 0.060 pound per hour from the waste gas stack. Hazardous air pollutant (HAP) (excluding HCl) emissions shall not exceed 0.0057 pound per ton of coal charged from the waste gas stack. Lead emissions shall not exceed 0.30 pound per hour from a single heat recovery steam generator (HRSG) bypass vent stack. HAP (excluding HCl) emissions shall not exceed 0.031 pound per ton of coal charged from a single HRSG bypass vent stack. See b)(2)i. Hydrogen chloride (HCl) emissions shall not exceed 0.10 pound HCl per ton of coal charged from the waste gas stack.

		HCl emissions shall not exceed 12.06 pounds per hour and 44.02 tons per year from the waste gas stack. HCl emissions shall not exceed 48.24 pounds per hour from a single HRSG bypass vent stack. HCl emissions shall not exceed 38.59 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. Visible particulate emissions from the waste gas stack shall not exceed 10% opacity as a 6-minute average. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average. No visible particulate emissions shall be permitted from the common battery tunnel or its associated piping. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Filterable particulate matter emissions (PM) and filterable particulate matter emissions less than 10 microns in diameter (PM_{10}) shall not exceed 17.14 pounds per hour from the waste gas stack. Filterable PM/PM_{10} emissions shall not exceed 75.09 tons per year as a rolling, 12-month summation from the waste gas stack. Sulfur dioxide (SO_2) emissions shall not exceed 192.0 pounds per hour as a 3-hour block average from the waste gas stack except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements).

		See b)(2)m. SO_2 emissions shall not exceed 700.80 tons per year (1.6 pounds of SO_2/wet ton of coal) as a rolling, 12-month summation from the waste gas stack. Nitrogen oxides (NO_x) emissions shall not exceed 120.0 pounds per hour from the waste gas stack. NO_x emissions shall not exceed 438.0 tons per year as a rolling, 12-month summation from the waste gas stack. Carbon monoxide (CO) emissions shall not exceed 21.81 pounds per hour from the waste gas stack. CO emissions shall not exceed 95.54 tons per year as a rolling, 12-month summation from the waste gas stack. Volatile organic compound (VOC) emissions shall not exceed 4.67 pounds per hour from the waste gas stack. VOC emissions shall not exceed 20.47 tons per year as a rolling, 12-month summation from the waste gas stack. PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack. PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. PM/PM_{10} (filterable and condensable) emissions shall not exceed 28.8 tons per 24

		months from HRSG bypass vent stacks 1 through 5 and main stack bypass venting combined for emissions unit P901 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021. SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack. For any bypass venting incident lasting 48 consecutive hours or longer, SO_2 emissions shall not exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack. SO_2 emissions shall not exceed 384.0 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. SO_2 emissions shall not exceed 2,100 pounds per hour, as a 3-hour block average, from main stack bypass venting. SO_2 emissions shall not exceed 1,615 pounds per hour from main stack bypass venting for any bypass venting incident lasting 48 consecutive hours or longer, as a rolling 48-hour average, for each bypass venting incident. SO_2 emissions shall not exceed 260.4 tons per 24 months from HRSG bypass vent stacks 1 through 5 and main stack bypass venting combined for emissions unit P901 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021.

		NO_x emissions shall not exceed 24.0 pounds per hour from a single HRSG bypass vent stack. NO_x emissions shall not exceed 19.20 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. CO emissions shall not exceed 4.36 pounds per hour from a single HRSG bypass vent stack. CO emissions shall not exceed 4.19 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. VOC emissions shall not exceed 0.93 pound per hour from a single HRSG bypass vent stack. VOC emissions shall not exceed 0.90 ton per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. Filterable particulate emissions from the lime spray dryer baghouse exhaust shall not exceed 0.008 gr/dscf of exhaust gases. NO_x emissions shall not exceed 1 pound per ton of coal charged from the waste gas stack. CO emissions shall not exceed 20 ppm from the waste gas stack. VOC emissions shall not exceed 10 ppm from the waste gas stack. See b)(2)a.
c.	OAC rule 3745-17-07(A)(1)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

d.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(E)(2)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-31-05(D)	See b)(2)c.
g.	40 CFR Part 63, Subpart L (40 CFR 63.300-313) *National Emission Standards for Coke Oven Batteries* [In accordance with 40 CFR 63.300(b) and 64.301, this emissions unit is a greenfield nonrecovery coke oven battery subject to the emission limitations/control measures specified in this section.]	See b)(2)d, b)(2)e and b)(2)f.
h.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280 -7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	PM emissions from the waste gas stack shall not exceed 0.0049 gr/dscf at 10% oxygen per 40 CFR 63.7297(a). * Mercury emissions from the waste gas stack shall not exceed 3.0E-06 gr/dscf at 10% oxygen per 40 CFR 63.7297(b). * Total Acid Gases emissions from the waste gas stack shall not exceed 0.049 gr/dscf at 10% oxygen per 40 CFR 63.7297(c). * Total PAH emissions from the waste gas stack shall not exceed 4.8E-07 gr/dscf at 10% oxygen per 40 CFR 63.7297(d). *

		*in accordance with 63.7297, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026. See b)(2)j.
i.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280-7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	PM emissions from any HRSG Bypass Stack shall not exceed 0.032 gr/dscf at 10% oxygen. * Mercury emissions from any HRSG Bypass Stack shall not exceed 1.2E-05 gr/dscf at 10% oxygen. * Total Acid Gases emissions from any HRSG Bypass Stack shall not exceed 0.095 gr/dscf at 10% oxygen. * Total PAH emissions from any HRSG Bypass Stack shall not exceed 2.7E-06 gr/dscf at 10% oxygen. * Formaldehyde emissions from any HRSG Bypass Stack shall not exceed 0.0012 gr/dscf at 10% oxygen. * Visible particulate emissions from each bypass vent stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average. ** *in accordance with 63.7298, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026.

		**in accordance with 63.7299, the permittee shall comply with these emission limitations by the compliance date of 07/07/2025. See b)(2)j.
j.	OAC rule 3745-114-01 Air Toxics	See B.3.
	charging operations with baghouse with traveling hood	
k.	OAC rule 3745-31-05(A)(3)	Visible particulate emissions from the charging baghouse stack shall not exceed 10% opacity as a 6-minute average. Visible particulate emissions of fugitive dust from charging operations shall not exceed 20% opacity as an average of five consecutive charges. The requirements of this rule also include compliance with the requirements of 40 CFR Part 52.21 and OAC rules 3745-31-10 through 20.
l.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Filterable PM/PM_{10} emissions shall not exceed 0.0081 pound per ton of dry coal charged from the charging baghouse. Filterable PM/PM_{10} emissions shall not exceed 3.3 tons per year as a rolling, 12-month summation from the charging baghouse. Fugitive PM emissions shall not exceed 3.89 pounds per hour from charging. Fugitive PM shall not exceed 3.55 tons per year from charging. Fugitive PM_{10} emissions shall not exceed 1.17 pounds per hour from charging. Fugitive PM_{10} emissions shall not exceed 1.06 tons per year as a rolling, 12-month summation from charging.

		SO_2 emissions shall not exceed 0.14 pound per hour from the charging baghouse. SO_2 emissions shall not exceed 0.13 ton per year as a rolling, 12-month summation from the charging baghouse. CO emissions shall not exceed 1.34 pounds per hour from the charging baghouse. CO emissions shall not exceed 1.23 tons per year as a rolling, 12-month summation from the charging baghouse. VOC emissions shall not exceed 0.96 pound per hour from the charging baghouse. VOC emissions shall not exceed 0.88 ton per year as a rolling, 12-month summation from the charging baghouse. See b)(2)a. SO_2 emissions shall not exceed 0.0003 pound per ton of coal charged from the charging baghouse. CO emissions shall not exceed 0.0028 pound per ton of coal charged from the charging baghouse. VOC emissions shall not exceed 0.0020 pound per ton of coal charged from the charging baghouse.
m.	OAC rule 3745-17-07(A)(1)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
n.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

o.	OAC rule 3745-31-05 (D)	See b)(2)c.
p.	40 CFR Part 63, Subpart L (40 CFR 63.300-313) National Emission Standards for Coke Oven Batteries [In accordance with 40 CFR 63.300(b) and 63.301, this emissions unit is a greenfield nonrecovery coke oven battery subject to the emission limitations/control measures specified in this section.]	PE emissions from the charging baghouse stack shall not exceed 0.0081 pound per ton (lb/ton) of dry coal charged as determined by the procedures in 40 CFR 63.309(k). For each day of operation, the permittee shall implement the work practices specified in 40 CFR 63.306(b)(6) and record the performance of the work practices as required in 40 CFR 63.306(b)(7). Except as provided in 40 CFR 63.304, the permittee shall observe the exhaust stack of each charging emissions control device at least once each day of operation during charging to determine if visible emissions are present and shall record the results of each daily observation or the reason why conditions did not permit a daily observation. If any visible emissions are observed, the permittee must follow the procedures specified in 40 CFR 63.303(d)(3). The permittee shall develop and implement written procedures for adjusting the oven uptake damper to maximize oven draft during charging and for monitoring the oven damper setting during each charge to ensure that the damper is full open. See b)(2)d. through b)(2)f.
q.	OAC rule 3745-114-01 Air Toxics	See B.3.
	pushing operations with flat push hot car (FPHC) vented to multiclone dust collector	
r.	OAC rule 3745-31-05(A)(3)	Visible particulate emissions of fugitive dust from the pushing operations shall not exceed 20% opacity as a 3-minute average.

		See b)(2)b. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.
s.	OAC rules 3745-31-10 through 20	Filterable PM/PM_{10} emissions shall not exceed 13.72 pounds per hour from the FPHC vented to the multiclone dust collector. Filterable PM/PM_{10} emissions shall not exceed 12.53 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector. SO_2 emissions shall not exceed 24 pounds per hour from the FPHC vented to the multiclone dust collector. SO_2 emissions shall not exceed 21.9 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector. NO_x emissions shall not exceed 7.68 pounds per hour from the FPHC vented to the multiclone dust collector. NO_x emissions shall not exceed 7.01 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector. CO emissions shall not exceed 36.96 pounds per hour from the FPHC vented to the multiclone dust collector. CO emissions shall not exceed 33.73 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

		VOC emissions shall not exceed 96.0 pounds per hour from the FPHC vented to the multiclone dust collector. VOC emissions shall not exceed 87.6 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector. Filterable particulate emissions shall not exceed 0.04 pound PM_{10}/ton of coke from the FPHC vented to the multiclone dust collector exhaust. See b)(2)a. SO_2 emissions shall not exceed 0.05 pound per ton of coal charged from the FPHC vented to the multiclone dust collector. NO_x emissions shall not exceed 0.016 pound per ton of coal charged from the FPHC vented to the multiclone dust collector. CO emissions shall not exceed 0.077 pound per ton of coal charged from the FPHC vented to the multiclone dust collector. VOC emissions shall not exceed 0.2 pound per ton of coal charged from the FPHC vented to the multiclone dust collector.
t.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280-7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	Particulate emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.04 lb of PE/ton of coke per 40 CFR 63.7290(a)(4). Mercury emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 8.9E-07 lb per ton of coke per 40 CFR 63.7290(b). *

		Total Acid Gas emissions the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.013 lb per ton of coke per 40 CFR 63.7290(c). * Hydrogen Cyanide emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.0015 lb per ton of coke per 40 CFR 63.7290(d). * Total Polycyclic Aromatic Hydrocarbons emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 4.0E-04 lb per ton of coke per 40 CFR 63.7290(e). * Maintain daily average fan motor amperes at or above minimum motor amperes established during the initial performance test per 40 CFR 63.7290(f)(3)(i) or maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test per 40 CFR 63.7290(f)(3)(ii). Maintain the daily average pressure drop of the multiclone at or below the minimum level established during the initial performance test per 40 CFR 63.7290(f)(4). *in accordance with 63.7290, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026. See b)(2)j.
u.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the FPHC vented to the multiclone dust collector stacks shall not exceed 20% opacity as a 6-

		minute average, except as provided by the rule.
v.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
w.	OAC rule 3745-31-05(D)	See b)(2)c.
x.	OAC rule 3745-114-01 Air Toxics	See B.3.
y.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See C.9.c)(1), C.9.d)(1) and C.9.d)(51) through (53).

(2) Additional Terms and Conditions

a. OAC rule 3745-31-15 requires the following best available control technologies:

i. The waste gas from coking shall be processed by the use of a lime spray dryer with a manufacturer's design control efficiency of 92% for SO_2 control except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements), staged combustion for NO_x control, combustion optimization for CO and VOC control, and a baghouse for PM control.

ii. The pushing operations shall employ a mobile hood with a multiclone dust collector for PM control and work practices for CO and VOC control.

iii. The charging operations shall employ a baghouse with a traveling hood for PM control.

b. The emissions control system for the pushing operation(s) shall maintain a minimum capture efficiency of 98%.

c. Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P001, P002, P901 and P902, combined.

d. Pursuant to 40 CFR 63.300, the emissions limitations set forth in this subpart shall apply at all times.

e. The coke oven emissions from the nonrecovery coke oven batteries shall not exceed 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); and

The permittee shall monitor and record, once per day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under a negative pressure.

f. For charging operations, the permittee shall install, operate and maintain an emission control system for the capture and collection of emissions in a manner consistent with

good air pollution control practices for minimizing emissions from the charging operation.

g. As required by 40 CFR 63.6(e)(1)(i), the permittee must always operate and maintain this affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

h. The permittee must prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing emissions from a new or existing coke oven battery. Each plan must address at a minimum the elements in paragraphs (i) and (ii) below.

i. Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). The operation and maintenance plan must also include requirements to repair any defect or deficiency in the capture system within 30 days after the date that the defect or deficiency is discovered.

ii. Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

i. Hazardous air pollutant (HAPs) emissions (excluding HCl) shall not exceed 6.43 tons per year for emissions units P001, P002, P901 and P902, combined.

j. When charging coal with a sulfur content greater than or equal to 1.3 weight percent sulfur, the permittee shall either:

i. adjust operating parameters of the lime spray dryer as needed to increase the control efficiency for SO_2 emissions to comply with the pound per hour and rolling, 12-month SO_2 emission limitations; or

ii. reduce production as needed to comply with the pound per hour and rolling, 12-month SO_2 emission limitations.

k. The permittee shall maintain a written quality assurance/quality control plan for the continuous SO_2 monitoring system, designed to ensure continuous valid and representative readings of SO_2 emissions in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO_2 monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60.13; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at frequencies required per 40 CFR Part 60.13.

l. The continuous emission monitoring system consists of all 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.

m. The pound per hour SO_2 emission limitation and minimum 92% SO_2 control efficiency requirement do not apply during maintenance of the lime spray dryer (e.g. atomizer replacement). This exemption may be used for no more than one 3-hr block average period per week.

n. The hourly and annual emission limits for PM/PM_{10} (filterable and condensable) established for the HRSG bypass vent stacks were developed using testing data from a similar facility. The permittee reserves the right to request an administrative permit modification to revise these permit limits based on site-specific emissions data obtained during any required performance test, if necessary.

c) Operational Restrictions

(1) The pressure drop across the waste gas exhaust baghouse shall be maintained within the range of 3 to 15 inches of water while the emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR Part 64]

(2) The pressure drop across each charging baghouse shall be maintained within the range of 3 to 12 inches of water while the emissions unit is in operation.

