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

4/28/2014

Certified Mail

Mr. Timothy DeClerck
Morton Salt, Inc.
151 S. Industrial St.
Rittman, OH 44270

Facility ID: 0285020059
Permit Number: P0086478
County: Wayne

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

Dear Permit Holder:

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

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

and

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Ohio EPA DAPC, Northeast District Office at (330)425-9171.

Sincerely,

Michael W. Ahern

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

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-NEDO

PUBLIC NOTICE
4/28/2014 Issuance of Draft Air Pollution Title V Permit

Morton Salt, Inc.
151 S. Industrial St.,
Rittman, OH 44270
Wayne County
FACILITY DESC.: Spice and Extract Manufacturing, All Other Miscellaneous Chemical Product and Preparation Manufacturing
PERMIT #: P0086478
PERMIT TYPE: Renewal
PERMIT DESC: Title V renewal permit for a manufacturer of food and pharmaceutical grade salt.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: http://epa.ohio.gov/dapc/permitsonline.aspx by entering the permit # or: Amysue O'Reilly, Ohio EPA DAPC, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087. Ph: (330)425-9171

Statement of Basis for Air Pollution Title V Permit

Facility ID:	0285020059
Facility Name:	Morton Salt, Inc.
Facility Description:	Processing of Raw salt
Facility Address:	151 S. Industrial St., Rittman, OH 44270
Permit #:	P0086478, Renewal

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

☐ Lead ☒ Sulfur Dioxide ☒ Carbon Monoxide ☐ Volatile Organic Compounds ☒ Nitrogen Oxides
☒ Particulate Matter ≤ 10 microns ☒ Single Hazardous Air Pollutant ☒ Combined Hazardous Air Pollutants
☒ Maximum Available Control Technology Standard(s) ☐ GHG ☐ Title IV

A. Standard Terms and Conditions

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

Please identify the affected unit(s)and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	N/A
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	B002, B003, P031 an P034 for particulate matter

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2		MACT Subpart DDDDD	Incorporate by reference MACT, Subpart DDDDD for natural gas units B001 and B004, and coal stokers B002 and B003.
B.3		NSPS Subpart OOO	Incorporate by detail reference the requirements of Subpart OOO, Nonmetallic Mineral Processing Plant for affected “facilities” P002, P008, P009, P010, P011, P013, P014, P019, P029, P047, P048
B.4	77-07(C)		Parametric monitoring deviation investigation requirements standard to all emissions units.
B.5	77		**Insignificant Emissions Units with Requirements**

C. Emissions Unit Terms and Conditions

Key:
EU = emissions unit ID
ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)
OR = operational restriction
M = monitoring requirements
ENF = did noncompliance issues drive the monitoring requirements?
R = record keeping requirements
Rp = reporting requirements
ET = emission testing requirements (not including compliance method terms)
St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
Misc = miscellaneous requirements

EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B001 B004	0.020 #/MMBtu PE	17-10(B)(1)											Inherently clean emissions unit
B001 B004	20% opacity except as provided	17-17(A)(1)											Inherently clean emissions unit
B001 B004	Work practices	MACT Subpart DDDDD											See MACT for all MRR ET- None
B001 B004	4.7 #/hr, 20.5 TPY NOx; 0.46 #/hr, 2.0 TPY PE; 2.9 #/hr, 12.7 TPY CO; 0.02 #/hr, 0.90 TPY SOx; 0.19 #/hr, 0.83 TPY VOC	31-05(A)(3) PTI 02-8949 mod1		N	Y	Y	N	Y	Y	N	N	N	OR- Only use NG M/R –daily records of NG used Rp- days with fuel other than NG burned ET – Use of AP-42 emission factors and the actual natural gas usage for the hour or year, as appropriate
B002 B003	0.022 #/MMBtu PE	17-10(B)(1)		N	N	Y	N	Y	Y	Y	N	N	M, R, Rp – use of the COMs helps ensure compliance with this limitation M, R, Rp- bag house hours operation and downtime ET- within the second year of the permit and after initial compliance date of the boiler MACT, according to the MACT testing schedule.
B002 B003	20% opacity except as provided	17-07(A)(1)		N	N	Y	N	Y	Y	Y	N	N	M, R, Rp – use of the COMs helps ensure compliance with this limitation; Standard Appendix A language for COMs included
B002	7.0 #/MMBtu SO2	18-91 (F)		N	Y	Y	N	N	N	N	N	N	OR- use of coal with sulfur content to meet 7.0 #/MMBtu heat

B003													input M- daily grab sample of coal with monthly composite sample for heat, sulfur and ash R- of coal usage for the month and results of composite sample results Rp-quarterly reports
B002 B003	Table 2 limits for HCl, mercury, filterable PM or TSM, and CO limits from Table 2	MACT Subpart DDDDD		N	N	Y	N	Y	Y	Y	N	n	Units are existing coal-fired stoker industrial boiler located at a major source. All MACT limitations are included by reference with no changes.
B002 B003	10% opacity as 24 hr average	40 CFR 64 CAM		N	N	Y	N	Y	Y	N	N	N	M-CAM plan submitted accepting MACT opacity limitation R – standard COMs Appendix A recordkeeping for Excess Emission Reports; QIP can be required if indicator over 5% standard Rp-Quarterly Excess Emission Reports
P002	1.17 #/hr PE	31-05(A)(3) PTI 02-11084		N	Y	Y	N	Y	Y	N	N	N	
P002 P003 P007 P009 P011 P029 P031 P033 P034 P037	20% opacity, except as provided by rule	17-07(A)		N	N	Y	N	Y	Y	N	N	N	M/R- daily VE checks (Method 22-like) Rp- semi-annual VE check reports when observed and CA ET- none
P002 P003 P007 P009 P010 P013P014 P029 P047	N/A	17-11(B)		N	N	N	N	N	N	N	N	N	-limit less stringent than BAT and NSPS Subpart OOO
P002 P009 P019	0.05 gram PM/dscm		NSPS Subpart OOO	N	N	Y	N	Y	Y	N	y	n	M/R- scrubber water flow and pressure drop monitoring and recordkeeping Rp- Quarterly reports of DP and water flow deviations ET-none required by this permit, Initial compliance test done

													already. St-Reporting frequency changed from PTI required semi-annual to TV required quarterly.
P003 P011	0.02 gr PE /dscf	31-05(A)(3) PTI 02-1483 PTI 02-1798		N	N	Y	N	Y	Y	N	N	N	M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping Rp- Quarterly reports of DP and water flow deviations ET-none.
P004	3.07 #/hr H2S 5.1 mg/L brine	31-05(A)(3)		N	Y	Y	N	Y	Y	N	N	N	OR- limit brine to 605 million gallons per year M-Daily brine flow and weekly H2S content R – sufficient recordkeeping of above Rp- quarterly flow rate or H2S emission rate deviation reports
P008	0.02 grains/dscf from each control device exhaust.exceed 5.71 #/hr and 25.0 TPY from the control device exhausts, combined	31-05(A)(3)		n	n	Y	N	Y	Y	N	N	N	M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO Rp- Quarterly reports of DP and water flow deviations ET-none. Initial installation testing done in 2010.
P008	0.070 #/hr from S. Storage Stack	31-05(A)(3)		N	n	N	N	N	N	N	N	N	Use of the weekly VE checks is the only parametric monitoring available for this small EU. See write up for 20% opacity limit for S. Storage dust collector below.
P008 P011 P013P014 P047	N/A		NSPS Subpart OOO										-limit less stringent than BAT
P008 P013 P014 P029	exceed 0% opacity, as a six-minute average from the control device exhausts	31-05(A)(3)		N	N	Y	N	Y	Y	N	N	N	M/R- daily VE checks (Method 22-like) and recordkeeping Rp- semi-annual VE check reports when observed and CA ET- none
P008	20% opacity, except as provided by rule from S. Storage dust collector	17-07(A)		N	N	Y	N	Y	Y	N	N	N	M/R- weekly VE checks (Method 22-like) and recordkeeping Rp- semi-annual VE check reports when observed and CA ET- none
P009	0.05 gr/dscm and 3.3 #/hr control	31-05(A)(3) PTI 02-2205		N	N	Y	N	Y	Y	N	N	N	M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO; Pressure drop

	device exhausts, combined.												monitoring and daily recording required from baghouse. Rp- Quarterly reports of DP for baghouse and scrubber and water flow deviations from scrubber ET-none. Testing done in 2002.
P009 P010 P019	7% opacity from baghouse		NSPS OOO	N	N	Y	N	Y	Y	N	Y	Y	M/R- daily VE checks (Method 22-like) Rp- semi-annual VE check reports when observed and CA ET- none
P010	0.05 gram/dscm baghouse exhaust	31-05(A)(3) PTI 02-13921		N	N	Y	N	Y	Y	N	N	N	M/R- Pressure drop monitoring and daily recording required from baghouse. Rp- Quarterly reports of DP for baghouse deviations ET-none.
P010 P013 P014 P047	N/A	17-07(A)											Less stringent than NSPS OOO limit.
P013 P014 P029	n/a	17-08(B)		Y	n	N	N	N	N	N	N	N	
P013	9.99 ton/rolling 12-month period PE/PM-10	31-05(C)		N	Y	Y	N	Y	Y	N	N	N	OR –DP and water flow not less than 30 below average determined during last test M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO Rp- Quarterly reports of DP for and scrubber and water flow deviations from scrubber ET-none.
P014	0.0114 gr/dscf and 2.28 #/hr from scrubber PM/PM10; 0.0041 gr/dsc and 0.68 lb/hr baghouse PM/PM10	31-05(A)(3) PTI 02-19718		N	Y	Y	N	Y	Y	N	N	N	OR –DP and water flow not less than 30 below average determined during last test M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO Rp- Quarterly reports of DP for and scrubber and water flow deviations from scrubber ET-none.
P014	12.97 ton/rolling 12-month period PE/PM-10	31-05(C)		N	Y	Y	N	Y	Y	N	N	N	OR –DP and water flow not less than 30 below average determined during last test M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO Rp- Quarterly reports of DP for and scrubber and water flow deviations from scrubber

													ET-none.
P019	1.44 #/hr control device exhaust PM	31-05(A)(3) PTI 02-8438		N	N	Y	N	Y	Y	N	N	N	M/R- Pressure drop monitoring and daily recording required from baghouse. Rp- Quarterly reports of DP for baghouse deviations ET-none.
P028	0.02 grain per dscf, 1.0 pound per hour; No visible emissions from exhaust	31-05(A)(3) PTI 02-9179											M/R- Pressure drop monitoring and daily recording required from baghouse. Rp- Quarterly reports of DP for baghouse deviations ET-none. M/R- daily VE checks (Method 22-like) Rp- semi-annual VE check reports when observed and CA
P028	n/a	17-07(A)(1)		N	N	N	N	N	N	N	N	N	Less stringent than OAC rule 3745-31-05(A)
P028	n/a	17-11(B)		N	N	N	N	N	N	N	N	N	Less stringent than OAC rule 3745-31-05(A)
P028 P048	0.014 gr/dscf PM		NSPS OOO	N	N	Y	N	Y	Y	N	N	N	OR –DP and water flow not less than 30 below average determined during last test M/R- daily scrubber water flow and pressure drop monitoring and recordkeeping identical to NSPS OOO Rp- Quarterly reports of DP for and scrubber and water flow deviations from scrubber ET-none.
P031 P033	11.3 #/hr PE from P031 and P033, combined	17-11(B)		N	N	Y	N	Y	Y	N	N	N	OR – water flow not less than average determined during last test M/R- daily scrubber water flow monitoring and recordkeeping Rp- Quarterly reports of water flow deviations from scrubber ET-none.
P032 P035 P048	None	17-11(B) 17-07(A)		y	N	N	N	N	N	N	N	N	Uncontrolled PE less than 10 #/hr thus limitations in this rule do not apply
P031 P034	n/a		40 CFR 64 CAM	N	N	Y	N	Y	Y	N	N	N	OR – water flow not less than average determined during last test M/R- daily scrubber water flow monitoring and recordkeeping Rp- Quarterly reports of water flow deviations from scrubber ET-none.
P034	3.37 #/hr PE	17-11(B)		N	N	Y	N	Y	Y	N	N	N	OR – water flow not less than average determined during last test M/R- daily scrubber water flow monitoring and recordkeeping Rp- Quarterly reports of water flow deviations from scrubber ET-none.

P047	0.009 gr/dscf PE/PM10	ORC 3704.03(T)		N	N	Y	N	Y	Y	N	N	N	OR – water flow not less than average determined during last test M/R- daily scrubber water flow monitoring and recordkeeping Rp- Quarterly reports of water flow deviations from scrubber ET-none.
P047	0.009 gr/dscf, 2.16 lbs/hr and 9.46 TPY PE/PM10 0% opacity	31-05(D)(1)(a)		N	N	Y	N	Y	Y	N	N	N	OR – water flow not less than average determined during last test M/R- daily scrubber water flow monitoring and recordkeeping Rp- Quarterly reports of water flow deviations from scrubber ET-none. M/R- daily VE checks (Method 22-like) Rp- semi-annual VE check reports when observed and CA
P048	1.05 TPY PE; No visible emissions from exhaust	31-05(A)(3) PTI 02-9179											M/R- Pressure drop monitoring and daily recording required from baghouse. Rp- Quarterly reports of DP for baghouse deviations ET-none. M/R- daily VE checks (Method 22-like) Rp- semi-annual VE check reports when observed and CA

DRAFT

Division of Air Pollution Control
Title V Permit
for
Morton Salt, Inc.

Facility ID:	0285020059
Permit Number:	P0086478
Permit Type:	Renewal
Issued:	4/28/2014
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
Morton Salt, Inc.

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Authorization

Facility ID:	0285020059
Facility Description:	Processing of Raw salt
Application Number(s):	A0017223, A0017224, A0041805, A0049666
Permit Number:	P0086478
Permit Description:	Title V renewal permit for a manufacturer of food and pharmaceutical grade salt.
Permit Type:	Renewal
Issue Date:	4/28/2014
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0086477

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

Morton Salt, Inc.
151 S. Industrial St.
Rittman, OH 44270

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

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330)425-9171

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northeast District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

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

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

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

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

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

(5) Standard Term and Condition A. 30.

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

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

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

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

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

(4) The analytical techniques or methods used.

(5) The results of such analyses.

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

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

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

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

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

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

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

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

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

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

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

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

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the

probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be submitted promptly to the Ohio EPA DAPC, Northeast District Office. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

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

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

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

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

enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

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

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

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

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

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

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

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

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

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

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

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

5. Title IV Provisions

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

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

6. Severability Clause

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

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

7. General Requirements

a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permitexcept as provided pursuant to A.16 below.

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

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

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

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

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

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

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

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

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

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

11. Reopening for Cause

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

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

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

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

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

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a Responsible

Officialthat, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

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

(4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c) The permittee shall submit progress reports to the Ohio EPA DAPC, Northeast District Office concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

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

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

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

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

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

b. The permittee's current compliance status.

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

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

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

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

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

14. Permit Shield

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

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

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

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Ohio EPA DAPC, Northeast District Office with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the Ohio EPA DAPC, Northeast District Office as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

16. Emergencies

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

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

17. Off-Permit Changes

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

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

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

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

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

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

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

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

18. Compliance Method Requirements

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

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

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

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

20. Permit to Install Requirement

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

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

21. Air Pollution Nuisance

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

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

22. Permanent Shutdown of an Emissions Unit

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

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

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

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

23. Title VI Provisions

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

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

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

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

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

24. Reporting Requirements Related to Monitoring and Record Keeping 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 theOhio EPA DAPC, Northeast District Office.

b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA DAPC, Northeast District Office. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

25. Records Retention Requirements Under State Law Only

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine

whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

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

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

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the Ohio EPA DAPC, Northeast District Office in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Ohio EPA DAPC, Northeast District Office must be notified in writing of any transfer of this permit.

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

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

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

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

30. Submitting Documents Required by this Permit

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

B. Facility-Wide Terms and Conditions

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

   a) None.

2. MACT, Subpart DDDDD Requirements

   a) The following emissions units contained in this permit are subject to 40 CFR Part 63, Subpart DDDDD: B001, B002, B003 and B004. These emissions units are existing, affected sources under the final Boiler MACT rule with a compliance date of January 31, 2016. If emissions units B002 and B003 are removed prior to the initial compliance date, the facility will no longer be a major source of HAP.

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

3. NSPS Subpart OOO Requirements

   The following emissions units contained in this permit include "affected facilities" that are subject to 40 CFR Part 60, Subpart OOO, Nonmetallic Mineral Processing Plants: P002, P008, P009, P010, P011, P013, P014, P019, P029, P047, P048.

   The complete NSPS requirements, including the NSPS General Provisions, may be accessed via the internet from the Electronic Coded of Federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the Ohio EPA, Northeast District Office, Division of Air Pollution Control.

   a) Applicable Emissions Limitations and/or Control Requirements

      (1) The permittee shall comply with the applicable compliance standards required under 40 CFR Part 60, Subpart OOO including the following sections:

a.	63.670	Affected Facilities
b.	60.671	Definitions
c.	60.672	Standard for Particulate Matter
d.	60.670, Table 2	Stack Emission Limits for Affected Facilities With Capture Systems

   b) Monitoring and/or Recordkeeping Requirements

      (1) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

a.	60.674(a)	Monitoring of Operations Controlled by a Wet Scrubber
b.	60.674(c)	Monitoring of Operations Controlled by a Baghouse and Constructed, Modified, or Reconstructed on or after April 22, 2008
c.	60.674(d)	Baghouse Leak Detection System Requirements for Operations Controlled by a Baghouse and Constructed, Modified, or Reconstructed on or after April 22, 2008
d.	60.676(b)	Record keeping for Affected Facilities Constructed, Modified or Reconstructed on or after April 22, 2008
e.	60.676(c)	Initial Performance Test of Wet Scrubber Parametric Monitoring Requirements

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

c) Reporting Requirements

(1) The permittee shall submit semiannual reports and such other notifications and reports to the Ohio EPA, Northeast District Office as are required pursuant to 40 CFR Part 60, Subpart OOO, per the following sections:

a	60.676(a)	Reporting Requirements for Replacement of Existing Facility
b.	60.676(d) & (e)	Semiannual Reporting Requirements for Operations Controlled by a Wet Scrubber
c.	60.676(f)	Reporting of All Performance Tests
d.	60.676(i)	Reporting of Initial Startup for Each Affected Facility
e.	60.676(k)	Reports Sent to Ohio Which Has Been Delegated Authority

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

d) Testing Requirements

(1) The permittee shall comply with the applicable testing requirements required under 40 CFR Part 60, Subpart OOO, including the following sections:

a.	60.675	Particulate emissions and Visible Emissions Test Methods and Procedures

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

4. Parametric Monitor Deviation Investigation

a) Whenever the monitored value for any control device parameter deviates from the range(s) or minimum limit(s) established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

(1) the date and time the deviation began, if known, and/or the time discovered;

(2) the magnitude of the deviation;

(3) the date the investigation was conducted;

(4) the name(s) of the personnel who conducted the investigation; and

(5) the findings and recommendations.

b) In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the acceptable range(s), or at or above the minimum limit(s) specified in this permit, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

(1) a description of the corrective action;

(2) the date the corrective action was completed;

(3) the date and time the deviation ended;

(4) the total period of time (in minutes) during which there was a deviation;

(5) the readings immediately after the corrective action was implemented; and

(6) the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

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

5. Insignificant Emissions Units with Requirements

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

DAPC ID	EU Description	Applicable Rules
P042	60 HP emergency fire pump	OAC 3745-31-03(A)(4)(b)
P045	South Storage Building truck loading from storage pile	P0107900

C. Emissions Unit Terms and Conditions

1. B001, Natural Gas-fired Boiler

Operations, Property and/or Equipment Description:

Murray model MCF-32, 34.9 MMBtu/hr natural gas-fired back-up boiler; 27,500 lbs/hr rated steam output to provide process heat to evaporators for salt production.

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 operations(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. 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 02-08949 mod. 1 (effective 4/12/2005)	See b)(2)a, b)(2)b, b)(2)c, b)(2)d and b)(2)e. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 and 3745-17-10 and 40 CFR Part 60, Subpart Dc.
b.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb per MMBtu of actual heat input.
c.	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.
d.	40 CFR Part 60, Subpart Dc	See d)(1).
e.	OAC rule 3745-18-05(A)	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.	40 CFR 63, Subpart DDDDD (63.7480– 7575) [In accordance with 40 CFR 63.7499, this emissions unit is an existing gas-fired industrial boiler located at a major source.]	In accordance with 40 CFR 63.7500, only work practices apply to this emissions unit.

(2) Additional Terms and Conditions

a. PE shall not exceed 0.46 pound per hour and 2.0 tons per year.

b. Nitrogen oxides (NO_x) emissions shall not exceed 4.7 pounds per hour and 20.5 tons per year.

c. Carbon monoxide (CO) emissions shall not exceed 2.9 pounds per hour and 12.7 tons per year.

d. Sulfur oxides (SO_x) emissions shall not exceed 0.02 pound per hour and 0.90 ton per year.

e. Volatile organic compound (VOC) emissions shall not exceed 0.19 pound per hour and 0.83 ton per year.

c) Operational Restrictions

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

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-08949 mod. 1]

(2) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas combusted during each day.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Supbart Dc and PTI 02-08949 mod. 1]

(2) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

e) Reporting Requirements

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

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-08949 mod. 1]

(2) The permittee shall submit annual reports that specify the total emissions of particulates, NO_x and CO from this emissions unit. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 of each year and shall cover the previous calendar year.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-08949 mod. 1]

(3) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

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. Emission Limitation:

PE shall not exceed 0.020 lb per MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.4-2 (7/98), or newest revision. Compliance with the lb/MMBtu emission limitation may be determined by dividing the 1.9 lbs PM (filterable)/10^6 scf emission factor by 1,020 MMBtu/10^6 scf.

If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

b. 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:

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

c. Emission Limitation:

PE shall not exceed 0.46 pound per hour and 2.0 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or the newest revision. Compliance with the hourly PE emissions may be determined by dividing the emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input rating of the boiler of 34.9 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the annual emission limitation shall be demonstrated by multiplying the particulate emission factor of 1.9 pounds of PE per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

d. Emission Limitation:

NO_x emissions shall not exceed 4.7 pounds per hour and 20.5 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 100 lbs NO_x per million cubic feet of the natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input rating of the boiler of 34.9 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Compliance with the annual emission limitation shall be demonstrated by multiplying the NO_x emission factor of 100 pounds of NO_x per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

e. Emission Limitation:

CO emissions shall not exceed 2.9 pounds per hour and 12.7 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 84 lbs CO per million cubic feet of the natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input of the boiler of 34.9 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual emission limitation shall be demonstrated by multiplying the CO emission factor of 84 pounds of CO per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in

millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

f. Emission Limitation:

VOC emissions shall not exceed 0.19 pound per hour and 0.83 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 5.5 lbs VOC per million cubic feet of the natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input rating of the boiler of 34.9 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

Compliance with the annual emission limitation shall be demonstrated by multiplying the VOC emission factor of 5.5 pounds of VOC per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

g. Emission Limitation:

SO_x emissions shall not exceed 0.02 pound per hour and 0.90 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 0.6 lb SO_2 per million cubic feet of the natural gas combusted by 1,020 MMBtu/ 10^6 scf and multiplying by the maximum heat input rating of the boiler of 34.9 MMBtu/hr.

Compliance with the annual emission limitation shall be demonstrated by multiplying the SO_2 emission factor of 0.6 pound of SO_2 per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-08949 mod. 1]

(2) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

g) Miscellaneous Requirements

(1) None.