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

(3) The permittee shall operate and maintain common duct temperatures at a minimum of 1400 °F as established in the Work Practice Plan to ensure emission limits for the waste gas exhaust are not exceeded.

Natural gas usage up to 100 MMBTU/hr is allowed for gas sparging in the common tunnel and gas lancing in the coke ovens.

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

(4) The maximum hourly charging/pushing rate for this emissions unit shall not exceed 10 ovens per hour.

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

(5) The maximum daily wet coal usage rate for this emissions unit shall not exceed 2,400 wet tons coal, based on a rolling, 7-day average.

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

(6) The maximum annual wet coal usage rate for this emissions unit shall not exceed 876,000 tons, based upon a rolling, 12-month summation of the wet coal usage rates. This emissions unit is an existing emissions unit and therefore has existing records and does not need to be restricted on a monthly basis.

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

(7) Waste gas emissions shall not be vented to the HRSG bypass vent stacks for HRSG maintenance or ancillary equipment (e.g. vent stack lid) maintenance for more than 1,920 hours per rolling, 12-month period for vent stacks VS1 thru VS10 (emissions units P901 and P902, combined). There shall be no more than one HRSG bypass vent stack at either emissions unit P901 or P902 in use at any time.

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

(8) The permittee shall ensure that the common battery tunnel(s), oven exhaust ductwork, waste heat ductwork, heat recovery steam generators, ductwork from the heat recovery steam generators to the lime spray dryer, lime spray dryer, baghouse and fan capacity are designed and installed to handle peak gassing periods.

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

(9) It is recognized that soot formation can occur on the heat transfer surfaces of the heat recovery steam generators and reduce the heat transfer efficiency. The permittee shall implement maintenance procedures that allow for removal of soot from the heat transfer surfaces of the heat recovery steam generators without shutdown of the heat recovery steam generator(s). These maintenance procedures can include, but are not limited to, installation of soot-blowers on the heat recovery steam generators to allow for periodic cleaning of the heat transfer surfaces.

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

(10) The permittee shall comply with the applicable operational restrictions required under 40 CFR Part 63, Subpart L, including the following sections:

63.306(a)-(d)	Work practice plan requirements
63.303(b)(3), 63.306(b)(6), 63.306(b)(7)	Work practices for charging operations
63.303(c)	Work practices for any nonrecovery coke oven battery
63.303(d)(4)	Work practices for new nonrecovery coke oven batteries

(Authority for Term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart L)

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

63.7290(f)(3) and (4)	Multiclone pushing capture / control system operating limits for fan amps and daily average pressure drop
63.7293(a)-(b)	Work practices for fugitive pushing emissions: visually inspect each oven prior to pushing by opening the door damper and observing the bed of coke do not push the oven unless the visual inspection indicates there is no smoke in the open space above the coke bed and that there is an unobstructed view of the door on the opposite side of the oven
63.7300(a)	General duty to minimize emissions
63.7300(c)	Operation and maintenance plan for pushing
63.7323(c) and (e)	Site-specific operating limit procedures for pushing capture system(s)
63.7323(d) and (e)	Site-specific operating limit procedures for pushing multicyclone(s)

(Authority for Term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC)

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the waste gas baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual (s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1) and 40 CFR Part 64]

(2) The permittee shall properly operate and maintain equipment to monitor the pressure drop across each charging baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a once per shift basis.

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

(3) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the pushing multiclone dust collector while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

The hood and duct work collecting pushing emissions shall be visually examined monthly for areas potentially needing repair. When an inspection identifies an area needing repair, the permittee shall maintain records of the date the inspection, the dates of each attempt to repair, the repair methods of each attempt to repair, and the date of successful repair.

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

(4) The permittee shall maintain daily records of the coal usage rate, in wet tons, in this emissions unit.

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

(5) The permittee shall maintain hourly records of the charging/pushing rate, in number of charges/pushes per hour, for this emissions unit.

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

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

a. the wet coal usage rate for each month; and

b. the rolling, 12-month summation of the monthly wet coal usage rates.

c. the rolling, 12-month summation of the monthly PM, PM_{10}, $PM_{2.5}$, SO_2, CO, VOC, and NOx emissions;

d. the lead, HCl and HAP emission rates;

e. the rolling, 12-month summation of the monthly lead emissions, in tons, for emissions units P001, P002, P901 and P902 combined;

f. the HCl emissions, in tons, for emissions units P901 and P901 combined; and

g. the HAP (excluding HCl) emissions, in tons, for emissions units P001, P002, P901 and P902 combined.

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

(7) The permittee shall operate and maintain equipment to continuously monitor and record SO_2 emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO_2 monitoring system including, but not limited to:

a. emissions of SO_2 in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;

b. emissions of SO_2 in pounds per hour and in units of the applicable standard(s) in the appropriate averaging period;

c. results of quarterly cylinder gas audits;

d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;

e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

f. hours of operation of the emissions unit, continuous SO_2 monitoring system, and control equipment;

g. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous SO2 monitoring system;

h. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous SO_2 monitoring system; and

i. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (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: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F and 40 CFR Part 64]

(8) The permittee shall maintain on-site, the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous SO_2 monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6. The letter(s)/document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

(9) The permittee shall monitor and record the temperature of the common battery tunnel on a once per shift basis.

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

(10) The permittee shall monitor and record, once per day for each day of operation, the pressure in the common battery tunnel to ensure that the ovens are operated under a negative pressure.

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

(11) The permittee shall maintain records for each waste gas bypass event of the date and time each event began, an identification of the stack venting, and the duration in hours.

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

(12) The permittee shall collect monthly composite samples of the coal charged in this emissions unit. The permittee shall also collect a composite sample of the coal charged in this emissions unit each time the coal blend is changed. The individual samples for each monthly composite shall be collected from primary conveyor belt that feeds batteries A and B or other location mutually agreeable by the permittee and Ohio EPA. A sufficient number of individual samples shall be collected so that each composite sample is representative of the average quality of coal charged in this emissions unit during each calendar month. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent), mercury content (percent) and chlorine content (percent). The analytical methods for sulfur content, mercury content and chlorine content shall be: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; D6722-01 Standard Test Method for Total Mercury in Coal and Coal Combustion Residues by Direct Combustion Analysis; D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidation Hydrolysis Microcoulometry. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

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

(13) The permittee shall maintain monthly records of the results of the analyses for sulfur content, mercury content, and chlorine content of the coal charged.

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

(14) All bypass vent stacks shall be equipped with sensors that detect when the bypass stacks are open, or partially opened, either due to relieving system pressure or manual opening of the bypass vent stacks by the operator. These sensors shall be instrumented to the operator and an alarm sounded when there is stack gas flow to any of the bypass vent stacks. The permittee shall record and maintain daily records for each bypass vent stack the time periods that there was flow through the bypass vent stack(s).

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

(15) Ohio EPA reserves the right to require the permittee to install a continuous opacity monitoring system on the main stack if Method 9 readings indicate that visible emissions are at a level near the allowable visible emission limitation. If Ohio EPA determines that a continuous opacity monitoring system is needed to assure compliance with the visible emission limitation, the permittee shall install an opacity monitoring system on the main stack within 90 days of notification by Ohio EPA that an opacity monitoring system is required to be installed. Prior to installation of an opacity monitoring system, the permittee shall submit information detailing the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1 for approval by the Ohio EPA, Central Office.

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

(16) The permittee shall maintain monthly records of all the following information for all periods when waste gas emissions are vented to the HRSG bypass vent stacks:

a. the date, time, and duration of each bypass event;

b. the identification of each bypass vent stack in use;

c. the reason for the bypass event; and

d. the rolling, 12-month summation of the HRSG bypass vent stack usage rates per stack.

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

(17) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart L, including the following sections:

63.303 (d)(3), 63.309(m) if required	Daily visible emission monitoring requirements
63.309(j)	Weekly performance test requirements
63.309(l)	Subsequent performance test requirements
63.311(f)	Listing of records to be maintained
63.311(g)	Availability of records

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart L)

(18) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7299	HRSG bypass stack opacity reading requirements
63.7330(d), 63.7331(g), 63.7331(h), 63.7331(i)	Capture system monitoring requirements for pushing
63.7330(f), 63.7331(k)	Multicyclone monitoring requirements for pushing
63.7331(b)-(d)	Site-specific monitoring plan and continuous parametric monitoring system (CPMS) requirements

63.7332(a)-(b)	Continuous monitoring and data collection requirements
63.7333(d)	Continuous compliance demonstration requirements for capture system(s)
63.7333(h)	Continuous compliance demonstration requirements for multicyclone(s)
63.7334(c)	Continuous compliance demonstration requirements for work practice standards (inspections)
63.7335(b) and (d)	Continuous compliance demonstration requirements for operation and maintenance requirements
63.7342(a), (c), and (d)	Required overall records to be maintained
63.7343(a)-(c)	Format and retention of records

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

e) Reporting Requirements

(1) The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the waste gas baghouse did not comply with the allowable range specified above.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1) and 40 CFR Part 64.9(a)]

(2) The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either charging baghouse did not comply with the allowable range specified in above.

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

(3) The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the pushing multiclone dust collector did not comply with the allowable range specified above.

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

(4) The permittee shall submit semiannual written reports that (a) list all inspections that identified an area of the hood and duct work needing repair, and (b) a description of the repairs completed.

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

(5) The permittee shall submit deviation (excursion) reports that identify all exceedances of the daily wet coal usage rate limitation.

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

(6) The permittee shall submit deviation (excursion) reports that identify all exceedances of the hourly charging/pushing rate limitation.

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

(7) The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month wet coal usage rate limitation.

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

(8) These reports are due by the date described in Standard Terms and Conditions of the permit.

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

(9) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO_2 monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of SO_2 emissions in excess of any applicable limit specified in this permit, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer and model number of the continuous SO_2 and other associated monitors;

iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect the CEMS readings, and/or changes in the location of the CEMS sample probe;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedance during the calendar quarter, as specified above;

v. the total SO_2 emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the continuous SO_2 monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly cylinder gas audits;

ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s);

x. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO_2 monitor out-of-control and the compliant results following any corrective actions;

xi. the date, time, and duration of any/each malfunction** of the continuous SO_2 monitoring system, emissions unit, and/or control equipment;

xii. the date, time, and duration of any downtime** of the continuous SO_2 monitoring system and/or control equipment while the emissions unit was in operation; and

xiii. the reason (if known) and the corrective actions taken (if any) for each event in (b)(xi) and (xii).

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

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

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit; SO_2 monitoring system downtime attributed to main stack bypass events shall not be counted against the facility for enforcement purposes but must be reported.

[Authority for term: 40 CFR 60.7]

(10) The permittee shall submit common battery tunnel temperature deviation (excursion) reports that identify all periods of during which the temperature in the common battery tunnel did not comply with the allowable range specified above. These reports shall include the time of the temperature deviation, the duration of the exceedance and the corrective action taken.

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

(11) The permittee shall submit deviation (excursion) reports that identify all exceedances of the 0.41 ton per year lead emission limitation.

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

(12) The permittee shall submit semiannual written reports which identify the date, time, and duration of each waste gas bypass event.

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

(13) The deviation (excursion) reports shall be submitted in accordance with Part 1 - Standard Terms and Conditions of this permit.

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

(14) The permittee shall submit to the Portsmouth Local Air Agency quarterly common battery tunnel negative pressure deviation (excursion) reports that identify all periods of time during which there was not a negative pressure across each common battery tunnel. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(15) The permittee shall submit to the Portsmouth Local Air Agency quarterly deviation (excursion) reports that identify all periods during which visual inspections of the enclosed FPHC identified areas potentially needing repair to minimize visible emissions of fugitive dust. The report shall include the repair methods of each attempt to repair, and the date of successful repair. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(16) The permittee shall submit to the Portsmouth Local Air Agency quarterly reports concerning the quality and quantity of the coal coked in this emissions unit. These reports shall include the following information for the emissions unit for each month during the calendar quarter:

a. the total quantity of wet coal charged (tons);

b. the average mercury content (percent) of the coal charged;

c. the average chlorine content (percent) of the coal charged; and

d. the average sulfur content (weight percent) of the coal charged.

These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(17) The permittee shall submit to the Portsmouth Local Air Agency quarterly deviation (excursion) reports that identify all exceedances of the HRSG bypass vent stack usage limitations. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(18) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart L, including the following sections:

63.311(a)	Report submission
63.311(b)	Initial compliance certification requirements
63.311(c)	Notification requirements
63.311(d)	Semiannual compliance certification requirements
63.311(e)	Report requirement for venting of coke oven gas

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart L)

(19) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7299	HRSG bypass stack opacity reporting requirements
63.7336(a)	Deviation reporting
63.7340(a)	Overall notification reporting requirements
63.7340(c)	Initial notification reports
63.7340(d)	Notification of intent to test
63.7340(e)	Notification of compliance status
63.7341(a)	Compliance report due dates
63.7341(c)	Compliance report contents
63.7341(e)	Title V monitoring report allowance

63.7341(f)	Electronic reporting of compliance reports
63.7341(g)	Electronic reporting of performance tests
63.7341(h)	Confidential Business Information notice

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC)

f) Testing Requirements

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

a. Emissions Limitation

Lead emissions shall not exceed 0.060 pound per hour from the waste gas stack.

Applicable Compliance Method

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 12 or 29.

b. Emissions Limitation

HAPs (excluding HCl) emissions shall not exceed 0.0057 pound per ton of coal charged from the waste gas stack.

Applicable Compliance Method

The emission limitation was derived by the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] and HCC test data.

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

c. Emission Limitation:

Lead emissions shall not exceed 0.30 pound per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 12 or 29.

d. Emission Limitation:

HAPs (excluding HCl) emissions shall not exceed 0.031 pound per ton of coal charged from a single HRSG bypass vent stack.

Applicable Compliance Method:

The emissions limit was derived from calculating the summation of the individual HAP pound per ton emission factors obtained from the draft AP-42, Section 12.2, Table 12.2-20, dated July 2001 and Haverhill Coke Company (HCC) test data.

e. Emission Limitation:

HAPs emissions (excluding HCl) shall not exceed 6.43 tons per year for emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i through iv below:

i. Waste Gas Stack:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July 2001] by the maximum annual coal charge rate (assuming 95% removal of metals except lead and mercury) divided by 2000 pounds per ton.

ii. Pushing Stack:

Compliance shall be determined by multiplying the emission factor of 0.00024 pound total combined HAPs per wet ton of coal charged, multiplying the emission factor of each of the following: 0.00021 pound Benzene Soluble Compounds (BSO) per wet ton of coal charged, 0.000012 pound Arsenic per wet ton of coal charged, 0.000015 pound lead per wet ton of coal charged, and 0.0000021 pound manganese per wet ton of coal charged, (emission factors from October 1989 Jewell stack test) by the wet tons of coal charged per year, divided by 2000 pounds per ton.

iii. Charging Baghouse:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton, times the maximum tons of coal charged per tear, divided by 2,000 pounds per ton. The HAPs emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

iv. Quench Towers:

Compliance shall be determined by multiplying the summation of the HAP emission factor, in pounds per ton, times the wet tons of coal charged per year, and divide by 2000 pounds per ton. The HAPs emission factor shall be

calculated from the results of the most recent quench water analysis which demonstrated compliance.

v. Bypass Vent Stacks:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] by the times the tons of coal charged per day multiplied by an estimated 20% of total waste gas venting times 8 days of venting per year times the 10 vent stacks, divided by 2,000 pounds per ton.

f. Emission Limitation:

Visible particulate emissions from the waste gas stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

g. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(3).

h. Emission Limitation:

No visible particulate emissions shall be permitted from the common battery tunnel or its associated piping.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 22 and the procedures and methods required in OAC rule 3745-17-03(B)(4).

i. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 17.14 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

j. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 75.09 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM/PM_{10} emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The PM/PM_{10} emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

k. Emission Limitation:

SO_2 emissions shall not exceed 192.0 pounds per hour as a 3-hour block average from the waste gas stack except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements).

Applicable Compliance Method:

Ongoing compliance with the SO_2 emission limitations above, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

l. Emission Limitation:

SO_2 emissions shall not exceed 700.80 tons per year (1.6 pound of SO_2/wet ton of coal) as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance with the 12-month rolling emission limitation shall be demonstrated under the record keeping requirements in d)(6) by adding the current month's emissions to the emissions for the preceding eleven calendar months.

If required, compliance with the pound per ton emission rate for SO_2 shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Methods 1 through 4, and 6.

m. Emission Limitation:

NO_x emissions shall not exceed 120.0 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7E.

n. Emission Limitation:

NO_x emissions shall not exceed 438.0 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the NO_x emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The NO_x emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

o. Emission Limitation:

CO emissions shall not exceed 21.81 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

p. Emission Limitation:

CO emissions shall not exceed 95.54 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the CO emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

q. Emission Limitation:

VOC emissions shall not exceed 4.67 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

r. Emission Limitation:

VOC emissions shall not exceed 20.47 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the VOC emission factor, in pounds per ton of coal charged,

times the tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

s. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

t. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year from all HRSG bypass vent stacks combined from emissions units P901 and P902.

Applicable Compliance Method:

The annual emissions limit was determined by multiplying the hourly emissions limit from a single HRSG bypass vent stack times the number of allowable bypass hours (1,920), divided by 2,000 pounds per ton.

u. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 28.8 tons per 24 months from HRSG bypass vent stacks 1 through 5 and main stack bypass venting combined for emissions unit P901 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021.

Applicable Compliance Method:

The quantity of emissions at the bypass vent stacks during bypass venting shall be calculated using data from the most recent, representative stack test performed during bypass venting, using the following formula:

$$C_{BPS} = \sum_{i}^{BPS} D_i * P$$

where:

C_{BPS} = total mass of contaminant.

P = mass flow rate of contaminant, that is calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

D_i = duration, in hours, of bypass venting from individual bypass vent stack *i.*

BPS = the set of all bypass vent stacks open during Bypass Venting, where *i* equals each individual open bypass stack; during bypass venting through the FGD, *i* is all bypass stacks from which venting is occurring and/or would have occurred but for the bypass venting at the main stack.

i = individual bypass vent stack *i.*

v. Emission Limitation:

SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack. For any bypass venting incident lasting 48 hours or longer, SO_2 emissions shall not exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

w. Emission Limitation:

SO_2 emissions shall not exceed 384.0 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limit was derived by multiplying the SO_2 emission factor of 20 pounds per ton times the tons of coal charged of 2,400 tons per day multiplied by an estimated 20%

of total waste gas venting times 8 days of venting per year times the 10 vent stacks divided by 2,000 pounds per ton. The SO_2 emission factor was derived using a material balance based on data from a stack test at the Jewell Coal and Coke Company in Vansant, VA in 10/1989 and assuming a coal sulfur content of 1.3%.

x. Emission Limitation:

SO_2 emissions shall not exceed 260.4 tons per 24 months from HRSG bypass vent stacks 1 through 5 and main stack bypass venting combined for emissions units P901 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021.

Applicable Compliance Method:

The quantity of emissions at the bypass vent stacks during bypass venting shall be calculated using data from the most recent, representative stack test performed during bypass venting, using the following formula:

$$C_{BPS} = \sum_{i}^{BPS} D_i * P$$

where:

C_{BPS} = total mass of contaminant.

P = mass flow rate of contaminant, that is calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

D_i = duration, in hours, of bypass venting from individual bypass vent stack *i*.

BPS = the set of all bypass vent stacks open during bypass venting, where *i* equals each individual open bypass stack**;** during bypass venting though the FGD, *i* is all bypass stacks from which venting is occurring and/or would have occurred but for the bypass venting at the main stack.

i = individual bypass vent stack *i.*

y. Emission Limitation:

SO_2 emissions shall not exceed 2,100 pounds per hour, as a 3-hour block average, from main stack bypass venting.

SO_2 emissions shall not exceed 1,615 pounds per hour from main stack bypass venting for any bypass venting incident lasting 48 consecutive hours or longer, as a rolling 48-hour average, for each bypass venting incident.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online), and the number of bypass vent stacks from which venting would have occurred but for the bypass venting at the main stack. Gas flowrate from the main stack may be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

z. Emission Limitation:

NO_x emissions shall not exceed 24.0 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the NO_x emission factor of 1 pound per ton times the tons of coal charged per hour multiplied by an estimated 20% of total gas venting. The NO_x emission factor was obtained from an EPA stack test data at Jewell Coke Co. dated September 1992.

aa. Emission Limitation:

NO_x emissions shall not exceed 19.20 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limit was derived by multiplying the NO_x emission factor of 1 pound per ton times the tons of coal charged of 2,400 tons per day multiplied by an estimated 20% of total waste gas venting times 8 days of venting per year times the 10 vent stacks divided by 2,000 pounds per ton. The NO_x emission factor was obtained from a EPA stack test data at Jewell Coke Co. dated September 1992.

bb. Emission Limitation:

CO emissions shall not exceed 4.36 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor of 20 ppm, times 28, the molecular weight of CO, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack.

cc. Emission Limitation:

CO emissions shall not exceed 4.19 tons per year from all the HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor of 20 ppm, times 28, the molecular weight of CO, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack, times the total hours/year of all bypass events, divided by 2,000 pounds per ton.

dd. Emission Limitation:

VOC emissions shall not exceed 0.93 pound per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor of 10 ppm, times 12, the molecular weight of carbon, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack.

ee. Emission Limitation:

VOC emissions shall not exceed 0.90 ton per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor of 10 ppm, times 12, the molecular weight of carbon, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack, times the total hours/year of all bypass events, divided by 2,000 pounds per ton.

ff. Emission Limitation:

Filterable particulate emissions from the lime spray dryer baghouse exhaust shall not exceed 0.008 gr/dscf of exhaust gases.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

gg. Emission Limitation:

NO_x emissions shall not exceed 1 pound per ton of coal charged from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

hh. Emission Limitation:

CO emissions shall not exceed 20 ppm from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

ii. Emission Limitation:

VOC emissions shall not exceed 10 ppm from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4, 25 or 25A, as appropriate.

jj. Emission Limitation:

Fugitive PM emissions shall not exceed 3.89 pounds per hour from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged times the maximum tons of wet coal charged per hour times the capture factor of 0.3 (70% capture rate). The PM emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

kk. Emission Limitation:

Fugitive PM shall not exceed 3.55 tons per year from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged times the maximum tons of wet coal charged per year times the capture factor of 0.3 (70% capture rate), divided by 2,000 pounds per ton. The PM emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

ll. Emission Limitation:

Visible particulate emissions of fugitive dust from charging operations shall not exceed 20% opacity as an average of five consecutive charges.

Applicable Compliance Method:

The permittee shall conduct a performance test each week to demonstrate compliance with this opacity limit. The permittee shall conduct each performance test according to the procedures and requirements in paragraphs (i)(a) through (iii) below.

i. Using a certified observer, determine the average opacity of five consecutive charges per week for each charging emissions capture system if charges can be observed according to Method 9 (40 CFR Part 60, Appendix A), except as specified in paragraphs (a) and (b) below.

(a) Instead of the procedures in section 2.4 of Method 9 (40 CFR Part 60, Appendix A), record observations to the nearest 5 percent at 15-second intervals for at least five consecutive charges.

(b) Instead of the procedures in section 2.5 of Method 9 (40 CFR Part 60, Appendix A), determine and record the highest 3-minute block average opacity for each charge from the consecutive observations recorded at 15-second intervals.

ii. Opacity observations are to start when the door is removed for charging and end when the door is replaced.

iii. Using the observations recorded from each performance test, the certified observer shall compute and record the average of the five 3-minute block averages.

mm. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 0.0081 pound per ton of dry coal charged from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

nn. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 3.3 tons per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM emission factor, in pounds / ton dry coal, by the tons coal charged per month, divided by 2,000 pounds per ton. The PM emission factor was obtained from 40 CFR 63.303(d)(2), dated April 15, 2005.

oo. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 1.17 pounds per hour from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged, times the tons of wet coal charged per hour by the capture factor of 0.3 (70% capture rate) by 0.30 the fraction of TSP estimated to by PM_{10}. The emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

pp. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 1.06 tons per year as a rolling, 12-month summation from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.027 pound per ton of coal charged, times the tons of wet coal charged per month by the capture factor of 0.3 (70% capture rate) by 0.30 the fraction of TSP estimated to by PM_{10}, divided by 2,000 pounds per ton. The emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

qq. Emission Limitation:

SO_2 emissions shall not exceed 0.0003 pound per ton of coal charged and 0.14 pound per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 4 and 6C.

Compliance shall be demonstrated by multiplying the emission factor of 0.0003 pound per ton wet coal charged, times the tons of wet coal charged per hour. The SO_2 emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

rr. Emission Limitation:

SO_2 emissions shall not exceed 0.13 ton per year as a rolling, 12-month summation from charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0003 pound per ton wet coal charged, times the tons of wet coal charged per month, divided by 2,000 pounds per ton. The SO_2 emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

ss. Emission Limitation:

CO emissions shall not exceed 0.0028 pound per ton of coal charged and 1.34 pounds per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 4 and 10.

Compliance shall be demonstrated by multiplying the emission factor of 0.0028 pound per ton wet coal charged times the wet tons of coal charged per hour. The CO emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

tt. Emission Limitation:

CO emissions shall not exceed 1.23 tons per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0028 pound per ton wet coal charged, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

uu. Emission Limitation:

VOC emissions shall not exceed 0.0020 pound per ton of coal charged and 0.96 pound per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 4 and Method 25 or 25A.

Compliance shall be demonstrated by multiplying the emission factor of 0.0020 pound VOC per wet ton of coal charged, times the wet tons of coal charged per hour. The VOC emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

vv. Emission Limitation:

VOC emissions shall not exceed 0.88 ton per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0020 pound VOC per wet ton of coal charged, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

ww. Emission Limitation:

Visible particulate emissions from the charging baghouse stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

xx. Emission Limitation:

Visible particulate emissions of fugitive dust from the pushing operations shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(3).

yy. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 13.72 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emissions factor, in pounds per ton coke pushed, times the maximum tons of coke pushed per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

zz. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 12.53 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM/PM_{10} emission factor, in pound per ton coke, times the tons of coke pushed per month, divided by 2,000 pounds per ton. The PM/PM_{10} emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

aaa. Emission Limitation:

SO_2 emissions shall not exceed 24 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

bbb. Emission Limitation:

SO_2 emissions shall not exceed 21.9 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the SO_2 emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The SO_2 emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ccc. Emission Limitation:

NO_x emissions shall not exceed 7.68 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ddd. Emission Limitation:

NO_x emissions shall not exceed 7.01 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the NO_X emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The NO_X emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

eee. Emission Limitation:

CO emissions shall not exceed 36.96 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

fff. Emission Limitation:

CO emissions shall not exceed 33.73 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the CO emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ggg. Emission Limitation:

VOC emissions shall not exceed 96.0 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

hhh. Emission Limitation:

VOC emissions shall not exceed 87.6 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the VOC emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

iii. Emission Limitation:

Filterable particulate emissions shall not exceed 0.04 pound PM_{10} per ton of coke from the FPHC vented to the multiclone dust collector exhaust.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 5.

jjj. Emission Limitation:

SO_2 emissions shall not exceed 0.05 pound per ton of coal charged from the FPHC vented to the multiclone dust collector exhaust.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6.

kkk. Emission Limitation:

NO_x emissions shall not exceed 0.016 pound per ton of coal charged from the FPHC vented to the multiclone dust collector exhaust.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

lll. Emission Limitation:

CO emissions shall not exceed 0.077 pound per ton of coal charged from the FPHC vented to the multiclone dust collector exhaust.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

mmm. Emission Limitation:

VOC emissions shall not exceed 0.2 pound per ton of coal charged from the FPHC vented to the multiclone dust collector exhaust.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

nnn. Emission Limitation:

Visible particulate emissions from the FPHC vented to the multiclone dust collector stacks shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

ooo. Emission Limitation:

Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. waste gas stack

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

ii. charging

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor of 0.0000001 pound per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

iii. pushing

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

iv. quench towers

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent water analysis which demonstrated compliance.

v. bypass vent stacks:

Compliance shall be demonstrated by multiplying the lead pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] by the tons of coal charged per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton.

ppp. Emission Limitation:

The coke oven emissions from the nonrecovery coke oven batteries shall not exceed 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); or

The permittee shall monitor and record, once per day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under a negative pressure.