2. Emissions Unit Group - Coal Fired Boilers: B002, B003

EU ID	Operations, Property and/or Equipment Description
B002	Riley 140 MMBTU/hr traveling grate coal-fired boiler. Provides process heat to evaporators for salt production.
B003	Riley 140 MMBTU/hr traveling grate coal-fired boiler. Provides process heat to evaporators for salt production.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-10(C)(2)	Particulate emissions shall not exceed 0.22 lb per MMBtu actual heat input.
c.	OAC rule 3745-18-91(F)	Sulfur dioxide (SO_2) emissions shall not exceed 7.0 lbs per MMBtu actual heat input. See b)(2)a.
d.	40 CFR Part 64 (Compliance Assurance Monitoring)	See b)(2)c.
e.	40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575) [In accordance with 40 CFR 63.7499, this emissions unit is an existing coal-fired stoker industrial boiler located at a major source.]	The permittee shall not exceed the following emission limitations, except during startup and shutdown: 0.022 lb HCl per MMBtu of heat input or 0.025 lb per MMBtu of steam output; 0.0000057 lb mercury per MMBtu of heat input or 0.0000064 lb per MMBtu of steam output; 0.040 lb filterable PM per MMBtu of heat input; or 0.042 lb per MMBtu of steam

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		output; as an alternative to filterable PM, 0.000053 lb TSM per MMBtu of heat input or 0.000056 lb per MMBtu of steam output; and 160 ppm CO by volume on a dry basis corrected to 3 percent oxygen, 3-run average or 0.14 lb per MMBtu of steam output. See b)(2)d.

(2) Additional Terms and Conditions

a. The quality of the coal burned in this emissions unit shall meet the following specifications on an as-burned wet basis:

i. A sulfur content which is sufficient to comply with the allowable SO_2 emission limitation of 7.0 pounds SO_2 per MMBtu actual heat input.

ii. Compliance with the above-mentioned specifications shall be determined by using analytical results from a monthly composite sample of the grab coal samples collected during each day.

b. The continuous opacity monitoring system consists of all the equipment used to acquire data and record opacity.

[Authority for term: 40 CFR 60.2 and Appendix B to 40 CFR Part 60]

c. This emissions unit is a pollutant specific emissions unit for PE according to 40 CFR Part 64 and has developed a compliance assurance monitoring (CAM) plan.

Pursuant to 40 CFR Part 64, the permittee has submitted and the Ohio EPA has approved a CAM plan for emissions units B002 and B003 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

d. The emissions limitations, operational restrictions, monitoring, record keeping, reporting and testing requirements specified by 40 CFR Part 63, Subpart DDDDD are effective after the initial compliance date of January 31, 2016.

[Authority for term: 40 CFR Part 63, Subpart DDDDD]

c) Operational Restrictions

(1) The coal burned in this emissions unit shall have a sulfur content that, when calculated in terms of pounds of SO_2 per MMBtu of heat content, complies with the allowable SO2 emission limitation contained in this permit.

[Authority for term: OAC rule 3745-18-04(D) and OAC rule 3745-77-07(A)(1)]

(2) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect representative grab samples of the coal burned in this emissions unit on a daily basis. Each sample shall be collected from the coal loader while filling the bunker. The coal sampling shall be performed in accordance with ASTM method D2234, Standard Practice for Collection of a Gross Sample of Coal. At the end of each calendar month, all of the grab samples which were collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods to be used to determine the ash content, sulfur content, and heat content shall be the most recent version of: ASTM method D3174, Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal; ASTM method D3177, Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D5865 Standard Test Method for Gross Calorific Value of Coal and Coke, respectively. Alternative, equivalent methods may be used upon written approval from the Ohio EPA Northeast District Office.

[Authority for term: OAC rule 3745-3745-77-07(C)(1) and OAC rule 3745-18-04(D)(3)(b)]

(2) The permittee shall maintain monthly records of the total quantity of coal burned, and the results of the analyses for ash content, sulfur content, and heat content.

[Authority for term: OAC rule 3745-18-04(D) and OAC rule 3745-77-07(C)(1)]

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

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

a. percent opacity on an instantaneous (one-minute) and 6-minute block average basis;

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

c. hours of operation of the continuous opacity monitoring system while the emission unit is in operation;

d. the date, time, and hours of operation of the emissions unit without the continuous opacity monitoring system;

e. the date, time, and hours of operation of the emissions unit during any malfunction of the continuous opacity monitoring system; and

f. the reason (if known) and the corrective actions taken (if any) for each such event in (d) and (e).

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

(4) The permittee shall maintain records of:

a. the hours of operation of the emissions units and control equipment;

b. the date, time, and hours of operation of the emissions unit without the control equipment;

c. the date, time, and hours of operation of the emissions unit during any startup, shutdown, malfunction of the source, and malfunction of the control device which cause an exceedance of the opacity standard; and

d. the reason (if known) and the corrective actions taken (if any) for each such event in (b), and (c).

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

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

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

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

(6) The permittee shall maintain a written quality assurance/quality control plan for the continuous opacity monitoring system, designed to ensure continuous valid and representative readings of opacity and compliance with 40 CFR Part 60, Appendix B, Performance Specification 1. The plan shall include, at a minimum, procedures for conducting and recording daily automatic zero/span checks, provisions for conducting a

quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring accurate operation of the continuous opacity monitoring system on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

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

(7) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for particulate emissions is the opacity of the visible particulate emissions from the boiler exhaust stack as measured and recorded by the certified continuous opacity monitoring (COM) system. The visible particulate emissions indicator range is 10% opacity as a 24 hour average.

When the boiler is operating outside the indicator ranges, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions and comply with the reporting requirements specified in section e). The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan.

If a CAM indicator is outside of the designated range for more than 5% of the reporting period, the Director may require a Quality Improvement Plan for that CAM indicator in accordance with 40 CFR 64.8.

If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the Ohio EPA Northeast District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

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

(8) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

e) Reporting Requirements

(1) The permittee shall submit quarterly reports on the quality and quantity of the coal burned 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 coal burned (tons);

b. the average ash content (percent) of the coal burned;

c. the average sulfur content (percent) of the coal burned;

d. the average heat content (Btu/pound) of the coal burned; and

e. the calculated, average SO_2 emission rate (pounds SO_2 per MMBtu actual heat input) for the coal burned.

Compliance with the SO_2 emission limit shall be determined each month by calculating the SO_2 emission rate using the results of the analyses of the monthly composite coal sample for sulfur content and heat content.

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-18-04(D)]

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

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR Parts 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports documenting all instances of opacity values in excess of any limitation specified in this permit, OAC rule 3745-17-07, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude (percent opacity) of each 6-minute block average exceeding the applicable opacity limitation(s), as well as, the reason (if known) and the corrective actions taken (if any) for each exceedance.

b. These quarterly reports shall be submitted by January 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 opacity monitor;

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

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

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

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

vii. the date, time, and duration of any/each malfunction emissions unit, and/or control equipment which caused an exceedance of the opacity standard;

viii. the date, time, and duration of any downtime** of the continuous opacity monitoring system while the emissions unit was in operation; and

ix. the reason (if known) and the corrective actions taken (if any) for each event in (b)(vii) and (viii).

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

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

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.7]

(3) See 40 CFR Part 63, Subpart DDDDD (63.7480– 7575).

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. Emission Limitation:

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

Applicable Compliance Method:

Ongoing compliance with the opacity limitation contained in this permit, 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.

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

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

b. Emission Limitation:

Particulate emissions shall not exceed 0.22 lb per MMBtu actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated by performing an emission test in accordance with the methods and procedures specified in 40 CFR Part 60,

Appendix A, Methods 1 through 5 and the modifications in OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)]

c. Emission Limitation:

SO_2 emissions shall not exceed 7.0 lbs per MMBtu actual heat input.

Applicable Compliance Method:

Compliance shall be determined by using the fuel analysis records required pursuant to d)(1) and d)(2) and the applicable equation found in OAC rule 3745-18-04(F) as follows:

$ER = (1 \times 10^{6}) / H \times S \times 1.9$

where:

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

H = the heat content of the solid fuel in Btu per pound; and

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

An alternative means of calculating SO_2 emissions may be employed if such means is demonstrated to be more accurate in this specific instance than the above method to the satisfaction of the Director (the Ohio EPA Northeast District Office) provides written approval of same.

If required, the permittee shall conduct, or have conducted emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 7.0 lbs/MMBtu actual heat input in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 and the procedures in OAC rule 3745-18-04(D).

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-18-04(F)]

d. Emission Limitation:

0.022 lb HCl per MMBtu of heat input or 0.025 lb per MMBtu of steam output

0.0000057 lb Mercury per MMBtu of heat input or 0.0000064 lb per MMBtu of steam output

0.040 lb filterable PM per MMBtu of heat input; or 0.042 lb per MMBtu of steam output

As an alternative to filterable PM, 0.000053 lb TSM per MMBtu of heat input or 0.000056 lb per MMBtu of steam output

160 ppm CO by volume on a dry basis corrected to 3 percent oxygen, 3-run average or 0.14 lb per MMBtu of steam output

Applicable Compliance Method:

See 40 CFR Part 63, Subpart DDDDD (63.7480– 7575).

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

a. An emission test shall be conducted during the third year after the effective date of this permit.

After January 31, 2016, the testing frequency shall be consistent with the PM / TSM testing frequency required in 40 CFR Part 63, Subpart DDDDD.

b. The emission testing shall be conducted to demonstrate compliance with the particulate allowable mass emission rate of 0.22 lb/mmBtu actual heat input.

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

40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(9).

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

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the 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 Ohio EPA Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

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

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

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

(3) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

g) Miscellaneous Requirements

(1) None.

3. B004, Backup Boiler

Operations, Property and/or Equipment Description:

Union Iron Works 83.4 MMBtu/hr natural gas-fired back-up boiler; 70,000 lbs/hr rated steam output.

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 operations(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. 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 02-09850 modified (effective 5/24/2005)	See b)(2)a, b)(2)b, b)(2)c, b)(2)d and b)(2)e. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10 and 40 CFR Part 60, Subpart Dc.
b.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb per MMBtu of actual heat input.
c.	40 CFR Part 60, Subpart Dc	See d)(1).
d.	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).
e.	OAC rule 3745-18-05(A)	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(C)	See b)(2)b and c)(1).
g.	40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575) [In accordance with 40 CFR 63.7499, this emissions unit is an existing natural gas-fired industrial boiler located at a major source.]	See B.2. In accordance with 40 CFR 63.7500, only work practices apply to this emissions unit.

(2) Additional Terms and Conditions

a. Particulate emissions (PE) shall not exceed 1.7 pounds per hour and 3.3 tons per year.

b. Nitrogen oxides (NO_x) emissions shall not exceed 10.8 pounds per hour and 21.6 tons per year, as a rolling, 12-month period.

c. Carbon monoxide (CO) emissions shall not exceed 6.9 pounds per hour and 13.8 tons per year.

d. Sulfur oxides (SO_x) emissions shall not exceed 0.05 pound per hour and 0.10 ton per year.

e. Visible particulate emissions from the boiler stack shall not exceed 10% opacity as a 6-minute average except for a one-hour period during startup of the boiler. Visible particulate emissions during this one-hour startup period shall not exceed 20% opacity as a 6-minute average.

c) Operational Restrictions

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

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-09850 modified]

(2) The annual operating hours for this emissions unit shall not exceed 4000 hours, as a rolling, 12-month summation.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-09850 modified]

(3) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to 40 CFR Part 60, Subpart Dc, the permittee shall record and maintain records of the amount of natural gas, in cubic feet, combusted during each day.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60,Supbart Dc and PTI 02-09850 modified]

(2) The permittee shall maintain the following daily records for this emissions unit:

a. the date and time of each startup and shutdown;

b. the number of hours each day that this emissions unit is operated; and

c. the total cumulative hours of operation of this emissions unit on a rolling, 12-month basis.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-09850 modified]

(3) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

e) Reporting Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-09850 modified]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the annual hours of operation, as a rolling, 12-month summation.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-09850 modified]

(3) The permittee shall submit annual reports that specify the total emissions of particulates, NO_x and CO from this emissions unit. These reports shall be submitted to the Director (the Ohio EPA Northeast District Office) by January 31 of each year and shall cover the previous calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-09850 modified]

(4) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

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. <u>Emission Limitation</u>:

PE shall not exceed 0.020 lb per MMBtu of actual heat input.

<u>Applicable Compliance Method</u>:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.3, Table 1.4-2 (7/98), or newest revision. Compliance with the lb/MMBtu emission limitation may be determined by dividing the 1.9 lbs PM (filterable)/10^6 scf emission factor by 1,020 MMBtu/10^6 scf.

If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

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

Visible particulate emissions from the boiler stack shall not exceed 10% opacity as a 6-minute average except for a one-hour period during startup of the boiler.

Visible particulate emissions during this one-hour startup period shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

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

c. Emission Limitation:

PE shall not exceed 1.7 pounds per hour and 3.3 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or the newest revision. Compliance with the hourly PE emissions may be determined by dividing the emission factor of 1.9 pounds of particulate emissions per million cubic feet of natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input rating of the boiler of 83.4 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the annual emission limitation shall be demonstrated by multiplying the particulate emission factor of 1.9 pounds of PE per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

d. Emission Limitation:

NO_x emissions shall not exceed 10.8 pounds per hour and 21.6 tons per year, as a rolling, 12-month period.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 100 lbs NO_x per million cubic feet of the natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input rating of the boiler of 83.4 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Compliance with the annual emission limitation shall be demonstrated by multiplying the NO_x emission factor of 100 pounds of NO_x per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

e. Emission Limitation:

CO emissions shall not exceed 6.9 pounds per hour and 13.8 tons per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor of 84 lbs CO per million cubic feet of the natural gas combusted by 1,020 MMBtu/10^6 scf and multiplying by the maximum heat input of the boiler of 83.4 MMBtu/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Compliance with the annual emission limitation shall be demonstrated by multiplying the CO emission factor of 84 pounds of CO per million cubic feet of natural gas combusted by the amount of natural gas combusted per year, in millions of cubic feet (annual summation of d)(1)), and then dividing by 2000 lbs/ton.

f. Emission Limitation:

SO_x emissions shall not exceed 0.05 pound per hour and 0.10 ton per year.

Applicable Compliance Method:

Compliance shall be based upon the emission factor from AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-2 (7/98), or newest revision. Compliance with the hourly emission limitation may be determined by dividing the emission factor o 0.6 lb SO_2 per million cubic feet of the natural gas combusted by 1,020 MMBtu/ 10^6 scf and multiplying by the maximum heat input rating of the boiler of 83.4 MMBtu/hr.

To determine the annual emissions, sum the annual natural gas records kept per d)(1). Then, multiply the emission factor of 0.6 pound SO_2 per the million cubic feet of the natural gas combusted by the millions of cubic feet of natural gas combusted and divide by 2000.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1- 4, and 25.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-09850 modified]

(2) See 40 CFR Part 63, Subpart DDDDD (63.7480 – 63.7575).

g) Miscellaneous Requirements

(1) None.

4. P002, Flake System

Operations, Property and/or Equipment Description:

First Floor Mill Flake System – three salt flakers, elevators, conveyors, and baggers controlled by a Sly tray-type, wet scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 02-11084 (effective 6/11/1997)	Particulate emissions shall not exceed 1.17 lbs per hour from the wet scrubber exhaust. The requirements established pursuant to this rule also include the requirements in OAC rule 3745-17-07(A) and 40 CFR Part 60, Subpart OOO.
b.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. The presence of water vapor in the scrubber plume does not constitute visible emissions.
c.	OAC rule 3745-17-11	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
d.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	Particulate emissions shall not exceed 0.05 gram/dscm from the wet scrubber exhaust.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The wet scrubber pressure loss shall not be more than 30 percent less than the average determined during the most recent performance test demonstrating compliance with the standard.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 02-11084 and 40 CFR 60.676(d)]

(2) The wet scrubber liquid flow rate shall not be more than 30 percent less than the average determined during the most recent performance test.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 02-11084 and 40 CFR 60.676(d)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11084 and 40 CFR 60.674(a)]

(2) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11084) and 40 CFR 60.674(a)]

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

a. the differential air pressure across the scrubber, in inches of water;

b. the scrubbing liquid flow rate to the wet scrubber, in gpm; and

c. any instance when the emissions unit was in operation without the capture or control system.

[Authority for term: OAC rule 3745-77-07(C)(1) and, for d)(3)a and d)(3)b, 40 CFR 60.676(c) and (d)]

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

[Authority for term: OAC rule 3745-17-07(C)(1)]

e) Reporting Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in permit to install 02-11804, issued on June 11, 1997: **[e)(2) and e)(3)]**. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

(3) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when pressure drop across the wet scrubber did not comply with the allowable range specified above;

b. each period of time when the water flow rate to the wet scrubber did not comply with the allowable range specified above;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11084, and 40 CFR 60.676(d) and (e)]

f) Testing Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install # 02-11804, issued on June 11, 1997: f)(2). The testing requirements contained in the above-referenced permit to install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the permit to install.

[Authority for term: Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) 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. Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated through visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11084, OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

Particulate emissions shall not exceed 0.05 gram/dscm from the wet scrubber exhaust.

Applicable Compliance Method:

Compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60,

Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11084, OAC rule 3745-17-03(B)(10) and 40 CFR 60.675]

c. Emission Limitation:

Particulate emissions shall not exceed 1.17 lbs per hour from the wet scrubber exhaust.

Applicable Compliance Method:

Compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-11084]

(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 within the second year of the effective date of this permit.

b. The emission testing shall be conducted to demonstrate compliance with the particulate emissions limitation and to establish the pressure drop across the wet collector and the scrubbing liquid flow rate.

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

40 CFR Part 60, Appendix A, Methods 1 through 5

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-11084]

g) Miscellaneous Requirements

(1) None.

5. P003, Bulk Loading

Operations, Property and/or Equipment Description:

South Storage West Truck and Rail Bulk Loading including hoppers, elevators, belts, conveyors, bins and screens controlled by a wet scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 02-1483 (effective 9/26/1984)	The south storage west bulk loading elevators, conveyors, and screening operation shall be vented to the wet scrubber, which shall exhaust no more than 0.02 grain of particulate emissions (PE) per dry standard cubic foot of exhaust gases.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-08(B)	This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08(A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.
d.	OAC rule 3745-17-11(B)	The requirements established pursuant to this rule are equivalent to or less stringent than the requirements established pursuant to OAC rule 3745-31-05(A).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the scrubber, and the water flow rate to the scrubber during operation of this emissions unit, including periods of startup and shutdown. 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 on a daily basis:

a. the pressure drop across the scrubber; and

b. the water flow rate (gpm).

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

(2) The acceptable range for the pressure drop across the scrubber is 2.0 to 5.0 inches of water.

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

(3) The wet scrubber liquid flow rate shall not be more than 30 percent less than the average determined during the most recent performance test. The current acceptable minimum liquid flow rate is 8.9 gpm.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has

ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the scrubber was outside of the acceptable range;

b. each period of time when the water flow rate to the scrubber was outside of the acceptable range;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

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

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

Particulate emissions shall not exceed 0.02 grain/dscf of exhaust gases from the wet scrubber.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-1483 and OAC rule 3745-17-03(B)(10)]

(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 within 6 months of the expiration date of this permit. If the permittee elects to conduct the emission testing during the term of the permit but prior to 6 months of the expiration date, no testing will be required within 6 months of the expiration date of this permit.

b. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation and to establish the scrubbing liquid flow rate.

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

40 CFR Part 60, Appendix A, Methods 1 through 5

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most

challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

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

g) Miscellaneous Requirements

(1) None.

6. P004, H2S Stripping Tower

Operations, Property and/or Equipment Description:

H_2S Tower removes naturally occurring dissolved H_2S from process brine.

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 operations(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. 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 02–8940 mod 1 (effective March 29, 1995)	Hydrogen sulfide (H_2S) emissions shall not exceed 3.07 lbs/hr. The concentration of H_2S emitted shall not exceed 5.1 mg per liter of brine.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The maximum brine flow rate to the stripping tower shall be 1,728,000 gallons per day. The maximum annual flow of brine to the stripping tower shall be 605,000,000 gallons per year.

[Authority for term: PTI 02-8940 and OAC rule 3745-77-07(A)(3)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall determine and record the following information weekly:

a. for at least one day during each week, the hydrogen sulfide concentration measured at the inlet of the stripping tower, in mg/l;

b. at the same time the inlet is sampled, the hydrogen sulfide concentration of the brine shall be measured at the outlet, in mg/l (determined in the same manner as the inlet concentration);

c. the number of hours per day the emissions unit operated;

d. the total brine flow rate each day, in gpd;

e. the calculated concentration of hydrogen sulfide removed, in mg/l (i.e., a - b); and

f. the average lbs/hr of hydrogen sulfide emitted during each day of sampling (i.e., lbs/hr = 1 lb/453600 mg x 1 liter/0.2642 gal x the daily brine flow during the day of sampling, in gal x (e), divided by the number of hours operated per day).

[Authority for term: PTI 02-8940 and OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information:

a. each period of time when the average daily brine flow rate exceeded 1,728,000 gallons per day and the actual flow rate of such times; and

b. each period of time when the calculated concentration of H_2S removed exceeded 5.1 mg/L and the actual concentration of H_2S.

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

f) Testing Requirements

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

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

H_2S emissions shall not exceed 3.07 lbs/hr.

The concentration of H_2S emitted shall not exceed 5.1 mg per liter of brine.

<u>Applicable Compliance Method</u>:

Pipet 25 ml of 0.005 N iodine solution into a dark sample bottle. (The amount of iodine solution and the calculation in e. can change as appropriate for H_2S concentrations greater than 9 mg/L.)

At the sampling point, measure a 250 ml sample of brine. Put the sample into the dark sample bottle and cap it.

Pour the contents of the dark sample bottle into a 600 ml beaker and then acidify with 4-5 drops of glacial acetic acid (1 N).

Titrate the sample with 0.005 N sodium thiosulfate solution until the reddish-orange color of iodine becomes a pale yellow. Then add a scoop of thyodene

starch. (At this point, the solution turns blue.) Continue the titration slowly until blue color disappears.

Calculate the mg/l of H_2S using the following equation:

H_2S (mg/l) = (25 – amount of titration in d) x 0.3407

[Authority for term: PTI 02-8940 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None

7. P007 Block Press System

Operations, Property and/or Equipment Description

Block Press System - block press, brick press and TM bagging controlled by a 14,800 acfm Trimer 140-H Whirlwet scrubber

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from each stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	PE shall not exceed 2.72 lbs/hr from the wet scrubber exhaust.

(2) Additional Terms and Conditions

a. If the emissions testing for this emissions unit demonstrates that the allowable particulate emission rate from Figure II is more stringent than 2.72 lbs/hr, the permittee shall comply with the more stringent limitation. If the emission testing for this emissions unit demonstrates that the allowable particulate emission rate from Figure II is less stringent than 2.72 lbs/hr, the permittee can submit a proposed modification to the Title V permit to increase the allowable emission rate.

c) Operational Restrictions

(1) The control device shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the points of capture to the extent possible with good engineering design.

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

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the wet collector (in pounds per square inch, gauge) during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall record the pressure drop across the wet collector on a daily basis.

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

(2) The permittee shall properly install, operate, and maintain equipment to regulate the scrubbing liquid change frequency during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall document and record the drain valve frequency and duration of the wet collector once per month. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 60.376(c). The scrubber is not a continuous water flow, design type and, therefore, Ohio EPA has determined that the Section 60.674 flow monitoring requirement should not be included in this permit.

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

(3) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

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

(4) Pressure drop across the wet collector shall be maintained not less than 30% below the average determined during the most recent performance test. The current minimum pressure drop across the scrubber is 5.0 inches of water.

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

The drain valve frequency and duration shall not be less than the rate determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable particulate emission rate.