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring/record keeping requirements in section C.3.d)(10) of this permit.

qqq. Emission Limitation:

HCl emissions shall not exceed 0.10 pound per ton of coal charged and 12.06 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 26.

rrr. Emission Limitation:

HCl emissions shall not exceed 44.02 tons per year from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pound per ton of coal charged, times the tons coal charged per year, divided by 2,000 pounds per ton. The HCl emission factor shall be calculated from the most recent performance test which demonstrated compliance.

sss. Emission Limitation:

HCl emissions shall not exceed 48.24 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 26.

ttt. Emission Limitation:

HCl emissions shall not exceed 38.59 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limitation was derived by multiplying the HCl emission factor of 2.01 pounds per ton times the tons of coal charged per day, multiplied by an estimated 20% of total gas venting, times 8 days of venting, times the 10 vent stacks (emissions units P901 and P902, combined), divided by 2,000 pounds per ton. The HCl emission factor was obtained from stack test data at Haverhill Coke Company dated June 2005.

uuu. Emission Limitation:

PM emissions from the waste gas stack shall not exceed 0.0049E-04 gr/dscf at 10% oxygen per 40 CFR 63.7297(a).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

vvv. Emission Limitation:

Mercury emissions from the waste gas stack shall not exceed 3.0E-06 gr/dscf at 10% oxygen per 40 CFR 63.7297(b).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

www. Emission Limitations:

Total Acid Gases emissions from the waste gas stack shall not exceed 0.049 gr/dscf at 10% oxygen per 40 CFR 63.7297(c).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

xxx. Emission Limitations:

Total PAH emissions from the waste gas stack shall not exceed 4.8E-07 gr/dscf at 10% oxygen per 40 CFR 63.7297(d).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

yyy. Emission Limitation – HRSG Bypass Stacks:

PM emissions from any HRSG Bypass Stack shall not exceed 0.032 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

zzz. Emission Limitation – HRSG Bypass Stacks:

Mercury emissions from any HRSG Bypass Stack shall not exceed 1.2E-05 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

aaaa. Emission Limitation – HRSG Bypass Stacks:

Total Acid Gases emissions from any HRSG Bypass Stack shall not exceed 0.095 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

bbbb. Emission Limitation – HRSG Bypass Stacks:

Total PAH emissions from any HRSG Bypass Stack shall not exceed 2.7E-06 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

cccc. Emission Limitation – HRSG Bypass Stacks:

Formaldehyde emissions from any HRSG Bypass Stack shall not exceed 0.0012 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

dddd. Emission Limitation:

Mercury emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 8.9E-07 lb per ton of coke per 40 CFR 63.7290(b).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

eeee. Emission Limitation:

Total Acid Gas emissions the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.013 lb per ton of coke per 40 CFR 63.7290(c).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

ffff. Emission Limitation:

Hydrogen Cyanide emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.0015 lb per ton of coke per 40 CFR 63.7290(d).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

gggg. Emission Limitation:

Total Polycyclic Aromatic Hydrocarbons emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 4.0E-04 lb per ton of coke per 40 CFR 63.7290(e).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC

[Authority for term: 3745-77-07(C)(1) and 40 CFR Part 63, Subpart CCCCC]

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

a. The emission testing shall be conducted approximately 6 months after issuance of the permit (following the effective date for the Title V permit) and 2.5 years prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the following allowable emission limitations.

i. Waste gas stack – coking operations: Filterable PM/PM_{10}, SO_2, NO_x; and

ii. Multiclone stack – pushing operations: Filterable PM/PM_{10}.

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

Pollutant Method of 40 CFR Part 60, Appendix A

PMMethods 1 through 4 and 5

SO2Methods 1 through 4 and 6C

NOx Methods 1 through 4 and 7E

The PM rate is used as a surrogate for PM_{10} where PM_{10} emission factors are not available.

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

d. The following additional information shall be documented during all emission testing for PM, SO_2, NO_x and flow rate:

i. hourly wet coal charge rates, in tons/hr, and the number of charges per hour to allow a determination of an emission factor in pounds of pollutant per ton of coal processed;

ii. hourly coke push rates, in tons/hr, and the number of pushes per hour to allow a determination of an emission factor in pounds of pollutant per ton of coke produced;

iii. pressure drop readings approximately every 15 minutes during the test(s) for:

(a) the lime spray dryer baghouse when the main stack emissions are being tested; and

(b) each pushing multiclone when pushing emissions are being tested;

iv. lime spray dryer operating parameters when the main stack emissions are being tested; and

v. main stack baghouse cleaning cycle.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Portsmouth Local Air Agency.

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

g. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

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

a. The emission testing shall be conducted approximately within 2.5 years after permit issuance, except for the HRSG bypass vent stacks, which shall be completed once during each Title V term. The emission testing for the HRSG bypass vent stacks shall be conducted during a scheduled bypass of a heat recovery steam generator for purposes of the scheduled FGD inspection and maintenance. The HRSG bypass vent stack testing is only required on one of the ten (P901 and P902) bypass vent stacks.

b. The emission testing shall be conducted to demonstrate compliance with the following allowable limitations.

i. Waste gas stack – coking operations: CO, and HCl;

ii. Baghouse stack – coal charging operations: PM;

iii. HRSG bypass vent stacks: PM/PM_{10}, SO_2, and mercury; and

iv. Multiclone stack – pushing operations: SO_2, NO_x, CO and VOC (Tedlar bag sample transported to onsite CEM).

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

Pollutant Method of 40 CFR Part 60, Appendix A

PM Methods 1 through 4 and 5

CO Methods 1 through 4 and 10

SO2 Methods 1 through 4 and 6C

VOC Methods 1 through 4 and 25 or 25A

NOx Methods 1 through 4 and 7E

Mercury Methods 1 through 4 and 29

HCl Methods 1 through 4 and 26A

PM10 Methods 1 through 4 of 40 CFR Part 60, Appendix A; and

Methods 201 and 202 of 40 CFR Part 51, Appendix M.

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

d. The following additional information shall be documented during all emission testing for PM, SO_2, NO_x, CO, VOC, HCl, mercury and flow rate:

i. hourly wet coal charge rates, in tons/hr (and coal moisture), and the number of charges per hour to allow a determination of an emission factor in pounds of pollutant per ton of coal processed;

ii. hourly coke push rates, in tons/hr, and the number of pushes per hour to allow a determination of an emission factor in pounds of pollutant per ton of coke produced;

iii. pressure drop readings approximately every 15 minutes during the test(s) for:

(a) each charging baghouse when charging emissions are being tested; and

(b) the lime spray dryer baghouse when the main stack emissions are being tested.

iv. lime spray dryer operating parameters when the main stack emissions are being tested; and

v. main stack baghouse cleaning cycle.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Portsmouth Local Air Agency.

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

g. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

g) Miscellaneous Requirements

(1) None.

9. P902, Waste Gas from Coking, Charging, & Pushing (CD Battery)

Operations, Property and/or Equipment Description:

60 oven nonrecovery coke oven battery (C battery) and 40 oven nonrecovery coke oven battery (D battery)

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 P0133208 issued 11/18/2026)	Lead emissions shall not exceed 0.060 pound per hour from the waste gas stack. Hazardous air pollutant (HAP) emissions (excluding HCl) shall not exceed 0.0057 pound per ton of coal from the waste gas stack. Lead emissions shall not exceed 0.30 pound per hour from a single heat recovery steam generator (HRSG) bypass vent stack. HAP emissions (excluding HCl) shall not exceed 0.031 pound per ton of coal from a single HRSG bypass vent stack. See b)(2)i.

		Hydrogen chloride (HCl) emissions shall not exceed 0.10 pound per ton of coal from the waste gas stack HCl emissions shall not exceed 12.06 pounds per hour and 44.02 tons per year from the waste gas stack. HCl emissions shall not exceed 48.24 pounds per hour from a single HRSG bypass vent stack. HCl emissions shall not exceed 38.59 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. Mercury (Hg) emissions shall not exceed 0.008 pound per hour and 6.34 pounds per rolling, 12-month period from all HRSG bypass vent stacks for emissions unit P902. Mercury (Hg) emissions shall not exceed 0.01 pound per hour as a 30-day average and 55.5 pounds per rolling, 12-month period from the waste gas stack. See b)(2)j and b)(2)k. Visible particulate emissions from the waste gas exhaust stack(s) shall not exceed 10% opacity as a 6-minute average. Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

		No visible particulate emissions shall be permitted from the common battery tunnel or its associated piping. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 20.
b.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	PM/PM_{10} (filterable and condensable) emissions shall not exceed 30.69 pounds per hour from the waste gas stack. PM/PM_{10} (filterable and condensable) emissions shall not exceed 134.43 tons per year as a rolling, 12-month summation from the waste gas stack. Sulfur dioxide (SO_2) emissions shall not exceed 192.0 pounds per hour as a 3-hour block average from the waste gas stack except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements). See b)(2)p. SO_2 emissions shall not exceed 700.80 tons per year (1.6 pounds of SO_2/wet ton of coal) as a rolling, 12-month summation from the waste gas stack. Nitrogen oxides (NO_x) emissions shall not exceed 120.0 pounds per hour from the waste gas stack. NO_x emissions shall not exceed 438.0 tons per year as a rolling, 12-month summation from the waste gas stack.

		Carbon monoxide (CO) emissions shall not 21.81 pounds per hour from the waste gas stack. CO emissions shall not exceed 95.54 tons per year as a rolling, 12-month summation from the waste gas stack. Volatile organic compound (VOC) emissions shall not exceed 4.67 pounds per hour from the waste gas stack. VOC emissions shall not exceed 20.47 tons per year as a rolling, 12-month summation from the waste gas stack. PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack. PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. PM/PM_{10} (filterable and condensable) emissions shall not exceed 28.8 tons per 24 months from HRSG bypass vent stacks 6 through 10 and main stack bypass venting combined for emissions unit P902 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021. SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a

		single HRSG bypass vent stack. For any bypass venting incident lasting 48 consecutive hours or longer, SO_2 emissions shall not exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack. SO_2 emissions shall not exceed 384.0 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. SO_2 emissions shall not exceed 2,100 pounds per hour, as a 3-hour block average, from main stack bypass venting. SO_2 emissions shall not exceed 1,615 pounds per hour from main stack bypass venting for any bypass venting incident lasting 48 consecutive hours or longer, as a rolling 48-hour average, for each bypass venting incident. SO_2 emissions shall not exceed 260.4 tons per 24 months from HRSG bypass vent stacks 6 through 10 and main stack bypass venting combined for emissions unit P902 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021. NO_x emissions shall not exceed 24.0 pounds per hour from a single HRSG bypass vent stack. NO_x emissions shall not exceed 19.2 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

		CO emissions shall not exceed 4.36 pounds per hour from a single HRSG bypass vent stack. CO emissions shall not exceed 4.19 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. VOC emissions shall not exceed 0.93 pound per hour from a single HRSG bypass vent stacks. VOC emissions shall not exceed 0.90 ton per year from all HRSG bypass vent stacks combined for emissions units P901 and P902. Particulate (filterable and condensable) emissions from the lime spray dryer baghouse exhaust shall not exceed 0.014 gr/dscf of exhaust gases. See b)(2)l. NO_x emissions shall not exceed 1 pound per ton of coal from the waste gas stack. CO emissions shall not exceed 20 parts per million (ppm) from the waste gas stack. VOC emissions shall not exceed 10 ppm from the waste gas stack. See b)(2)a.
c.	OAC rule 3745-17-07(A)(1)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

d.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-18-06(E)(2)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-31-05 (D)	See b)(2)c.
g.	40 CFR Part 63, Subpart L (40 CFR 63.300-313) *National Emission Standards for Coke Oven Batteries* [In accordance with 40 CFR 63.300(b) and 64.301, this emissions unit is a greenfield nonrecovery coke oven battery subject to the emission limitations/control measures specified in this section.]	See b)(2)d, b)(2)e and b)(2)f.
h.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280 -7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	PM emissions from the waste gas stack shall not exceed 0.0049 gr/dscf at 10% oxygen per 40 CFR 63.7297(a). * Mercury emissions from the waste gas stack shall not exceed 3.0E-06 gr/dscf at 10% oxygen per 40 CFR 63.7297(b). * Total Acid Gases emissions from the waste gas stack shall not exceed 0.049 gr/dscf at 10% oxygen per 40 CFR 63.7297(c). * Total PAH emissions from the waste gas stack shall not exceed 4.8E-07 gr/dscf at 10% oxygen per 40 CFR 63.7297(d). *

		*in accordance with 63.7297, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026. See b)(2)j.
i.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280-7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	PM emissions from any HRSG Bypass Stack shall not exceed 0.032 gr/dscf at 10% oxygen. * Mercury emissions from any HRSG Bypass Stack shall not exceed 1.2E-05 gr/dscf at 10% oxygen. * Total Acid Gases emissions from any HRSG Bypass Stack shall not exceed 0.095 gr/dscf at 10% oxygen. * Total PAH emissions from any HRSG Bypass Stack shall not exceed 2.7E-06 gr/dscf at 10% oxygen. * Formaldehyde emissions from any HRSG Bypass Stack shall not exceed 0.0012 gr/dscf at 10% oxygen. * Visible particulate emissions from each bypass vent stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average. ** *in accordance with 63.7298, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026.

		**in accordance with 63.7299, the permittee shall comply with these emission limitations by the compliance date of 07/07/2025. See b)(2)j.
j.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 63.15)	The following citations of the General Provisions of 40 CFR Part 63 apply to operations subject to 40 CFR Part 63, Subpart L: 40 CFR 63.1 – 63.6, 63.8, 63.10 and 63.12 – 63.15. Table 1 to 40 CFR Part 63, Subpart CCCCC shows which parts of the General Provisions of 40 CFR Part 63 apply to operations subject to 40 CFR Part 63, Subpart CCCCC.
k.	OAC rule 3745-114-01 Air Toxics	See B.3.
	Charging Operations with baghouse with traveling hood	
l.	OAC rule 3745-31-05(A)(3)	Visible particulate emissions from the charging baghouse stack shall not exceed 10% opacity as a 6-minute average. Visible particulate emissions fugitive dust from charging operations shall not exceed 20% opacity as an average of 5 consecutive charges. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), 40 CFR Part 52.21 and OAC rules 3745-31-10 through 20.
m.	40 CFR Part 52.21 and OAC rule 3745-31-10 through 20	Filterable PM/PM_{10} emissions shall not exceed 0.0081 pound per ton of dry coal charged from the charging baghouse. Filterable PM/PM_{10} emissions shall not exceed 3.3 tons per year as a rolling, 12-month summation from the charging baghouse.