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

(5) The pressure drop monitoring device must be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with the manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.674(a)(1)]

(6) The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

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

(7) See the parametric monitoring deviation requirements in B.4.

(8) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(9) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the scrubber was outside of the acceptable range;

b. each period of time when the scrubber drain valve frequency and duration was outside the acceptable range;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

PE shall not exceed 2.72 lbs/hr from the wet scrubber exhaust.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

g) Miscellaneous Requirements

(1) None.

8. P008, Prod. Convey. Equip.

Operations, Property and/or Equipment Description:

3rd Floor Salt Conveying Equipment including the #1 Granulated System, #2 Granulated System, #3 999 System, South Storage Transfer System and Reclaim Transfer System. Each of the five systems is controlled by a Duall Hydro-Lance wet scrubber. Reclaim system hopper, screw and elevator in the South Storage Building and the transfer point from N/S storage belt to E/W belt in South Storage Building venting to the south storage baghouse.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

#1 Granulated System, #2 Granulated System, #3 999 System, South Storage Transfer System and Reclaim Transfer System. Each of the five systems is controlled by a wet scrubber.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI Admin. Mod. P0108001 Issued 5/3/2011	See b)(2)a, b)(2)b and b)(2)c.
b.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-08(B)	See b)(2)d.
e.	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-17-11(B)	See b)(2)e.
g.	OAC rule 3745-17-08(B)	See b)(2)d.
h.	OAC rule 3745-17-07(A)	See b)(2)f.

(2) Additional Terms and Conditions

a. Particulate emissions from shall not exceed 0.02 grain/dscf from each wet scrubber exhaust. Particulate emissions shall not exceed 5.71 pounds per hour from the control device exhausts, combined.

b. Particulate emissions shall not exceed 25.0 tons per year from the wet scrubber exhausts, combined.

c. Visible particulate emissions shall not exceed 0% opacity as a 6-minute average from the wet scrubber exhausts.

d. This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08(A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.

e. Particulate emissions from the south storage dust collector shall not exceed 0.070 pound per hour.

f. Visible particulate emissions from the south storage dust collector egress shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

c) Operational Restrictions

(1) The control devices shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the points of capture to the extent possible with good engineering design.

[Authority for term: P0108001 and OAC rule 3745-77-07(A)(3)]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI Admin. Mod. P0108001 issued 5/3/2011: **[d)(7)]**. The reporting requirements contained in the above-referenced permit to install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

(2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in pounds per square inch, gauge) and the scrubber liquid flow rate (in gallons per minute) during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's

recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: P0108001 and OAC rule 3745-77-07(C)(1)]

(3) The pressure drop monitoring device must be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with the manufacturer's instructions.

[Authority for term: P0108001, OAC rule 3745-77-07(C)(1) and 40 CFR 60.674(a)(1)]

The scrubbing liquid flow rate monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[Authority for term: P0108001, OAC rule 3745-77-07(C)(1)) and 40 CFR 63.674(a)(2)]

(4) The permittee shall record the pressure drop across the scrubber and the scrubber liquid flow rate on daily basis.

[Authority for term: P0108001, OAC rule 3745-77-07(C)(1)) and 40 CFR 60.676(c)]

(5) Pressure drop across the scrubber and the scrubber liquid flow rate shall be maintained not less than 30 % below the average determined during the most recent performance test.

These range(s) and/or limit(s) for the pressure drop and liquid flow rate are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Ohio EPA Northeast District Office. The permittee may request revisions to the permitted range or limit for the pressure drop or liquid flow rate based upon information obtained during future performance tests that demonstrate compliance with the allowable particulate emission rate for this/these emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

Authority for term: P0108001, OAC rule 3745-77-07(C)(1) and 60.674(a) and (c)]

(6) See the parametric monitoring deviation requirements in B.4.

(7) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the wet scrubber stacks serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item b. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

(8) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the south storage dust collector egress serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item b. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in PTI Admin. Mod. P0108001 issued 5/3/2011: **[e)(3)]**. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install

(2) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which:

a. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber(s) and/or the liquid flow rate was outside of the appropriate range and outside of the acceptable range following any required compliance demonstration;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the scrubber(s);

c. each incident of deviation described in “a” or “b” (above) where a prompt investigation was not conducted;

d. each incident of deviation described in “a” or “b” where prompt corrective action, that would bring the pressure drop and/or liquid flow rate into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. each incident of deviation described in “a” or “b” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

[Authority for term: P0108001 and OAC rule 3745-77-07(C)(1)]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the wet scrubber stacks serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.676(d) and (e)]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the south storage dust collector egress serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions shall not exceed 0% opacity as a 6-minute average from the wet scrubber exhausts.

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: P0108001 and OAC rule 3745-77-07(C)(1)]

b. Emission Limitation:

Particulate emissions from shall not exceed 0.02 grain/dscf from each wet scrubber exhaust. Particulate emissions shall not exceed 5.71 pounds per hour from the control device exhausts, combined.

Applicable Compliance Method:

If required, compliance shall be demonstrated through stack testing performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10) and modifications in 40 CFR Part 60, Subpart OOO.

[Authority for term: P0108001, OAC rule 3745-77-07(C)(1) and 40 CFR 60.675]

c. Emission Limitation:

Particulate emissions shall not exceed 25.0 tons per year from the wet scrubber exhausts, combined.

Applicable Compliance Method:

Compliance shall be demonstrated using the following equation:

E = (0.02 grain/dscf)(60 min/hr)(8760 hr/yr)(lb/7000 gr)(ton/2000 lbs)(33,260 dscfm)

where:

E= the particulate emissions from the five wet scrubber exhausts, in tons per year;

0.02 grain/dscf = the allowable particulate emissions from each wet scrubber exhaust; and

33,260 dscfm = summation of the outlet airflow for the five wet scrubbers.

[Authority for term: P0108001 and OAC rule 3745-77-07(C)(1)]

d. Emission Limitation:

Particulate emissions from the south storage dust collector shall not exceed 0.070 pound per hour.

Applicable Compliance Method:

If required, compliance shall be demonstrated through stack testing performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: P0108001 and OAC rule 3745-77-07(C)(1)]

e. Emission Limitation:

Visible particulate emissions from the south storage dust collector egress shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

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: P0108001 and OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

9. P009, 3rd Flr Mill Screening

Operations, Property and/or Equipment Description:

3rd Floor Mill Screening including bucket elevators, conveyors, crushers, bins and screens controlled by 12,200 cfm fabric filter. 2nd Floor Packaging including screw conveyors, screeners, east and west can lines controlled by 10,045 cfm Trimer wet scrubber. All NSPS OOO affected facilities are vented to the fabric filter.

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 operations(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. 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 02-2205 mod1 (effective June 24, 1998)	Particulate emissions (PE) shall not exceed 0.05 gram/dscm from the scrubber exhaust. PE shall not exceed 3.3 lbs/hr from the control device exhausts, combined. The requirements established pursuant to this rule include the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack following the wet scrubber shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-08(B)	This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08 (A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.
d.	OAC rule 3745-17-11(B)(2)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	PE shall not exceed 0.05 gram/dscm from the fabric filter exhaust. Visible particulate emissions from the baghouse exhaust shall not exceed 7% opacity as a 6-minute average.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The dust collector and scrubber shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.

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

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 02-12205, issued on June 28, 1998: **(d)(2), (d)(3), (d)(4), (d)(5), (d)(6), (d)(7), (d)(8) and d)(16)**. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the wet collector (in pounds per square inch, gauge) during operation of this emissions unit, including periods of startup and shutdown.

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

(3) The permittee shall properly operate and maintain equipment to monitor the change in pressure of the gas stream across the baghouse while the emissions unit is in operation. The monitoring device shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

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

(4) The wet scrubber pressure loss shall not be more than 30 percent less than the average determined during the most recent performance test.

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

(5) The wet scrubber drain valve frequency and duration shall not be less than the rate determined during the most recent performance test.

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

(6) The pressure differential across the fabric filter shall be maintained within a range of 1 to 6 inches water while the emissions unit is in operation.

[Authority for term: PTI 02-2205 and OAC rule 3745-77-07(C)(1)]

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

a. the differential pressure across the wet scrubber, on a daily basis; and

b. the differential pressure across the baghouse, on a daily basis.

The information required above shall be maintained in a logbook associated with this emissions unit and shall be made available upon request during future inspections.

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

(8) The permittee shall properly install, operate, and maintain equipment to regulate the scrubbing liquid change frequency during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall document and record the drain valve frequency and duration of the wet collector once per month. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 60.376(c). The scrubber is not a continuous water flow design type and, therefore, Ohio EPA has determined that the 40 CFR 60.674 flow monitoring requirement should not be included in this permit.

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

(9) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

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

(10) The pressure drop across the wet collector shall be maintained not less than 30% below the average determined during the most recent performance test. The current minimum pressure drop across the scrubber is 6.1 inches of water.

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

(11) The drain valve frequency and duration shall not be less than the rate determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

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

(12) The pressure drop monitoring devices must be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with the manufacturer's instructions.

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

(13) The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

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

(14) See the parametric monitoring deviation requirements in B.4.

(15) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(16) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

[Authority for term: OAC rule 3745-17-07(C)(1)]

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 02 - 2205, issued on June 24, 1998: (e)(2), and (e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when pressure drop across the baghouse or wet scrubber does not comply with the allowable range specified above;

b. each period of time when the scrubber drain valve duration and frequency was less than the value established during the most recent emissions test;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.676(d) and (e)]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 02-2205, issued on June 11, 2007: (2)a, (2)b and (2)c. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing

requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) 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. Emission Limitation:

Visible particulate emissions from the baghouse exhaust shall not exceed 7% opacity as a 6-minute average.

Applicable Compliance Method:

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

[Authority for term: PTI 02-2205, OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a) and 40 CFR 60.675]

b. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: PTI 02-2205, OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

c. Emission Limitation:

Particulate emissions shall not exceed 0.05 gram/dscm from each control device exhaust.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: PTI 02-2205, OAC rule 3745-77-07(C)(1) and 40 CFR 60.675]

d. Emission Limitation:

PE shall not exceed 3.3 lbs/hr from the control device exhausts, combined.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

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

g) Miscellaneous Requirements

(1) None.

10. P010, 4th Flr Blended Salt

Operations, Property and/or Equipment Description:

4th Floor Bended Salt System: Bulk storage and conveying of blended salt. All affected facilities are controlled by the 15,000 cfm baghouse

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 operations(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. 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 02-13921 (effective April 26, 2000)	The requirements established pursuant to this rule include the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
b.	OAC rule 3745-17-07(A)(1)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
c.	OAC rule 3745-17-08(B)	This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08 (A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.
d.	OAC rule 3745-17-11(B)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
e.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	The fourth floor blended salt system and the bulk storage of salt shall be vented to a fabric filter from which the particulate emissions (PE) shall not exceed 0.05 gram/dscm of exhaust gases. Visible particulate emissions from the fabric filter stack shall not exceed 7% opacity as a 6-minute average. All “affected facilities” are controlled by the baghouse and thus the building vent need not comply with this requirement.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation.

[Authority for term: OAC rule 3745-77-07(A)(3) and PTI 02-13921]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 02-13921, issued on April 26, 200: **(d)(2), (d)(3), (d)(4), (d)(5), (d)(6), (d)(7) and (d)(8)**. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

(2) The permittee shall properly operate and maintain equipment to monitor the change in pressure of the gas stream across the fabric filter 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), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-13921]

(3) The permittee shall collect and record the pressure drop across the baghouse, on a daily basis.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-13921]

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(6) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 02 -13921 issued on April 26, 2000: (e)(2) and (e)(3). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when pressure drop across the control device did not comply with the allowable range specified above;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 02 -13921 issued on April 26, 2000: f)(2)a and f)(2)b. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) 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. Emission Limitation:

Visible particulate emissions from the fabric filter stack shall not exceed 7% opacity as a 6-minute average.