		Fugitive PM emissions shall not exceed 3.89 pounds per hour from charging. Fugitive PM emissions shall not exceed 3.55 tons per year from charging. Fugitive PM_{10} emissions shall not exceed 1.17 pounds per hour from charging. Fugitive PM_{10} emissions shall not exceed 1.06 tons per year as a rolling, 12-month summation from charging. SO_2 emissions shall not exceed 0.144 pound per hour from the charging baghouse. SO_2 emissions shall not exceed 0.13 ton per year as a rolling, 12-month summation from the charging baghouse. CO emissions shall not exceed 1.34 pounds per hour from the charging baghouse. CO emissions shall not exceed 1.23 tons per year as a rolling, 12-month summation from the charging baghouse. VOC emissions shall not exceed 0.96 pound per hour VOC from the charging baghouse. VOC emissions shall not exceed 0.88 ton per year as a rolling, 12-month summation from the charging baghouse.

		Filterable particulate emissions from the charging baghouse exhaust shall not exceed 0.008 gr/dscf of exhaust gases. See b)(2)a. SO_2 emissions shall not exceed 0.0003 pound per ton of coal from the charging baghouse. CO emissions shall not exceed 0.0028 pound per ton of coal from the charging baghouse. VOC emissions shall not exceed 0.0020 pound per ton of coal from the charging baghouse.
n.	OAC rule 3745-17-07(A)(1)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
o.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
p.	OAC rule 3745-31-05(D)	See b)(2)c.
q.	40 CFR Part 63, Subpart L (40 CFR 63.300-313) *National Emission Standards for Coke Oven Batteries* [In accordance with 40 CFR 63.300(b) and 63.301, this emissions unit is a greenfield nonrecovery coke oven battery subject to the emission limitations/control measures specified in this section.]	PM emissions from the charging baghouse stack shall not exceed 0.0081 pound per ton of dry coal charged as determined by the procedures in 40 CFR 63.309(k). For each day of operation, the permittee shall implement the work practices specified in 40 CFR 63.306(b)(6) and record the performance of the work practices as required in 40 CFR 63.306(b)(7). Except as provided in 40 CFR 63.304, the permittee shall observe the exhaust stack of each charging emissions control device at least once each day of operation during charging to determine if visible emissions are present and shall record the results of each

		daily observation or the reason why conditions did not permit a daily observation. If any visible emissions are observed, the permittee must follow the procedures specified in 40 CFR 63.303(d)(3). The permittee shall develop and implement written procedures for adjusting the oven uptake damper to maximize oven draft during charging and for monitoring the oven damper setting during each charge to ensure that the damper is full open. See b)(2)d, b)(2)e and b)(2)f.
r.	OAC rule 3745-114-01 Air Toxics	See B.3.
	Pushing Operations with flat push hot car vented to multiclone dust collector	
s.	OAC rule 3745-31-05(A)(3)	Visible particulate emissions of fugitive dust from the pushing operations shall not exceed 20% opacity as a 3-minute average. See b)(2)b. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.
t.	40 CFR Part 52.21 and OAC rules 3745-31-10 through 20	Filterable PM/PM_{10} emissions shall not exceed 13.72 pounds per hour from the flat push hot car vented to the multiclone dust collector. Filterable PM/PM_{10} emissions shall not exceed 12.53 tons per year as a rolling, 12-month summation from the flat push hot car vented to the multiclone dust collector.

		SO_2 emissions shall not exceed 24 pounds per hour from the flat push hot car vented to the multiclone dust collector. SO_2 emissions shall not exceed 21.90 tons per year as a rolling, 12-month summation from the flat push hot car vented to the multiclone dust collector. NO_x emissions shall not exceed 7.68 pounds per hour from the flat push hot car vented to the multiclone dust collector. NO_x emissions shall not exceed 7.01 tons per year as a rolling, 12-month summation from the flat push hot car vented to the multiclone dust collector. CO emissions shall not 36.96 pounds per hour from the flat push hot car vented to the multiclone dust collector. CO emissions shall not exceed 33.73 tons per year as a rolling, 12-month summation from the flat push hot car vented to the multiclone dust collector. VOC emissions shall not exceed 96.0 pounds per hour from the flat push hot car vented to the multiclone dust collector. VOC emissions shall not exceed 87.60 tons per year as a rolling, 12-month summation from the flat push hot car vented to the multiclone dust collector.

		Filterable particulate emissions shall not exceed 0.04 pound of PM/PM_{10} per ton of coke from the flat push hot car vented to the multiclone dust collector. See b)(2)a. SO_2 emissions shall not exceed 0.05 pound per ton of coal from the flat push hot car vented to the multiclone dust collector. NO_x emissions shall not exceed 0.016 pound per ton of coal from the flat push hot car vented to the multiclone dust collector. CO emissions shall not exceed 0.077 pound per ton of coal from the flat push hot car vented to the multiclone dust collector. VOC emissions shall not exceed 0.2 pound per ton of coal from the flat push hot car vented to the multiclone dust collector.
u.	40 CFR Part 63, Subpart CCCCC (40 CFR 63.7280-7352) *National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks* [In accordance with 40 CFR 63.7282, this emissions unit is a new coke oven battery subject to the emission limitations/control measures specified in this section.]	Particulate emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.04 lb of PE/ton of coke per 40 CFR 63.7290(a)(4). Mercury emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 8.9E-07 lb per ton of coke per 40 CFR 63.7290(b). * Total Acid Gas emissions the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.013 lb per ton of coke per 40 CFR 63.7290(c). * Hydrogen Cyanide emissions from the flat push hot car vented to multiclone dust

		collector exhaust shall not exceed 0.0015 lb per ton of coke per 40 CFR 63.7290(d). * Total Polycyclic Aromatic Hydrocarbons emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 4.0E-04 lb per ton of coke per 40 CFR 63.7290(e). * Maintain daily average fan motor amperes at or above minimum motor amperes established during the initial performance test per 40 CFR 63.7290(f)(3)(i) or maintain the daily average volumetric flow rate at the inlet of the control device at or above the minimum level established during the initial performance test per 40 CFR 63.7290(f)(3)(ii). Maintain the daily average pressure drop of the multiclone at or below the minimum level established during the initial performance test per 40 CFR 63.7290(f)(4). *in accordance with 63.7290, the permittee shall comply with these emission limitations by the compliance date of 01/05/2026. See b)(2)j.
v.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the flat push hot car vented to the multiclone dust collector stacks shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
w.	OAC rule 3745-17-11(B)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
x.	OAC rule 3745-31-05(D)	See b)(2)c.
y.	OAC rule 3745-114-01 Air Toxics	See B.3.

z.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See C.8.c)(1), C.8.d)(1) and C.8.d)(44) through (46).

(2) Additional Terms and Conditions

a. OAC rule 3745-31-15 requires the following best available control technologies:

i. The waste gas from coking shall be processed by the use of a lime spray dryer with a manufacturer's design control efficiency of 92% for SO_2 control except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements), staged combustion for NO_x control, combustion optimization for CO and VOC control, and a baghouse for PM control.

ii. The pushing operations shall employ a mobile hood with a multiclone dust collector for PM control and work practices for CO and VOC control.

iii. The charging operations shall employ a baghouse with a traveling hood for PM control.

b. The emissions control system for the pushing operation(s) shall maintain a minimum capture efficiency of 98%.

c. Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P001, P002, P901 and P902, combined.

d. Pursuant to 40 CFR 63.300, the emission limitations set forth in this subpart, shall apply at all times.

e. The coke oven emissions from the nonrecovery coke oven batteries shall not exceed 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); and

The permittee shall monitor and record, once per day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under a negative pressure.

f. For charging operations, the permittee shall install, operate and maintain an emission control system for the capture and collection of emissions in a manner consistent with good air pollution control practices for minimizing emissions from the charging operation.

g. As required by 40 CFR 63.6(e)(1)(i), the permittee must always operate and maintain this affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by this subpart.

h. The permittee must prepare and operate at all times according to a written operation and maintenance plan for each capture system and control device applied to pushing

emissions from a new or existing coke oven battery. Each plan must address at a minimum the elements in paragraphs (i) and (ii) below.

i. Monthly inspections of the equipment that are important to the performance of the total capture system (e.g., pressure sensors, dampers, and damper switches). This inspection must include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). The operation and maintenance plan must also include requirements to repair any defect or deficiency in the capture system within 30 days after the date that the defect or deficiency is discovered.

ii. Preventative maintenance for each control device, including a preventative maintenance schedule that is consistent with the manufacturer's instructions for routine and long-term maintenance.

i. Hazardous air pollutant (HAPs) emissions (excluding HCl) shall not exceed 6.43 tons per year for emissions units P001, P002, P901 and P902, combined.

j. The permittee shall operate and maintain a powder activated carbon (PAC) injection system for the control of mercury emissions, as required, to comply with the mercury emissions limits from the waste gas stack. The PAC injection system shall be operated in a manner that will demonstrate compliance with the mercury emissions limits established under this section. The system shall be operated, at all times when the spray dryer/fabric filter system is operated (except during the startup and shutdown of the spray dryer/fabric filter, during periods of routine maintenance on the PAC system, or during spray dryer/fabric filter system bypass events).

k. The facility may petition the director to remove the continuous mercury monitoring terms listed in d)(40) through d)(44). The director may remove the language if emissions are considered to be consistent and understood of normal coking operations.

l. PM and PM_{10} emission limitations are representative of condensable and filterable particulate emissions from the waste gas and bypass stacks.

m. When charging coal with a sulfur content greater than or equal to 1.3 weight percent sulfur, the permittee shall either:

i. adjust operating parameters of the lime spray dryer as needed to increase the control efficiency for SO_2 emissions to comply with the pound per hour and rolling, 12-month SO_2 emission limitations; or

ii. reduce production as needed to comply with the pound per hour and rolling, 12-month SO_2 emission limitations.

n. The permittee shall maintain a written quality assurance/quality control plan for the continuous SO_2 monitoring system, designed to ensure continuous valid and representative readings of SO_2 emissions in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO_2 monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60.13; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at frequencies required per 40 CFR Part 60.13.

o. The continuous emission monitoring system consists of all 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.

p. The pound per hour SO_2 emission limitation and minimum 92% SO_2 control efficiency requirement do not apply during maintenance of the lime spray dryer (e.g. atomizer replacement). This exemption may be used for no more than one 3-hr block average period per week.

q. The hourly and annual emission limits for PM/PM_{10} (filterable and condensable) established for the HRSG bypass vent stacks were developed using testing data from a similar facility. The permittee reserves the right to request an administrative permit modification to revise these permit limits based on site-specific emissions data obtained during any required performance test, if necessary.

c) Operational Restrictions

(1) The pressure drop across the waste gas exhaust baghouse shall be maintained within the range of 3 to 15 inches of water while the emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1) and 40 CFR Part 64]

(2) The pressure drop across each charging baghouse shall be maintained within the range of 3 to 12 inches of water while the emissions unit is in operation.

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

(3) The permittee shall operate and maintain common duct temperatures at a minimum of 1400 °F as established in the Work Practice Plan to ensure emission limits for the waste gas exhaust are not exceeded.

Natural gas usage up to 100 MMBTU/hr is allowed for gas sparging in the common tunnel and gas lancing in the coke ovens.

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

(4) The maximum hourly charging/pushing rate for this emissions unit shall not exceed 10 ovens per hour.

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

(5) The maximum daily wet coal usage rate for this emissions unit shall not exceed 2,400 wet tons coal, based on a rolling, 7-day average.

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

(6) The maximum annual wet coal usage rate for this emissions unit shall not exceed 876,000 tons, based upon a rolling, 12-month summation of the wet coal usage rates. This emissions unit is an existing emissions unit and therefore has existing records and does not need to be restricted on a monthly basis.

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

(7) The permittee shall ensure that the common battery tunnel(s), oven exhaust ductwork, waste heat ductwork, heat recovery steam generators, ductwork from the heat recovery steam generators to the lime spray dryer, lime spray dryer, baghouse and fan capacity are designed and installed to handle peak gassing periods.

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

(8) It is recognized that soot formation can occur on the heat transfer surfaces of the heat recovery steam generators and reduce the heat transfer efficiency. The permittee shall implement maintenance procedures that allow for removal of soot from the heat transfer surfaces of the heat recovery steam generators without shutdown of the heat recovery steam generator(s). These maintenance procedures can include, but are not limited to, installation of soot-blowers on the heat recovery steam generators to allow for periodic cleaning of the heat transfer surfaces.

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

(9) Waste gas emissions shall not be vented to the HRSG bypass vent stacks for HRSG or ancillary equipment (e.g. vent stack lid) maintenance for more than 1,920 hours per rolling, 12-month period for vent stacks VS1 thru VS10 (emissions units P901 and P902, combined). There shall be no more than one HRSG bypass vent stack at either emissions unit P901 or P902 in use at any time.

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

(10) The powder activated carbon (PAC) injection system shall be operated at all times when the spray dryer/fabric filter system is operated at a carbon injection rate that can achieve the mercury emission limitation of 0.01 pound per hour (as a 30-day average) and 55.5 pounds per year (as a rolling, 12-month summation) of mercury from the P902 main stack.

The requirement to operate the PAC system and the mercury emission limit(s) established under this section shall not apply during the startup and shutdown of the spray dryer/fabric filter, during periods of routine maintenance on the PAC system, or during spray dryer/fabric filter system bypass events.

The permittee may elect to meet the mercury emissions limitation by a combination of carbon injection and other methods, including the injection of other sorbents or additives, coal specifications, and operational practices for the spray dryer.

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

(11) The permittee shall comply with the applicable operational restrictions required under 40 CFR Part 63, Subpart L, including the following sections:

63.303(b)(3), 63.306(b)(6), 63.306(b)(7)	Work practices for charging operations
63.303(c)	Work practices for any nonrecovery coke oven battery
63.303(d)(4)	Work practices for new nonrecovery coke oven batteries

(Authority for Term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart L)

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

63.7290(f)(3) and (4)	Multiclone pushing capture / control system operating limits for fan amps and daily average pressure drop
63.7293(a)-(b)	Work practices for fugitive pushing emissions: visually inspect each oven prior to pushing by opening the door damper and observing the bed of coke do not push the oven unless the visual inspection indicates there is no smoke in the open space above the coke bed and that there is an unobstructed view of the door on the opposite side of the oven
63.7300(a)	General duty to minimize emissions
63.7300(c)	Operation and maintenance plan for pushing
63.7323(c) and (e)	Site-specific operating limit procedures for pushing capture system(s)
63.7323(d) and (e)	Site-specific operating limit procedures for pushing multicyclone(s)

(Authority for Term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC)

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the waste gas baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual (s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1) and 40 CFR Part 64]

(2) The permittee shall properly operate and maintain equipment to monitor the pressure drop across each charging baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a once per shift basis.