Applicable Compliance Method:

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

[Authority for term: PTI 02-13921, OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a) and 40 CFR 60.675]

b. Emission Limitation:

PE shall not exceed 0.05 gram/dscm from the control device exhaust.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendinx A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: PTI 02-13921, OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(10) and 40 CFR 60.675]

g) Miscellaneous Requirements

(1) None.

11. P011 Season Salt Line

Operations, Property and/or Equipment Description
Seasoned Salt Line; Box line; 25# line, Meat Cure product packaging controlled by a 11,160 acfm Trimer Whirlwet scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 02-1798 (effective December 28, 1984)	Particulate emissions (PE) shall not exceed 0.02 grain/dscf of exhaust gas.
b.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
c.	OAC rule 3745-17-08(B)	This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08 (A)(1), OAC rule 3745-17-08 (B) is not applicable to this emissions unit.
d.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the wet collector (in pounds per square inch, gauge) during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall record the pressure drop across the wet collector on a daily basis.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-1798 and 40 CFR 60.674(a)]

(2) The permittee shall properly install, operate, and maintain equipment to regulate the scrubbing liquid change frequency during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall document and record the drain valve frequency and duration of the wet collector once per month. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 40 CFR 60.376(c). The scrubber is not a continuous water flow, design type and, therefore, Ohio EPA has determined that the Section 60.674 flow monitoring requirement should not be included in this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-1798]

(3) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-1798 and 40 CFR 60.674(a)]

(4) Pressure drop across the wet collector shall be maintained not less than 30% below the average determined during the most recent performance test. The current minimum pressure drop across the scrubber is 5.0 inches of water.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-1798]

The drain valve frequency and duration shall not be less than the rate determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(C)(1), and PTI 02-1798]

(5) The pressure drop monitoring device must be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with the manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-1798 and 40 CFR 60.674(a)(1)]

(6) The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-1798]

(7) See the parametric monitoring deviation requirements in B.4.

(8) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(9) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the scrubber was outside of the acceptable range;

b. each period of time when the scrubber drain valve frequency and duration was outside the acceptable range;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

PE shall not exceed 0.02 grain/dscf of exhaust gas from the wet scrubber.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

g) Miscellaneous Requirements

(1) None.

12. P013, 4th Flr Pellet System

Operations, Property and/or Equipment Description:

Fourth floor pellet system processing pelletized salt products: Elevators, screens, conveyors, crushers, binscontrolled by a Trimer wet scrubber (South Pellet Scrubber).

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 02-19718 (effective 10/7/2004)	See b)(2)a, b)(2)b and b)(2)c.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-17-08(B)	See b)(2)d.
f.	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD	See b)(2)e.

(2) Additional Terms and Conditions

a. Particulate emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

PM-10 emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

b. Particulate emissions from the fourth floor pellet system elevators, screens, conveyors, crushers, and bins shall all be vented to a control device.

c. Visible particulate emissions from the wet scrubber stack shall not exceed 0% opacity, as a 6-minute average.

d. This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08(A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.

e. Particulate emissions shall not exceed 9.99 tons as a rolling, 12-month summation from the wet scrubber exhaust. PM-10 emissions shall not exceed 9.99 tons as a rolling, 12-month summation from the wet scrubber exhaust.

c) Operational Restrictions

(1) While the emissions unit is in operation, the pressure differential across the wet scrubber shall be maintained not less than 30% below determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 02-19718 and 40 CFR 60.676(d)]

(2) The frequency and duration of the drain valves shall not be less than the rate determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-19718]

(3) The dust collector shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-19718]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and recordkeeping requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 02-19718, effective 10/7/2004: **[d)(7) and d)(8)]**. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install

(2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the wet collector (in pounds per square inch, gauge) during operation of this emissions unit.

The permittee shall collect and record the pressure drop across the wet scrubber on a daily basis.

The information required above shall be maintained in a logbook associated with this emissions unit and shall be made available upon request during future inspections.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718 and 40 CFR 60.674(a)]

(3) The permittee shall document and record the drain valve frequency and duration of the wet collector once per month. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 40 CFR 60.376(c). The scrubber is not a continuous water flow, design type and, therefore, Ohio EPA has determined that the section 60.674 flow monitoring requirement should not be included in this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

(4) The monitoring device shall be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and shall be calibrated on an annual basis in accordance with manufacturer's instructions. The monitoring device shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718 and 40 CFR 60.674(a)]

(5) The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

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

(6) See the parametric monitoring deviation requirements in B.4.

(7) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(8) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 02-19718, effective 10/7/2004: **[e)(3)]**. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

(2) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the scrubber was outside of the acceptable range;

b. each period of time when the scrubber drain valve frequency and duration was outside the acceptable range

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

(3) The permittee shall submit semiannual written reports which:

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions from the wet scrubber stack shall not exceed 0% opacity, as a 6-minute average.

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 rule 3745-77-07(C)(1) and PTI 02-19718]

b. Emission Limitation:

Particulate emissions shall not exceed 0.0114 grain/dscf, 2.28 lbs/hr and 9.99 tons as a rolling, 12-month summation from the wet scrubber exhaust.

Applicable Compliance Method:

If required, compliance with the short-term emission limitations shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

Compliance with the long-term emission limitation shall be demonstrated using the following equation:

E = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(23,268 dscfm)

where:

E= the particulate emissions from the wet scrubber, in tons per 12-month period;

Operating gr/dscf = 0.0114 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable particulate emission rate;

Operating hrs/yr = 8760 hrs/12-month period, or the actual hours of operation during the previous 12-month period; and

23,268 dscfm = maximum air flow from the wet scrubber.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

c. Emission Limitation:

PM-10 emissions shall not exceed 0.0114 grain/dscf, 2.28 lbs/hr and 9.99 tons as a rolling, 12-month summation from the wet scrubber exhaust.

Applicable Compliance Method:

If required, compliance with the short-term emission limitations shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 51, Appendix M, Method 201.

Compliance with the long-term emission limitation shall be demonstrated using the following equation:

E = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(23,268 dscfm)

where:

E= the particulate emissions from the wet scrubber, in tons per 12-month period;

Operating gr/dscf = 0.0114 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable particulate emission rate;

Operating hrs/12-month period = 8760 hrs/yr, or the actual hours of operation during the previous 12-month period; and

23,268 dscfm = maximum air flow from the wet scrubber.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

g) Miscellaneous Requirements

(1) None.

13. P014, Conveyors and Pellet Presses

Operations, Property and/or Equipment Description:

Second floor pellet system controlled by a Tri- Mer wet scrubber (North Pellet scrubber) and MAC baghouse in parallel.

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 operations(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. 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 02-19718 (effective 10/7/2004)	See b)(2)a, b)(2)b, b)(2)c and b)(2)d.
b.	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD	See b)(2)f.

(2) Additional Terms and Conditions

a. Particulate emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

PM-10 emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

Particulate emissions shall not exceed 0.0041 grain/dscf and 0.68 lb/hr from the baghouse exhaust.

PM-10 emissions shall not exceed 0.0041 grain/dscf and 0.68 lb/hr from the baghouse exhaust.

b. Particulate emissions from the second floor pellet system elevators, screens, conveyors, crushers, and bins shall all be vented to a control device.

c. Visible particulate emissions from the wet scrubber stack shall not exceed 0% opacity, as a 6-minute average.

d. Visible particulate emissions from the baghouse stack shall not exceed 7% opacity, as a 6-minute average.

e. This facility is not located in an Appendix A area. Therefore, per OAC rule 3745-17-08(A)(1), OAC rule 3745-17-08(B) is not applicable to this emissions unit.

f. Particulate emissions shall not exceed 12.97 tons as a rolling, 12-month summation from both control devices.

PM-10 emissions shall not exceed 12.97 tons as a rolling, 12-month summation from both control devices.

c) Operational Restrictions

(1) While the emissions unit is in operation, the pressure differential across the wet scrubber shall be maintained not less than 30% below the average determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 02-19718 and 40 CFR 60.676(d)]

(2) The frequency and duration of the drain valves shall not be less than the rate determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-19718]

(3) The control devices shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the point(s) of capture to the extent possible with good engineering design.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-19718]

(4) The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water while the emissions unit is in operation, or the range determined during

the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 02-19718]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in permit to install 02-19718, issued on October 7, 2004: **(d)(9) and (d)(10)**. The monitoring and record keeping requirements contained in the above-referenced permit to install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the permit to install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall properly operate and maintain equipment to monitor the change in pressure of the gas stream across the wet scrubber while the emissions unit is in operation.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718 and 40 CFR 60.674(a)]

(3) The permittee shall properly operate and maintain equipment to monitor the change in pressure of the gas stream across the baghouse while the emissions unit is in operation. The monitoring device shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

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

a. the differential air pressure across the wet scrubber, on a daily basis; and

b. the differential air pressure across the baghouse, on a daily basis.

The information required above shall be maintained in a logbook associated with this emissions unit and shall be made available upon request during future inspections.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718 and 40 CFR 60.674(a)]

(5) The permittee shall document and record the drain valve frequency and duration of the wet collector once per month. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 40 CFR 60.376(c). The scrubber is not a continuous water flow, design type and, therefore, Ohio EPA has determined that the section 40 CFR 60.674 flow monitoring requirement should not be included in this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

(6) The monitoring devices shall be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and shall be calibrated on an annual basis in accordance with manufacturer's instructions. The monitoring device shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718 and 40 CFR 60.674(a)]

(7) The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

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

(8) See the parametric monitoring deviation requirements in B.4.

(9) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(10) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The permittee shall also note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous

during the observation period (or, if known, continuous during the operation of the emissions unit).

For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when emissions unit is in operation). If a subsequent check indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emissions point until such time as there are 30 consecutive operating days of normal visible emissions.

[Authority for term: OAC rule 3745-17-07(C)(1)]

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in permit tol install 02-19718, issued on October 7, 2004: **[e)(3)]**. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

(2) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when pressure drop across the baghouse or wet scrubber does not comply with the allowable range specified above;

b. each period of time when the scrubber drain valve duration and frequency was less than that during the most recent emissions test;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

a. Emission Limitation:

Visible particulate emissions from the wet scrubber stack shall not exceed 0% opacity, as a 6-minute average.

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 rule 3745-77-07(C)(1) and PTI 02-19718]

b. Emission Limitation:

Visible particulate emissions from the baghouse stack shall not exceed 7% opacity, as a 6-minute average.

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 rule 3745-77-07(C)(1) and PTI 02-19718]

c. Emission Limitation:

Particulate emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

Particulate emissions shall not exceed 0.0041 grain/dscf and 0.68 lb/hr from the baghouse exhaust.

Particulate emissions shall not exceed 12.97 tons as a rolling, 12-month summation from both control devices.

Applicable Compliance Method:

If required, compliance with the short-term particulate emission limitations shall be demonstrated in accordance with the methods and procedures specified in 40

CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

Compliance with the long-term particulate emission limitation shall be demonstrated using the following equations:

E = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(23,268 dscfm)

where:

E= the particulate emissions from the wet scrubber, in tons per 12-month period;

Operating gr/dscf = 0.0114 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable particulate emission rate;

Operating hrs/yr = 8760 hrs/12-month period, or the actual hours of operation during the previous 12-month period; and

23,268 dscfm = maximum air flow from the wet scrubber.

Eb = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(19,390 dscfm)

where:

Eb= the particulate emissions from the baghouse, in tons per 12-month period;

Operating gr/dscf = 0.0041 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable particulate emission rate;

Operating hrs/yr = 8760 hrs/12-month period, or the actual hours of operation during the previous 12-month period; and

19,390 dscfm = maximum air flow from the baghouse.

Et = Es + Eb

where:

Et = the total particulate emissions from the baghouse and wet scrubber, in tons per 12-month period.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-19718, OAC rule 3745-17-03(B)(10) and 40 CFR 60.675]

d. Emission Limitation:

PM-10 emissions shall not exceed 0.0114 grain/dscf and 2.28 lbs/hr from the wet scrubber exhaust.