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

(3) The permittee shall properly operate and maintain equipment to monitor the pressure drop across the FPHC vented to a multiclone dust collector while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

The hood and duct work collecting pushing emissions shall be visually examined monthly for areas potentially needing repair. When an inspection identifies an area needing repair, the permittee shall maintain records of the date the inspection, the dates of each attempt to repair, the repair methods of each attempt to repair, and the date of successful repair.

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

(4) The permittee shall maintain daily records of the coal usage rate, in wet tons, in this emissions unit.

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

(5) The permittee shall maintain hourly records of the charging/pushing rate, in number of charges/pushes per hour, for this emissions unit.

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

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

a. the wet coal usage rate for each month;

b. the rolling, 12-month summation of the monthly wet coal usage rates.

c. the rolling, 12-month summation of the monthly PM, PM_{10}, $PM_{2.5}$, SO_2, CO, and NOx emissions;

d. the VOC, lead, HCl and HAP emission rates;

e. the rolling, 12-month summation of the monthly lead emissions, in tons, for emissions units P001, P002, P901 and P902 combined;

f. the HCl emissions, in tons, for emissions units P901 and P901 combined; and

g. the HAP (excluding HCl) emissions, in tons, for emissions units P001, P002, P901 and P902 combined.

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

(7) The permittee shall operate and maintain equipment to continuously monitor and record SO_2 emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO_2 monitoring system including, but not limited to:

a. emissions of SO_2 in parts per million for each cycle time of the analyzer, with no resolution less than one data point per minute required;

b. emissions of SO_2 in pounds per hour and in units of the applicable standard(s) in the appropriate averaging period;

c. results of quarterly cylinder gas audits;

d. results of daily zero/span calibration checks and the magnitude of manual calibration adjustments;

e. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

f. hours of operation of the emissions unit, continuous SO_2 monitoring system, and control equipment;

g. the date, time, and hours of operation of the emissions unit without the control equipment and/or the continuous SO2 monitoring system;

h. the date, time, and hours of operation of the emissions unit during any malfunction of the control equipment and/or the continuous SO_2 monitoring system; and

i. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (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: 40 CFR 60.13, 40 CFR Part 60, Appendices B & F and 40 CFR Part 64]

(8) The permittee shall maintain on-site, the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous SO_2 monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6. The letter(s)/document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: 40 CFR 60.13 and 40 CFR Part 60, Appendix B]

(9) The permittee shall monitor and record the temperature of the common battery tunnel on a once per shift basis.

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

(10) The permittee shall maintain records for each waste gas bypass event of the date and time each event began, an identification of the stack venting, and the duration in hours.

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

(11) The permittee shall collect monthly composite samples of the coal charged in this emissions unit. The permittee shall also collect a composite sample of the coal charged in this emissions unit each time the coal blend is changed. The individual samples for each monthly composite shall be collected from primary conveyor belt that feeds batteries A and B or other location mutually agreeable by the permittee and Ohio EPA. A sufficient number of individual samples shall be collected so that each composite sample is representative of the average quality of coal charged in this emissions unit during each calendar month. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent), mercury content (percent) and chlorine content (percent). The analytical methods for sulfur content, mercury content and chlorine content shall be: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; D6722-01 Standard Test Method for Total Mercury in Coal and Coal Combustion Residues by Direct Combustion Analysis; D6721-01 Standard Test Method for Determination of Chlorine in Coal by Oxidation Hydrolysis Microcoulometry. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

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

(12) The permittee shall maintain monthly records of the results of the analyses for sulfur content, mercury content, and chlorine content of the coal charged.

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

(13) All bypass vent stacks shall be equipped with sensors that detect when the bypass stacks are open, or partially opened, either due to relieving system pressure or manual opening of the bypass vent stacks by the operator. These sensors shall be instrumented to the operator and an alarm sounded when there is stack gas flow to any of the bypass vent stacks. The permittee shall record and maintain daily records for each bypass vent stack the time periods that there was flow through the bypass vent stack(s).

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

(14) The permittee shall install, operate, and maintain a sorbent trap monitoring system (as defined in 40 CFR Part 72.2) to measure and record the concentration of mercury in the exhaust gas from the main stack according to the procedures of 40 CFR Part 75.15 and the following requirements.

a. The sorbent traps used in the sorbent trap monitoring system (as defined in 40 CFR Part 72.2) shall be of sufficient size to collect samples for a minimum sampling duration of 7 days. The permittee shall replace the sorbent traps in the sorbent trap sampling system on a schedule that satisfies the performance criteria in the Quality Assurance and Operating Procedures for Sorbent Trap Monitoring Systems in 40 CFR Part 75, Appendix K.

b. The permittee shall calculate and record the mercury emission rate in pounds for each calendar month and pounds per rolling, 12-month period using equations 1 and 2 below, except that for a particular pair of sorbent traps, C_h in equation 1 shall be the flow-proportional average Hg concentration measured over the data collection period.

(Equation 1)

$$E_h = K C_h Q_h t_h (1-B_{ws})$$

where:

E_h = Hg mass emissions for the hour, in pounds;

K = units conversion constant, 6.24×10^{-11} lb-scm/µg-scf;

C_h = hourly mercury concentration, dry basis, µg/dscm;

Q_h = hourly stack gas volumetric flow rate, (scfh);

t_h = unit operating time, i.e., the fraction of the hour for which the unit operated; and

B_{ws} = stack gas moisture content, expressed as a decimal fraction (e.g., for 8 percent H_2O, B_{ws} = 0.08).

(Equation 2)

$$M = \sum_{h=1}^{n} E_h$$

where:

M = total Hg mass emissions for the month;

E_h = Hg mass emissions for hour "h", from Equation 1, in pounds; and

n = the number of unit operating hours in the month with valid sorbent trap monitoring system data.

c. The emissions data must be corrected for the stack gas moisture content. A certified continuous moisture monitoring system that meets the requirements of 40 CFR Part 75.11(b) is acceptable for this purpose. The permittee may use a default moisture value determined during the initial stack test with prior approval from Ohio EPA.

d. Annual RATA of sorbent trap monitoring systems shall be performed in accordance with Appendices A and B of 40 CFR Part 75, and all other quality assurance requirements specified in Appendix K to 40 CFR Part 75 shall be met for sorbent trap monitoring systems.

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

(15) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall monitor continuously the mercury emissions from the main stack (or collect data at all required intervals) at all times that the emissions unit is operating.

In the event that adverse weather conditions prohibit timely change-out of the mercury sorbent traps, the permittee shall meet the following conditions:

a. The permittee shall document the dates when it was determined that adverse weather conditions prohibited safe access to the stack platform for mercury sorbent trap change-out. These dates shall be documented in the semiannual monitoring report. The sorbent trap shall be changed out as soon as possible after weather conditions improve.

b. The mercury sorbent trap monitoring plan shall include provisions for alternate trap change-out procedures in the event of adverse weather conditions that pose safety concerns for plant personnel.

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

(16) The permittee may not use mercury continuous emissions sampling system data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities, in data averages and calculations used to report emissions or operating levels. The permittee shall use all data collected during all other periods in assessing the operation of the control device and associated control system.

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

(17) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring failures that are caused in part by poor

maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

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

(18) Prior to startup, the permittee shall prepare and submit to the Portsmouth Local Air Agency and Ohio EPA Central Office for approval a monitoring plan for the mercury sorbent trap monitoring system. The plan must address the requirements below:

a. installation of the sorbent trap monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., at or downstream of the last control device);

b. performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems;

c. performance evaluation procedures and acceptance criteria (e.g., calibrations);

d. ongoing operation and maintenance procedures in accordance with 40 CFR 60.13(d) or 40 CFR Part 75;

e. ongoing data quality assurance procedures in accordance with 40 CFR 60.13 or 40 CFR Part 75; and

f. ongoing record keeping and reporting procedures in accordance with 40 CFR Part 60, Subpart Da.

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

(19) If continuous mercury emissions monitoring systems prove to reliably and accurately measure the mercury emissions from non-recovery coke ovens in the future, the permittee may switch from a Method 324 monitoring system to a continuous mercury emissions monitoring system, or Ohio EPA may require the permittee to install a continuous mercury emissions monitoring system.

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

(20) Ohio EPA reserves the right to require the permittee to install a continuous opacity monitoring system on the main stack if Method 9 readings indicate that visible emissions are at a level near the allowable visible emission limitation. If Ohio EPA determines that a continuous opacity monitoring system is needed to assure compliance with the visible emission limitation, the permittee shall install an opacity monitoring system on the main stack within 90 days of notification by Ohio EPA that an opacity monitoring system is required to be installed. Prior to installation of an opacity monitoring system, the permittee shall submit information detailing

the proposed location of the sampling site in accordance with the siting requirements in 40 CFR Part 60, Appendix B, Performance Specification 1 for approval by the Ohio EPA, Central Office.

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

(21) The permittee shall maintain monthly records of all the following information for all periods when waste gas emissions are vented to the HRSG bypass vent stacks:

a. the date, time, and duration of each bypass event;

b. the identification of each bypass vent stack in use;

c. the reason for the bypass event; and

d. the rolling, 12-month summation of the HRSG bypass vent stack usage rates per stack.

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

(22) The permittee shall install equipment to continuously monitor and record the activated carbon injection rate, in units of pounds per hour.

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

(23) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart L, including the following sections:

63.303(d)(3), 63.309(m) if required	Daily visible emission monitoring requirements
63.309(j)	Weekly performance test requirements
63.309(l)	Subsequent performance test requirements
63.311(f)	Listing of records to be maintained
63.311(g)	Availability of records

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart L)

(24) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7299	HRSG bypass stack opacity reading requirements
63.7330(d), 63.7331(g),	Capture system monitoring requirements for pushing

63.7331(h), 63.7331(i)	
63.7330(f), 63.7331(k)	Multicyclone monitoring requirements for pushing
63.7331(b)-(d)	Site-specific monitoring plan and continuous parametric monitoring system (CPMS) requirements
63.7332(a)-(b)	Continuous monitoring and data collection requirements
63.7333(d)	Continuous compliance demonstration requirements for capture system(s)
63.7333(h)	Continuous compliance demonstration requirements for multicyclone(s)
63.7334(c)	Continuous compliance demonstration requirements for work practice standards (inspections)
63.7335(b) and (d)	Continuous compliance demonstration requirements for operation and maintenance requirements
63.7342(a), (c), and (d)	Required overall records to be maintained
63.7343(a)-(c)	Format and retention of records

(Authority for term: OAC rule 3745-77-07(A)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart CCCCC)

e) Reporting Requirements

(1) The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the waste gas baghouse did not comply with the allowable range specified above.

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

(2) The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across either charging baghouse did not comply with the allowable range specified in above.

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

(3) The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the pushing multiclone dust collector did not comply with the allowable range specified above.

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

(4) The permittee shall submit semiannual written reports that (a) list all inspections that identified an area of the hood and duct work needing repair, and (b) a description of the repairs completed.

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

(5) The permittee shall submit deviation (excursion) reports that identify all exceedances of the daily wet coal usage rate limitation.

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

(6) The permittee shall submit deviation (excursion) reports that identify all exceedances of the hourly charging/pushing rate limitation.

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

(7) The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month wet coal usage rate limitation.

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

(8) These reports are due by the date described in Standard Terms and Conditions of the permit.

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

(9) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its continuous SO_2 monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of SO_2 emissions in excess of any applicable limit specified in this permit, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer and model number of the continuous SO_2 and other associated monitors;

iii. a description of any change in the equipment that comprises the continuous emission monitoring system (CEMS), including any change to the hardware, changes to the software that may affect the CEMS readings, and/or changes in the location of the CEMS sample probe;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedance during the calendar quarter, as specified above;

v. the total SO_2 emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the continuous SO_2 monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly cylinder gas audits;

ix. unless previously submitted, results and dates of the relative accuracy test audit(s), including results in units of the applicable standard(s), (during appropriate quarter(s);

x. unless previously submitted, the results of any relative accuracy test audit showing the continuous SO_2 monitor out-of-control and the compliant results following any corrective actions;

xi. the date, time, and duration of any/each malfunction** of the continuous SO_2 monitoring system, emissions unit, and/or control equipment;

xii. the date, time, and duration of any downtime** of the continuous SO_2 monitoring system and/or control equipment while the emissions unit was in operation; and

xiii. the reason (if known) and the corrective actions taken (if any) for each event in (b)(xi) and (xii).

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

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

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit; SO_2 monitoring system downtime attributed to main stack bypass events shall not be counted against the facility for enforcement purposes but must be reported.

[Authority for term: 40 CFR 60.7]

(10) The permittee shall submit common battery tunnel temperature deviation (excursion) reports that identify all periods of during which the temperature in the common battery tunnel did not comply with the allowable range specified above. These reports shall include the time of the temperature deviation, the duration of the exceedance and the corrective action taken.

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

(11) The permittee shall submit deviation (excursion) reports that identify all exceedances of the 0.41 ton per year lead emission limitation.

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

(12) The permittee shall submit semiannual written reports which identify the date, time, and duration of each waste gas bypass event.

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

(13) The deviation (excursion) reports shall be submitted in accordance with Part 1 - Standard Terms and Conditions of this permit.

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

(14) The permittee shall submit to the Portsmouth Local Air Agency quarterly common battery tunnel negative pressure deviation (excursion) reports that identify all periods of time during which there was not a negative pressure across each common battery tunnel. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(15) The permittee shall submit to the Portsmouth Local Air Agency quarterly deviation (excursion) reports that identify all periods during which visual inspections of the enclosed FPHC identified areas potentially needing repair to minimize visible emissions of fugitive dust. The report shall include the repair methods of each attempt to repair, and the date of successful repair. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(16) The permittee shall submit to the Portsmouth Local Air Agency quarterly reports concerning the quality and quantity of the coal coked in this emissions unit. These reports shall include the following information for the emissions unit for each month during the calendar quarter:

a. the total quantity of wet coal charged (tons);

b. the average mercury content (percent) of the coal charged;

c. the average chlorine content (percent) of the coal charged; and

d. the average sulfur content (weight percent) of the coal charged.

These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(17) The permittee shall submit to the Portsmouth Local Air Agency quarterly deviation (excursion) reports that identify all exceedances of the HRSG bypass vent stack usage limitations. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during the quarter. These reports are due by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters.