PM-10 emissions shall not exceed 0.0041 grain/dscf and 0.68 lb/hr from the baghouse exhaust.

PM-10 emissions shall not exceed 12.97 tons as a rolling, 12-month summation from both control devices.

Applicable Compliance Method:

If required, compliance with the short-term PM-10 emission limitations shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 51, Appendix M, Method 201.

Compliance with the long-term PM-10 emission limitation shall be demonstrated using the following equations:

E = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(23,268 dscfm)

where:

E= the PM-10 emissions from the wet scrubber, in tons per 12-month period;

Operating gr/dscf = 0.0114 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable PM-10 emission rate;

Operating hrs/yr = 8760 hrs/12-month period, or the actual hours of operation during the previous 12-month period; and

23,268 dscfm = maximum air flow from the wet scrubber.

Eb = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lbs)(19,390 dscfm)

where:

Eb= the PM-10 emissions from the baghouse, in tons per 12-month period;

Operating gr/dscf = 0.0041 gr/dscf, or the grain loading determined during the last emission test that demonstrated the emissions unit was in compliance with the allowable PM-10 emission rate;

Operating hrs/yr = 8760 hrs/12-month period, or the actual hours of operation during the previous 12-month period; and

19,390 dscfm = maximum air flow from the baghouse.

Et = Es + Eb

where:

Et = the total PM-10 emissions from the baghouse and wet scrubber, in tons per 12-month period.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-19718]

g) Miscellaneous Requirements

(1) None.

14. P019, 999 Storage System

Operations, Property and/or Equipment Description:

High Purity Salt Storage and Handling System: Bins, elevators, conveyors, and screens

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 operations(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. 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 02-8438 (effective September 14, 1994)	Particulate emissions (PE) shall not exceed 1.44 lbs/hr. The high purity salt storage and handling system - bins, elevators, conveyors, and screens shall all be vented to a fabric filter, from which the PE shall not exceed 0.021 gr/dscf of exhaust gases. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
b.	OAC rule 3745-17-07(A)(1)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
c.	OAC rule 3745-17-11(B)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to 40 CFR Part 60, Subpart OOO.
d.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	Visible particulate emissions from the fabric filter stack shall not exceed 7% opacity, as a 6-minute average.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 02-8438, issued on September 14, 1994: d)(2), d)(3), d)(4), d)(5) and d)(6). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the permit to install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall properly operate and maintain equipment to monitor the change in pressure of the gas stream across the fabric filter 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), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-8438]

(3) The permittee shall collect and record the pressure drop across the baghouse, on a daily basis. The acceptable range for the pressure drop across the baghouse is 1.0 to 6.0 inches of water.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-8438]

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(6) The differential pressure range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

(7) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install 02-8438, issued on September 14, 1994: e)(2). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the permit to install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouse was outside of the range specified by the manufacturer;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following testing requirements are as stringent as or more stringent than the testing requirements contained in Permit to Install 02-8438, issued on September 14, 1994: (2)a, (2)b and (2)c. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) 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. <u>Emission Limitation</u>:

Visible particulate emissions from the fabric filter stack shall not exceed 7% opacity, as a 6-minute average.

<u>Applicable Compliance Method</u>:

Compliance shall be demonstrated through visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: PTI 02-8438, OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a) and 40 CFR 60.675]

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

PE shall not exceed 0.021 g/dscf from the control device exhaust.

Applicable Compliance Method:

Compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: PTI 02-8438, OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(10) and 40 CFR 60.675]

c. Emission Limitation:

PE shall not exceed 1.44 lbs/hr from the control device exhaust.

Applicable Compliance Method:

Compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 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 within 6 months of the expiration date of this permit. If the permittee elects to conduct the emission testing during the term of the permit but prior to 6 months of the expiration date, no testing will be required within 6 months of the expiration date of this permit.

b. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation.

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

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most

challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

g) Miscellaneous Requirements

(1) None.

15. P028, High Purity Salt Packaging System

Operations, Property and/or Equipment Description:

Automated packaging system including a scalping screen, product bins, and Bemis bagger for high purity and granulated salt products controlled by a baghouse

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 operations(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. 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 02-9179 (effective January 24, 1996)	The automated packaging system, belts, and elevators shall all vent into the baghouse, from which particulate emissions (PE) shall not exceed 0.02 grain per dscf and 1.0 pound per hour. There shall be no visible particulate emissions from the exhaust gases of the baghouse.
b.	OAC rule 3745-17-07(A)(1)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05.
c.	OAC rule 3745-17-11(B)	The requirements established pursuant to this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

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

(2) The permittee shall record the pressure drop, in inches of water, across the baghouse on daily basis. The acceptable range for the pressure drop across the baghouse is 0.5 to 4.0 inches of water.

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

(3) The differential pressure range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has

ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouse was outside of the allowable range;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

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

There shall be no visible particulate emissions from the exhaust gases of the baghouse.

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 22.

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

b. Emission Limitation:

PE shall not exceed 0.02 grain/dscf from the control device exhaust.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

c. Emission Limitation:

PE shall not exceed 1.0 pound per hour from the control device exhaust.

Applicable Compliance Method:

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

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

g) Miscellaneous Requirements

(1) None.

16. P029, Entoleter Pulverizer

Operations, Property and/or Equipment Description:

Entoleter Pulverizer including screw conveyors, bins, hoppers, scalping screens, pulverizer and bagging stations controlled by a 2500 acfm cartridge filter. Bagging station formerly P036.

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 operations(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. 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 paragraph 3745-31-05(A)(3), as effective 11/30/01 PTI P0106972 issued 12/6/2010	See b)(2)a, b)(2)b and b)(2)d.
b.	OAC paragraph 3745-31-05(A)(3), as effective 12/01/06 PTI P0106972 issued 12/6/2010	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM_{10} emissions emitted by this emissions unit since the potential to emit after controls for PM_{10} is less than 10 tons/year. See b)(2)e.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule. See b)(2)f.
d.	OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
e.	OAC rule 3745-17-07(B)	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart OOO.
g.	40 CFR Part 60, Subpart OOO (60.670 – 60.676)	Particulate emissions (PE) shall not exceed 0.014 gr/dscf from the control device egress. See the requirements in B.3.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 31, 2001, in this permit. On December 1, 2006, paragraph (A)(3) OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. Visible PE from the control device egress shall not exceed 0% opacity, as a 6-minute average.

c. The emissions from this emissions unit shall be vented to a cartridge filter control device at all times the emissions unit is in operation. The cartridge filter control device shall be operated with a sufficient volumetric flow rate to minimize or eliminate visible particulate emissions at the points of capture to the extent possible with good engineering design.

d. PE shall not exceed 0.30 lb/hr and 1.32 tons per year from the control device egress.

e. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

f. The PE requirements established by this rule are less stringent than the requirements established under OAC rule 3745-31-05(A)(3)(a). On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by US EPA as a revision

to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the US EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once US EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then the requirements of OAC rule 3745-17-07(A) and all associated terms and conditions become effective.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the cartridge filter control device when the controlled emissions unit is in operation, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The acceptable pressure drop shall be based upon any required performance testing conducted and the appropriate range is established to demonstrate compliance.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

(2) The acceptable range for the pressure drop across the cartridge filter control device shall be based upon pressure drop range and/or limit established during the most recent performance test. The current acceptable range is 2 to 8 inches of water.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

(3) The permittee shall record the pressure drop across the cartridge filter control device on daily basis.

(4) See the parametric monitoring deviation requirements in B.4.

(5) This acceptable range or limit on the pressure drop across the cartridge filter control device is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the permitted limit or range for the pressure drop based upon information obtained during future testing that demonstrate compliance with the allowable particulate emission rate for the controlled emissions unit(s). In addition, approved revisions to the range or limit will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative permit modification.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

(6) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(7) The permittee shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22. The 30-minute visible emissions inspection shall be conducted while the cartridge filter control device is operating. The test is successful if no visible emissions are observed.

If any visible emissions are observed, the permittee shall initiate corrective action within 24 hours to return the cartridge filter control device to normal operation. The permittee shall record each 30-minute visible emissions inspection, including the date and any corrective actions taken, in the required logbook. The logbook shall be kept onsite and made available in an electronic or hard copy format to the Director or representative upon request.

If the permittee chooses to comply with the control device monitoring requirements in 40 CFR 60, Subpart OOO by the use of a bag leak detection system on the cartridge filter exhaust, then d)(1) is no longer required.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.674(c)]

(8) As an alternative to the periodic visible emissions inspections specified in d)(7), the permittee may use a bag leak detection system. If installed, the permittee must install, operate and maintain the bag leak detection system according to 40 CFR 60.674(d)(1).

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.674(d)(1)]

(9) If a bag leak detection system is installed, the permittee shall develop and submit to the Ohio EPA Northeast District Office for approval of a site-specific monitoring plan for each bag leak detection system that includes the items in 40 CFR 60.674(d)(2). The permittee must operate and maintain the bag leak detection system according to the site specific monitoring plan at all times.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.674(d)(2)]

(10) If a bag leak detection system is installed, the permittee shall initial procedures to determine the cause of every bag leak detection system alarm within 1 hour of the alarm. Except as provided by 40 CFR 60.674(d)(2)(vi), the permittee shall alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

a. inspecting the control device for air leaks, torn or broken bags or filter media, or any other conditions that may cause an increase in PM emission;

b. sealing off defective bags or filter media;

c. replacing defective bags or filter media;

d. sealing off a defective fabric filter or filter media compartment;

e. cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

f. shutting down the process producing the PM emissions.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.674(d)(3)]

(11) If a bag leak detection system is installed, the permittee shall keep the records specified below in the required logbook. The logbook shall be kept onsite and made available in an electronic or hard copy format to the Director or representative upon request. The records shall include:

a. records of the bag leak detection system output;

b. records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

c. the date and time of all bag leak detection system alarms, the time that the procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.676(b)(1) and (b)(2)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time (start time and date, and end time and date) when the pressure drop across the cartridge filter control device was outside of the allowable range;

b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the cartridge filter control device;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted;

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken;

e. each incident when visible emissions were observed during the quarterly visible emissions inspection and the associated corrective action.

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

If the permittee chooses to comply with the control device monitoring requirements in 40 CFR 60, Subpart OOO by the use of a bag leak detection system on the cartridge filter exhaust, then e)(1)e is no longer required.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

(2) If a bag leak detection system is installed, the permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. the date and time of all bag leak detection system alarms;

b. the cause, if known, and the corrective action taken to remedy the alarm; and

c. the duration of the alarm event.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

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. Emission Limitation:

Visible PE from the control device egress shall not exceed 0% opacity, as a 6-minute average.

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 rule 3745-77-07(C)(1) and PTI P0106972]

b. Emission Limitation:

PE shall not exceed 0.014 gr/dscf from the control device egress.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI P0106972 and 40 CFR 60.675]

c. Emission Limitation:

PE shall not exceed 0.30 lb/hr from the dry collector egress.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

d. Emission Limitation:

PE shall not exceed 1.32 tons per year from the dry collector egress.

Applicable Compliance Method:

Compliance with the long-term emission limitation shall be demonstrated using the following equation:

E = (Operating gr/dscf)(60 min/hr)(Operating hrs/yr)(lb/7000 gr)(ton/2000 lb)(2,500 dscfm)

where:

E= the particulate emissions from the dry collector egress, in tons per year;

Operating gr/dscf = 0.014 gr/dscf, or the grain loading determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate;

Operating hrs/yr = 8760 hrs/yr, or the actual hours of operation; and

2,500 dscfm = maximum air flow from the dry collector.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0106972]

e. Emission Limitation:

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

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 rule 3745-77-07(C)(1) and PTI P0106972]

g) Miscellaneous Requirements

(1) None.

17. P031, North Filter Wheel

Operations, Property and/or Equipment Description:

North Filter Wheel equipped with a natural gas burner less than 10 MMBtu/hr for drying of granulated salt slurry. The emissions unit is controlled by water sprays in the North Wet End stack.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a, b)(2)b and b)(2)c.
c.	40 CFR Part 64 (Compliance Assurance Monitoring)	See b)(2)d.