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

(18) Reporting Requirements for Hg Sorbent Trap Monitoring System

The permittee shall submit quarterly reports to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of Hg values in excess of the applicable mercury emission limitations for the main stack under b)(1)a for this emissions unit in units of pounds per rolling, 12-month period. These reports shall also contain the total Hg emissions for each month and the rolling, 12-month summation of the monthly emissions.

The permittee shall submit reports to the Portsmouth Local Air Agency documenting any Hg sorbent trap monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the sorbent trap monitoring system while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the sorbent trap monitoring system while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31 and October 31 of each year and shall address the data obtained during the previous calendar quarter.

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

(19) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart L, including the following sections:

63.311(a)	Report submission
63.311(b)	Initial compliance certification requirements
63.311(c)	Notification requirements
63.311(d)	Semiannual compliance certification requirements
63.311(e)	Report requirement for venting of coke oven gas

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63, Subpart L)

(20) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 63, Subpart CCCCC, including the following sections:

63.7299	HRSG bypass stack opacity reporting requirements
63.7336(a)	Deviation reporting
63.7340(a)	Overall notification reporting requirements
63.7340(c)	Initial notification reports
63.7340(d)	Notification of intent to test
63.7340(e)	Notification of compliance status
63.7341(a)	Compliance report due dates
63.7341(c)	Compliance report contents
63.7341(e)	Title V monitoring report allowance
63.7341(f)	Electronic reporting of compliance reports
63.7341(g)	Electronic reporting of performance tests
63.7341(h)	Confidential Business Information notice

(Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A)(3), OAC rules 3745-31-10 through 20, and 40 CFR Part 63 Subpart CCCCC)

f) Testing Requirements

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

a. Emissions Limitation

Lead emissions shall not exceed 0.060 pound per hour from the waste gas stack.

Applicable Compliance Method

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Methods 12 or 29.

Compliance testing will be conducted in accordance with the requirements specified in the initial Title V permit.

b. Emissions Limitation

HAPs (excluding HCl) emissions shall not exceed 0.0057 pound per ton of coal charged from the waste gas stack.

Applicable Compliance Method

The emission limitation was derived by the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July 2001] and HNCC test data.

If required, compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

c. Emission Limitation:

HAPs (excluding HCl) emissions shall not exceed 6.43 tons per year from emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of i through iv below:

i. Waste Gas Stack:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July 2001] by the maximum annual coal charge rate (assuming 95% removal of metals except lead and mercury) divided by 2000 pounds per ton.

ii. Pushing Stack:

Compliance shall be determined by multiplying the emission factor of 0.00024 pound total combined HAPs per wet ton of coal charged, multiplying the emission factor of each of the following: 0.00021 pound Benzene Soluble Compounds (BSO) per wet ton of coal charged, 0.000012 pound Arsenic per wet ton of coal charged, 0.000015 pound lead per wet ton of coal charged, and 0.0000021 pound manganese per wet ton of coal charged, (emission factors from October 1989 Jewell stack test) by the wet tons of coal charged per year, divided by 2000 pounds per ton.

iii. Charging Baghouse:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton, times the maximum tons of coal charged per year, divided by 2,000 pounds per ton. The HAPs emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

iv. Quench Towers:

Compliance shall be determined by multiplying the summation of the HAP emission factor, in pounds per ton, times the wet tons of coal charged per year, and divide by 2000 pounds per ton. The HAPs emission factor shall be calculated from the results of the most recent quench water analysis which demonstrated compliance.

v. Bypass Vent Stacks:

Compliance shall be demonstrated by multiplying the summation of the individual HAP pollutant pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] times the tons of coal charged per day, multiplied by an estimated 20% of total waste gas venting times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton.

d. Emission Limitation:

Visible particulate emissions from the waste gas exhaust stack(s) shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

e. Emission Limitation:

Visible particulate emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(3).

f. Emission Limitation:

No visible particulate emissions shall be permitted from the common battery tunnel or its associated piping.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 22 and the procedures and methods required in OAC rule 3745-17-03(B)(4).

g. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 30.69 pounds per hour from waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 51, Appendix M, Methods 201 and 202.

Compliance testing will be conducted in accordance with the requirements specified in the initial Title V permit.

h. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 134.43 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM/PM_{10} emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The PM/PM_{10} emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

i. Emission Limitation:

SO_2 emissions shall not exceed 192.0 pounds per hour as a 3-hour block average from the waste gas stack except during maintenance of the lime spray dryer and ancillary equipment (e.g. atomizer replacements).

Applicable Compliance Method:

Ongoing compliance with the SO_2 emission limitations above, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in the Monitoring and Record keeping Section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

j. Emission Limitation:

SO_2 emissions shall not exceed 700.80 tons per year (1.6 pound of SO_2/wet ton of coal) as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance with the 12-month rolling emission limitation shall be demonstrated under the record keeping requirements in d)(6) by adding the current month's emissions to the emissions for the preceding eleven calendar months.

If required, compliance with the pound per ton emission rate for SO_2 shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Methods 1 through 4, and 6.

k. Emission Limitation:

NO_x emissions shall not exceed 120.0 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7E.

l. Emission Limitation:

NO_x emissions shall not exceed 438.0 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the NO_x emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The NO_x emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

m. Emission Limitation:

CO emissions shall not exceed 21.81 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

n. Emission Limitation:

CO emissions shall not exceed 95.54 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the CO emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

o. Emission Limitation:

VOC emissions shall not exceed 4.67 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

p. Emission Limitation:

VOC emissions shall not exceed 20.47 tons per year as a rolling, 12-month summation from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the VOC emission factor, in pounds per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

q. Emission Limitation:

Particulate (filterable and condensable) emissions from the lime spray dryer baghouse exhaust shall not exceed 0.014 gr/dscf of exhaust gases.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 51, Appendix M, Methods 201 and 202.

r. Emission Limitation:

NO_x emissions shall not exceed 1 pound per ton of coal charged from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

s. Emission Limitation:

CO emissions shall not exceed 20 ppm from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

t. Emission Limitation:

VOC emissions shall not exceed 10 ppm from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

u. Emission Limitation:

Fugitive PM emissions shall not exceed 3.89 pounds per hour from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged times the maximum tons of wet coal charged per hour times the capture factor of 0.3 (70% capture rate). The PM emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

v. Emission Limitation:

Fugitive PM emissions shall not exceed 3.55 tons per year from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged times the maximum tons of wet coal charged per year times the capture factor of 0.3 (70% capture rate), divided by 2,000 pounds per ton. The PM emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

w. Emission Limitation:

Visible particulate emissions of fugitive dust from charging operations from this emissions unit shall not exceed 20% opacity as an average of 5 consecutive charges.

Applicable Compliance Method:

The permittee shall conduct a performance test each week to demonstrate compliance with this opacity limit. The permittee shall conduct each performance test according to the procedures and requirements in paragraphs (i)(a) through (iii) below.

i. Using a certified observer, determine the average opacity of five consecutive charges per week for each charging emissions capture system if charges can be observed according to Method 9 (40 CFR Part 60, Appendix A), except as specified in paragraphs (a) and (b) below.

(a) Instead of the procedures in section 2.4 of Method 9 (40 CFR Part 60, Appendix A), record observations to the nearest 5 percent at 15-second intervals for at least five consecutive charges.

(b) Instead of the procedures in section 2.5 of Method 9 (40 CFR Part 60, Appendix A), determine and record the highest 3-minute block average opacity for each charge from the consecutive observations recorded at 15-second intervals.

ii. Opacity observations are to start when the door is removed for charging and end when the door is replaced.

iii. Using the observations recorded from each performance test, the certified observer shall compute and record the average of the five 3-minute block averages.

x. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 0.0081 pound per ton of dry coal charged from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

y. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 3.3 tons per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM emission factor, in pounds / ton dry coal, times the tons coal charged per month, divided by 2,000 pounds per ton. The PM emission factor was obtained from 40 CFR 63.303(d)(2), dated April 15, 2005.

z. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 1.17 pounds per hour from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor of 0.027 pound per ton of coal charged, times the tons of wet coal charged per hour by the capture factor of 0.3 (70% capture rate) by 0.30 the fraction of TSP estimated to by PM_{10}. The emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

aa. Emission Limitation:

Fugitive PM_{10} emissions shall not exceed 1.06 tons per year as a rolling, 12-month summation from charging.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.027 pound per ton of coal charged, times the tons of wet coal charged per month by the capture factor of 0.3 (70% capture rate) by 0.30 the fraction of TSP estimated to by PM_{10}, divided by 2,000 pounds per ton. The emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

bb. Emission Limitation:

SO_2 emissions shall not exceed 0.0003 pound per ton of coal charged and 0.144 pound per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 6C.

Compliance shall be demonstrated by multiplying the emission factor of 0.0003 pound per ton wet coal charged, times the tons of wet coal charged per hour. The SO_2 emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

cc. Emission Limitation:

SO_2 emissions shall not exceed 0.13 ton per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0003 pound per ton wet coal charged, times the tons of wet coal charged per month, divided by 2,000 pounds per ton. The SO_2 emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

dd. Emission Limitation:

CO emissions shall not exceed 0.0028 pound per ton of coal charged and 1.34 pounds per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 4 and 10.

Compliance shall be demonstrated by multiplying the emission factor of 0.0028 pound per ton wet coal charged times the wet tons of coal charged per hour. The SO_2 emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

ee. Emission Limitation:

CO emissions shall not exceed 1.23 tons per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0028 pound per ton wet coal charged, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

ff. Emission Limitation:

VOC emissions shall not exceed 0.0020 pound per ton of coal charged and 0.96 pound per hour from the charging baghouse.

Applicable Compliance Method:

If required, compliance with the pound per ton limit shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60 Appendix A, Method 1 through 4 and Method 25 or 25A.

Compliance shall be demonstrated by multiplying the emission factor of 0.0020 pound VOC per wet ton of coal charged, times the wet tons of coal charged per hour. The VOC emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

gg. Emission Limitation:

VOC emissions shall not exceed 0.88 ton per year as a rolling, 12-month summation from the charging baghouse.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the emission factor of 0.0020 pound of VOC per wet ton of coal charged, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor was calculated from the results of an October 1989 stack test at Jewell Coal and Coke Company located in Vansant, Virginia.

hh. Emission Limitation:

Filterable particulate emissions from the charging baghouse exhaust shall not exceed 0.008 gr/dscf of exhaust gases.

Applicable Compliance Method:

Compliance shall also be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 5.

ii. Emission Limitation:

Visible particulate emissions from the charging baghouse stack shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

jj. Emission Limitation:

Visible particulate emissions of fugitive dust from pushing operations shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(3).

kk. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 13.72 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton coke pushed, times the maximum tons of coke pushed per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ll. Emission Limitation:

Filterable PM/PM_{10} emissions shall not exceed 12.53 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the PM/PM_{10} emission factor, in pound per ton coke, times the tons of coke pushed per month, divided by 2,000 pounds per ton. The PM/PM_{10} emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

mm. Emission Limitation:

SO_2 emissions shall not exceed 24 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

nn. Emission Limitation:

SO_2 emissions shall not exceed 21.90 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the SO_2 emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The SO_2 emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

oo. Emission Limitation:

NO_x emissions shall not exceed 7.68 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

pp. Emission Limitation:

NO_x emissions shall not exceed 7.01 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the NO_X emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The NO_X

emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

qq. Emission Limitation:

CO emissions shall not exceed 36.96 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

rr. Emission Limitation:

CO emissions shall not exceed 33.73 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the CO emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The CO emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ss. Emission Limitation:

VOC emissions shall not exceed 96.0 pounds per hour from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor, in pounds per ton wet coal charged, times the maximum tons of wet coal charged per hour. The emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

tt. Emission Limitation:

VOC emissions shall not exceed 87.60 tons per year as a rolling, 12-month summation from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the VOC emission factor, in pound per ton of coal charged, times the tons of coal charged per month, divided by 2,000 pounds per ton. The VOC emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

uu. Emission Limitation:

Filterable particulate emissions from the FPHC vented to the multiclone dust collector exhaust shall not exceed 0.04 pound of PM_{10} per ton of coke.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 5.

vv. Emission Limitation:

SO_2 emissions shall not exceed 0.05 pound per ton of coal charged from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 6.

ww. Emission Limitation:

NO_x emissions shall not exceed 0.016 pound per ton of coal charged from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

xx. Emission Limitation:

CO emissions shall not exceed 0.077 pound per ton of coal charged from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

Compliance testing will be conducted in accordance with the requirements specified in the initial Title V permit.

yy. Emission Limitation:

VOC emissions shall not exceed 0.2 pound per ton of coal charged from the FPHC vented to the multiclone dust collector.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

zz. Emission Limitation:

Visible particulate emissions from the FPHC vented to the multiclone dust collector stacks shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Method 9 and the procedures and methods required in OAC rule 3745-17-03(B)(1).

aaa. Emission Limitation:

Lead emissions shall not exceed 0.41 ton per year as a rolling, 12-month summation for emissions units P001, P002, P901 and P902, combined.

Applicable Compliance Method:

Compliance shall be demonstrated by calculating the sum of the following:

i. waste gas stack

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

ii. charging

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor of 0.0000001 pound per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per

ton. The lead emission factor was obtained from draft AP-42, Section 12.2, Table 12.2-21, dated July 2001.

iii. pushing

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent stack test which demonstrated compliance.

iv. quench towers

Compliance shall be demonstrated by adding the current month's emissions to the emissions for the preceding 11 calendar months. Monthly emissions shall be determined by multiplying the lead emission factor, in pounds per ton, times the wet tons of coal charged per month, divided by 2,000 pounds per ton. The lead emission factor shall be calculated from the results of the most recent water analysis which demonstrated compliance.

v. bypass vent stacks:

Compliance shall be demonstrated by multiplying the lead pound per ton emission factors [Table 12.2-20 of Draft AP-42 Section 12.2 dated July, 2001] by the tons of coal charged per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton.

bbb. Emission Limitation:

The coke oven emissions from the nonrecovery coke oven batteries shall not exceed 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); or

The permittee shall monitor and record, once per day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under a negative pressure.

Applicable Compliance Method:

Compliance shall be demonstrated by the monitoring/record keeping requirements in section d)(10) of this permit.

ccc. Emission Limitation:

Lead emissions shall not exceed 0.30 pound per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 12 or 29.

ddd. Emission Limitation:

HAPs emissions (excluding HCl) shall not exceed 0.031 pound per ton of coal charged from a single HRSG bypass vent stack.

Applicable Compliance Method:

The emissions limit was derived from calculating the summation of the individual HAP pound per ton emission factors obtained from the draft AP-42, Section 12.2, Table 12.2-20, dated July 2001 and HCC test data.

eee. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.3 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

fff. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 34.15 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The annual emission limit was determined by multiplying the hourly emission limit from a single HRSG bypass vent stack times the number of allowable bypass hours (1,920) divided by 2,000 pounds per ton.

ggg. Emission Limitation:

PM/PM_{10} (filterable and condensable) emissions shall not exceed 28.8 tons per 24-months from HRSG bypass vent stacks 6 through 10 and main stack bypass venting combined for emissions units P902 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021.

Applicable Compliance Method:

The quantity of emissions at the bypass vent stacks during bypass venting shall be calculated using data from the most recent, representative stack test performed during bypass venting, using the following formula:

$$C_{BPS} = \sum_{i}^{BPS} D_i * P$$

where:

C_{BPS} = total mass of contaminant.

P = mass flow rate of contaminant, that is calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

D_i = duration, in hours, of bypass venting from individual bypass vent stack *i*.

BPS = the set of all bypass vent stacks open during bypass venting, where *i* equals each individual open bypass stack**;** during bypass venting through the FGD*, i* is all bypass stacks from which venting is occurring and/or would have occurred but for the bypass venting at the main stack.

i = individual bypass vent stack *i.*

hhh. Emission Limitation:

SO_2 emissions shall not exceed 420 pounds per hour, as a 3-hour block average, from a single HRSG bypass vent stack. For any bypass venting incident lasting 48 consecutive hours or longer, SO_2 emissions shall not exceed 323 pounds per hour as a rolling, 48-hour average, from a single HRSG bypass vent stack.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate

from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

iii. Emission Limitation:

SO_2 emissions shall not exceed 384.0 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limit was derived by multiplying the SO_2 emission factor of 20 pounds per ton times the tons of coal charged of 2,400 tons per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton. The SO_2 emission factor was derived using a material balance based on data from a stack test at the Jewell Coal and Coke Company in Vansant, VA in October,1989 and assuming a coal sulfur content of 1.3%.

jjj. Emission Limitation:

SO_2 emissions shall not exceed 2,100 pounds per hour, as a 3-hour block average, from main stack bypass venting.

SO_2 emissions shall not exceed 1,615 pounds per hour from main stack bypass venting for any bypass venting incident lasting 48 consecutive hours or longer, as a rolling 48-hour average, for each bypass venting incident.

Applicable Compliance Method:

Emissions shall be calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online) and the number of bypass vent stacks from which venting would have occurred but for the bypass venting at the main stack. Gas flowrate from the main stack may be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

kkk. Emission Limitation:

SO_2 emissions shall not exceed 260.4 tons per 24 months from HRSG bypass vent stacks 6 through 10 and main stack bypass venting combined for emissions units P902 as a rolling, 24-month total. The compliance period for this emission limit started on February 7, 2019 and did not become enforceable until February 7, 2021.

Applicable Compliance Method:

The quantity of emissions at the bypass vent stacks during bypass venting shall be calculated using data from the most recent, representative stack test performed during bypass venting, using the following formula:

$$C_{BPS} = \sum_{i}^{BPS} D_i * P$$

where:

C_{BPS} = total mass of contaminant.

P = mass flow rate of contaminant, that is calculated using the pollutant concentration from the most recent representative stack test and gas flow rate from the most recent representative flow test on a bypass vent stack (with and without redundant HRSG online). Gas flowrate from the bypass vent stacks will be less if the redundant HRSG is online. Therefore, the gas flowrate used to determine emissions shall be based on representative tests under the appropriate conditions: 1) redundant HRSG offline (no gas sharing); and 2) redundant HRSG online (with gas sharing).

D_i = duration, in hours, of bypass venting from individual bypass vent stack *i*.

BPS = bypass vent stacks open during bypass venting, where *i* equals each individual open bypass stack**;** during bypass venting through the FGD, *i* is all bypass stacks from which venting is occurring and/or would have occurred but for the bypass venting at the main stack.

i = individual bypass vent stack *i*.

lll. Emission Limitation:

NO_x emissions shall not exceed 24.0 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the NO_x emission factor of 1 pound per ton times the tons of coal charged per hour, multiplied by an estimated 20% of total gas venting. The NO_x emission factor was obtained from a EPA stack test data at Jewell Coke Co. dated September, 1992.

mmm. Emission Limitation:

NO_x emissions shall not exceed 19.20 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limit was derived by multiplying the NO_x emission factor of 1 pound per ton times the tons of coal charged of 2,400 tons per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton. The NO_x emission factor was obtained from a EPA stack test data at Jewell Coke Co. dated September, 1992.

nnn. Emission Limitation:

CO emissions shall not exceed 4.36 pounds per hour from a single HRSG bypass vent stacks.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor of 20 ppm times 28, the molecular weight of CO, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack.

ooo. Emission Limitation:

CO emissions shall not exceed 4.19 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the CO emission factor of 20 ppm, times 28, the molecular weight of CO, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack, times the total hours/year of all bypass events, divided by 2,000 pounds per ton.

ppp. Emission Limitation:

VOC emissions shall not exceed 0.93 pound per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor of 10 ppm times 12, the molecular weight of carbon, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the

fraction of the total waste gas produced expected to be vented from any single bypass stack.

qqq. Emission Limitation:

VOC emissions shall not exceed 0.90 ton per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the VOC emission factor of 10 ppm times 12, the molecular weight of carbon, divided by the 385,100,000 conversion factor, times the maximum waste gas flow, in dscf/min, times 60 minutes/hour, times 0.20, the fraction of the total waste gas produced expected to be vented from any single bypass stack, times the total hours/year of all bypass events, divided by 2,000 pounds per ton.

rrr. Emission Limitation:

HCl emissions shall not exceed 0.10 pound of HCl per ton of coal charged and 12.06 pounds per hour from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 26.

sss. Emission Limitation:

HCl emissions shall not exceed 44.02 tons per year from the waste gas stack.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the HCl emission factor, in pound per ton of coal charged, times the tons of coal charged per year, divided by 2,000 pounds per ton. The HCl emission factor shall be calculated from the results of the most recent performance test which demonstrated compliance.

ttt. Emission Limitation:

HCl emissions shall not exceed 48.24 pounds per hour from a single HRSG bypass vent stack.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 26.

uuu. Emission Limitation:

HCl emissions shall not exceed 38.59 tons per year from all HRSG bypass vent stacks combined for emissions units P901 and P902.

Applicable Compliance Method:

The emission limit was derived by multiplying the HCl emission factor of 2.01 pound per ton times the tons of coal charged per day, multiplied by an estimated 20% of total waste gas venting, times 8 days of venting per year, times the 10 vent stacks, divided by 2,000 pounds per ton. The HCl emission factor was obtained from stack test data at Haverhill Coke Company dated June, 2005.

vvv. Emission Limitation:

Hg emissions shall not exceed 0.008 pound per hour and 6.34 pounds per rolling, 12-month period from all HRSG bypass vent stacks combined for emissions unit P902.

Applicable Compliance Method:

Compliance shall be determined in accordance with the requirements of 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29. An alternative method may be employed if approved by Ohio EPA.

The emission limit was derived by utilizing the emission factor in Draft Chapter 12.2 (Coke Production) Air Pollutant Emission Factor, AP-42 Fifth Edition, Volume 1: 3.3 x 10-4 Emission data from EPA testing conducted at Jewell facility in Vansant, Virginia.

(Max production of 480 tons per day x (3.3x10-4) x 1.2 (process flow variation) / 24 hours = 0.008 pound per hour

480 tons per day x 8 days x 5 stacks x (3.3x10-4) = 6.34 pounds per year

www. Emission Limitation:

Hg emissions shall not exceed 0.01 pound per hour as a 30-day average from the waste gas stack.

Applicable Compliance Method:

Data obtained from the mercury sorbent trap monitoring system shall be used to demonstrate compliance with this emission limitation.

xxx. Emission Limitation:

Hg emissions shall not exceed 55.5 pounds per rolling, 12-month period from the waste gas stack.

Applicable Compliance Method:

Data obtained from the mercury sorbent trap monitoring system shall be used to demonstrate compliance with this emission limitation.

yyy. Emission Limitation:

PM emissions from the waste gas stack shall not exceed 0.0049E-04 gr/dscf at 10% oxygen per 40 CFR 63.7297(a).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

zzz. Emission Limitation:

Mercury emissions from the waste gas stack shall not exceed 3.0E-06 gr/dscf at 10% oxygen per 40 CFR 63.7297(b).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

aaaa. Emission Limitations:

Total Acid Gases emissions from the waste gas stack shall not exceed 0.049 gr/dscf at 10% oxygen per 40 CFR 63.7297(c).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

bbbb. Emission Limitations:

Total PAH emissions from the waste gas stack shall not exceed 4.8E-07 gr/dscf at 10% oxygen per 40 CFR 63.7297(d).

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

cccc. Emission Limitation – HRSG Bypass Stacks:

PM emissions from any HRSG Bypass Stack shall not exceed 0.032 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

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

dddd. Emission Limitation – HRSG Bypass Stacks:

Mercury emissions from any HRSG Bypass Stack shall not exceed 1.2E-05 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

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

eeee. Emission Limitation – HRSG Bypass Stacks:

Total Acid Gases emissions from any HRSG Bypass Stack shall not exceed 0.095 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

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

ffff. Emission Limitation – HRSG Bypass Stacks:

Total PAH emissions from any HRSG Bypass Stack shall not exceed 2.7E-06 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

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

gggg. Emission Limitation – HRSG Bypass Stacks:

Formaldehyde emissions from any HRSG Bypass Stack shall not exceed 0.0012 gr/dscf at 10% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

hhhh. Emission Limitation:

Mercury emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 8.9E-07 lb per ton of coke per 40 CFR 63.7290(b).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

iiii. Emission Limitation:

Total Acid Gas emissions the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.013 lb per ton of coke per 40 CFR 63.7290(c).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

jjjj. Emission Limitation:

Hydrogen Cyanide emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 0.0015 lb per ton of coke per 40 CFR 63.7290(d).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

kkkk. Emission Limitation:

Total Polycyclic Aromatic Hydrocarbons emissions from the flat push hot car vented to multiclone dust collector exhaust shall not exceed 4.0E-04 lb per ton of coke per 40 CFR 63.7290(e).

Applicable Compliance Method :

Compliance shall be demonstrated in accordance with the requirements specified in 40 CFR Part 63 Subpart CCCCC.

[Authority for term: 3745-77-07(C)(1) and 40 CFR Part 63, Subpart CCCCC]

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

a. The emission testing shall be conducted approximately 6 months after permit issuance (following the effective date for the Title V permit) and within 2.5 years months prior to permit expiration.

b. The emission testing shall be conducted to demonstrate compliance with the following allowable emission limitations.

i. Waste gas stack – coking operations: PM/PM_{10}, SO_2, NO_x; and

ii. Multiclone stack – pushing operations: Filterable PM/PM_{10}.

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

Pollutant Method of 40 CFR Part 60, Appendix A
PM Methods 1 through 5

SO2 Methods 1 through 4 and 6C

NO_x Methods 1 through 4 and 7E

Pollutant Method of 40 CFR Part 51, Appendix M
PM_{10} Methods 201 and 202

The PM rate is used as a surrogate for PM_{10} where PM_{10} emission factors are not available.

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

d. The following additional information shall be documented during all emission testing for PM, SO_2, NO_x and flow rate.

i. hourly wet coal charge rates, in tons/hr, and the number of charges per hour to allow a determination of an emission factor in pounds of pollutant per ton of coal processed;

ii. hourly coke push rates, in tons/hr, and the number of pushes per hour to allow a determination of an emission factor in pounds of pollutant per ton of coke produced;

iii. pressure drop readings approximately every 15 minutes during the test(s) for:

(a) the lime spray dryer baghouse when the main stack emissions are being tested; and

(b) each pushing multiclone when pushing emissions are being tested;

iv. lime spray dryer operating parameters when the main stack emissions are being tested; and

v. main stack baghouse cleaning cycle.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Portsmouth Local Air Agency.

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

g. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

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

a. The emission testing shall be conducted approximately within 2.5 years of permit issuance, except for the HRSG bypass vent stacks, which shall be completed once during each Title V term. The emission testing for the HRSG bypass vent stacks shall be conducted during a scheduled bypass of a heat recovery steam generator for purposes of scheduled FGD inspection and maintenance. The HRSG bypass vent stack testing is only required on one of the ten (P901 and P902) bypass vent stacks.

b. The emission testing shall be conducted to demonstrate compliance with the following allowable limitations.

i. Waste gas stack – coking operations: CO and HCl;

ii. Baghouse stack – coal charging operations: PM;

iii. HRSG bypass vent stacks: PM/PM_{10}, SO_2, and mercury; and

iv. Multiclone stack – pushing operations: SO_2, NO_x, CO and VOC (Tedlar bag sample transported to onsite CEM).

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

Pollutant Method of 40 CFR Part 60, Appendix A

PM Methods 1 through 4 and 5

CO Methods 1 through 4 and 10

SO2 Methods 1 through 4 and 6C

VOC Methods 1 through 4 and 25 or 25A

NOx Methods 1 through 4 and 7E

Mercury Methods 1 through 4 and 29

HCl Methods 1 through 4 and 26A

PM_{10} Methods 1 through 4 of 40 CFR Part 60, Appendix A; and

Methods 201 and 202 of 40 CFR Part 51, Appendix M.

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

d. The following additional information shall be documented during all emission testing for PM, SO_2, NO_x, CO, VOC, HCl, mercury and flow rate:

i. hourly wet coal charge rates, in tons/hr (and coal moisture), and the number of charges per hour to allow a determination of an emission factor in pounds of pollutant per ton of coal processed;

ii. hourly coke push rates, in tons/hr, and the number of pushes per hour to allow a determination of an emission factor in pounds of pollutant per ton of coke produced;

iii. pressure drop readings approximately every 15 minutes during the test(s) for:

(a) each charging baghouse when charging emissions are being tested;

(b) the lime spray dryer baghouse when the main stack emissions are being tested; and

(c) each pushing multiclone when pushing emissions are being tested;

iv. lime spray dryer operating parameters when the main stack emissions are being tested; and

v. main stack baghouse cleaning cycle.

e. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Portsmouth Local Air Agency.

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

g. Personnel from the Portsmouth Local Air Agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

h. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Portsmouth Local Air Agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Portsmouth Local Air Agency.

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

g) Miscellaneous Requirements

(1) None.