(2) Additional Terms and Conditions

a. Particulate emissions shall not exceed 11.33 pounds per hour from emissions units P031 and P033, combined.

b. If the emission testing for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 11.33 lbs/hr, the permittee shall comply with the more stringent limitation. If the emission testing for this emissions unit demonstrates that the allowable emission rate from Figure II is less stringent than 11.33 lbs/hr, the permittee can submit a proposed modification to the Title V permit to address the increase in the allowable emission rate.

c. Pursuant to OAC rule 3745-17-11(A)(3), this emissions unit is similar to emissions unit P032, Middle Filter Wheel and emissions unit P033, South Filter Wheel, and is united either physically or operationally, or otherwise located in close proximity to each other. If emission testing determines that the

uncontrolled mass emission rate of P032 is greater than 10 pounds per hour, the allowable emissions rate according to Figure II shall be determined with the combined uncontrolled emission rate of emissions units P031, P032 and P033, combined.

d. This emissions unit is a pollutant specific emissions unit for PE according to 40 CFR Part 64 and has developed a CAM plan.

Pursuant to 40 CFR Part 64, the permittee has submitted and the Ohio EPA has approved a compliance assurance monitoring (CAM) plan for emissions unit P031 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator is the water spray flow rate.

The water spray liquid flow rate shall not be less than the average determined during the most recent performance test.

When the emissions unit is operating outside the indicator ranges, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions and comply with the reporting requirements specified in section e). The emissions unit and control equipment shall be operated in accordance with the approved CAM plan, or any approved revision of the CAM plan.

If a CAM indicator is outside of the designated range for more than 5% of the reporting period, the Director may require a Quality Improvement Plan for that CAM indicator in accordance with 40 CFR 64.8.

If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the Ohio EPA Northeast District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

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

(2) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the water sprays. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design

scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The scrubbing liquid flow meter shall be installed within 90 days of the effective date of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.674(a)]

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

a. an identification of the exhaust stack to which the emissions unit is venting;

b. the scrubbing liquid flow rate to the wet scrubber, in gpm; and

c. any instance when the emissions unit was in operation without the capture or control system.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c.. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

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

a. each period of time when the scrubbing liquid flow rate to the control device was less than the average determined during the most recent performance test;

b. any period of time when the emissions unit(s) was in operation without the capture or control system;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted; and

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken.

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

f) Testing Requirements

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

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

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

<u>Applicable Compliance Method</u>:

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

[Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a)]

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

Particulate emissions shall not exceed 11.33 pounds per hour from emissions units P031 and P033, combined.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)].

(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 within 120 days of the effective date of this permit.

The emission testing shall be conducted in conjunction with P033, P034 and P035 to demonstrate compliance with the particulate emission limitation and to establish the water spray liquid flow rate for the North Stack

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

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

c. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

e. Personnel from the Ohio EPA Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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 Ohio EPA Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northeast District Office.

g) Miscellaneous Requirements

(1) None.

18. P032, Middle Filter Wheel

Operations, Property and/or Equipment Description:

Middle Filter Wheel equipped with a natural gas burner less than 10 MMBtu/hr for drying of granulated salt slurry. The emissions unit is controlled by water sprays in the North Wet End stack, Middle stack or South stack.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a and b)(2)b.

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11does not apply to existing emissions units located in Wayne County. Therefore, to ensure that Figure II will not be applicable, the uncontrolled mass rate of particulate emissions is limited to less than 10 pounds per hour.

b. If emission testing for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 10 lbs/hour, the permittee shall comply with the more stringent limitation. Pursuant to OAC rule 3745-17-11(A)(3), this emissions unit is similar to P031, North Filter Wheel and P033, South Filter Wheel, and is united either physically or operationally, or otherwise located in close proximity to each other. If emission testing determines that the uncontrolled mass emission rate of P032 is greater than 10 pounds per hour, the allowable emissions rate according to Figure II shall be determined with the uncontrolled emission rate of P031, P032 and P033, combined.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the water sprays. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The scrubbing liquid flow meter shall be installed within 90 days of a determination that the uncontrolled mass emission rate is greater than 10 lbs per hour.

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

(2) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the water spray liquid flow rate shall not be less than the average determined during the most recent performance test.

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

(3) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall collect and record the following information each day:

a. an identification of the exhaust stack to which the emissions unit is venting;

b. the scrubbing liquid flow rate to the water sprays, in gpm; and

c. any instance when the emissions unit was in operation without the capture or control system.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 10 lbs/hour, the permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 10 lbs/hour, the permittee shall submit semiannual written reports that identify:

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

(2) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time when the scrubbing liquid flow rate to the control device was less than the average determined during the most recent performance test;

b. any period of time when the emissions unit(s) was in operation without the capture or control system;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted; and

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken.

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

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

The uncontrolled particulate emissions shall not exceed 10 pounds per hour or, if applicable, the emissions limitation established pursuant to OAC rule 3745-17-11, Figure II.

Applicable Compliance Method:

If required compliance with the particulate emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 5 and the specifications in OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

g) Miscellaneous Requirements

(1) None.

19. P033, South Filter Wheel

Operations, Property and/or Equipment Description:

South Filter Wheel equipped with a natural gas burner less than 10 MMBtu/hr for drying of high purity salt slurry. The emissions unit is controlled by water sprays in the North Wet End stack, Middle stack or South stack.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a, b)(2)b and b)(2)c.

(2) Additional Terms and Conditions

a. Particulate emissions shall not exceed 11.33 pounds per hour from emissions units P031 and P033, combined.

b. If the emission testing for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 11.33 lbs/hour, the permittee shall comply with the more stringent limitation. If the emission testing for this emissions unit demonstrates that the allowable emission rate from Figure II is less stringent than 11.33 lbs/hr, the permittee can submit a proposed modification to the Title V permit to address the increase the allowable emission rate.

c. Pursuant to OAC rule 3745-17-11(A)(3), this emissions unit is similar to P032, Middle Filter Wheel and P031, North Filter Wheel, and is united either physically or operationally, or otherwise located in close proximity to each other. If emission testing determines that the uncontrolled mass emission rate of P032 is greater than 10 pounds per hour, the allowable emissions rate according to Figure II shall be determined with the combined uncontrolled emission rate of P031, P032 and P033, combined.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the water sprays. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The scrubbing liquid flow meter shall be installed within 90 days of the effective date of this permit.

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

(2) The water spray liquid flow rate shall not be less than the average determined during the most recent performance test.

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

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

a. an identification of the exhaust stack to which the emissions unit is venting;

b. the scrubbing liquid flow rate to the water sprays, in gpm; and

c. any instance when the emissions unit was in operation without the capture or control system.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

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

a. each period of time when the scrubbing liquid flow rate to the control device was less than the average determined during the most recent performance test;

b. any period of time when the emissions unit(s) was in operation without the capture or control system;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted; and

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken.

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

f) Testing Requirements

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

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

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

Particulate emissions shall not exceed 11.33 pounds per hour from emissions units P031 and P033, combined.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)].

(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 within 120 days of the effective date of this permit.

The emission testing shall be conducted in conjunction with P031, P034 and P035 to demonstrate compliance with the particulate emission limitation and to establish the water spray liquid flow rate for the North Stack

b. Emission testing shall also be conducted within 240 days of the effective date of this permit with emissions unit P033 venting to the South Stack or Middle Stack.

The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation and to establish the water spray liquid flow rate for South Stack and the Middle Stack.

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

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or

approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

g) Miscellaneous Requirements

(1) None.

20. P034, Granulated Cascade Cooler

Operations, Property and/or Equipment Description:

Bucket elevator and conveying used for cooling granulated salt from the north and middle filter wheels. The emissions unit is controlled by water sprays in the North Wet End stack.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a, b)(2)b and b)(2)c.
c.	40 CFR Part 64 (Compliance Assurance Monitoring)	See b)(2)d.

(2) Additional Terms and Conditions

a. Particulate emissions shall not exceed 8.92 pounds per hour.

b. If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 8.92 lbs/hour, the permittee shall comply with the more stringent limitation. If the emission testing for this emissions unit demonstrates that the allowable emission rate from Figure II is less stringent than 8.92 lbs/hr, the permittee can submit a proposed modification to the Title V permit to address the increase in the allowable emission rate.

c. Pursuant to OAC rule 3745-17-11(A)(3), this emissions unit is similar to emissions unit P035, High Purity Cascade Cooler, and is united either physically or operationally, or otherwise located in close proximity to each other. If emission testing determines that the uncontrolled mass emission rate of emissions unit P035 is greater than 10 pounds per hour, the allowable emissions rate according to Figure II shall be determined with the combined uncontrolled emission rate of emissions units P034 and P035, combined.

d. This emissions unit is a pollutant specific emissions unit for PE according to 40 CFR Part 64 and has developed a CAM plan.

Pursuant to 40 CFR Part 64, the permittee has submitted and the Ohio EPA has approved a compliance assurance monitoring (CAM) plan for emissions unit P034 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

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

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations,

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

(2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for particulate emissions is the water spray flow rate.

The wet scrubber liquid flow rate shall not be less than the average determined during the most recent performance test.

When the emissions unit is operating outside the indicator ranges, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions and comply with the reporting requirements specified in section e). The emissions unit and control

equipment shall be operated in accordance with the approved CAM plan, or any approved revision of the CAM plan.

If a CAM indicator is outside of the designated range for more than 5% of the reporting period, the Director may require a Quality Improvement Plan for that CAM indicator in accordance with 40 CFR 64.8.

If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the Ohio EPA Northeast District Office, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

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

(3) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the water sprays. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The scrubbing liquid flow meter shall be installed within 90 days of the effective date of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR 60.674(a)]

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

a. the scrubbing liquid flow rate to the wet scrubber, in gpm; and

b. any instance when the emissions unit was in operation without the capture or control system.

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

(5) See the parametric monitoring deviation requirements in B.4.

e) Reporting Requirements

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

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

a. each period of time when the scrubbing liquid flow rate to the control device was less than the average determined during the most recent performance test;

b. any period of time when the emissions unit(s) was in operation without the capture or control system;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted; and

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken.

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

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

Particulate emissions shall not exceed 8.92 pounds per hour.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

(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 within 120 days of the effective date of this permit.

b. The emission testing shall be conducted in conjunction with P031, P033 and P035 to demonstrate compliance with the particulate emission limitation and to establish the water spray liquid flow rate for the North Stack

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

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

g) Miscellaneous Requirements

(1) None.

21. P035, 999 Cascade Cooler

Operations, Property and/or Equipment Description:

Bucket elevator and conveying used for cooling high purity salt from the South Filter Wheel. The emissions unit is controlled by water sprays in the North Wet End stack.

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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	See b)(2)a, b)(2)b and b)(2)c.

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply to existing emissions units located in Wayne County. Therefore, to ensure that Figure II will not be applicable, the uncontrolled mass rate of particulate emissions is limited to less than 10 pounds per hour.

b. If the emissions testing required for this emissions unit demonstrates that the allowable emissions rate from Figure II is more stringent than 10 pounds per hour, the permittee shall comply with the more stringent limitation.

c. Pursuant to OAC rule 3745-17-11(A)(3), this emissions unit is similar to emissions unit P034, Granulated Cascade Cooler, and is united either physically or operationally, or otherwise located in close proximity to each other. If emission testing determines that the uncontrolled mass emission rate is greater than 10 pounds per hour, the allowable emissions rate according to Figure II shall be determined with the combined uncontrolled emission rate of emissions units P034 and P035, combined.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The scrubbing liquid flow meter shall be installed within 90 days of a determination that the uncontrolled mass emission rate is greater than 10 lbs per hour.

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

(2) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the water spray liquid flow rate shall not be less than the average determined during the most recent performance test.

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

(3) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall collect and record the following information each day:

a. the scrubbing liquid flow rate to the wet scrubber, in gpm; and

b. any instance when the emissions unit was in operation without the capture or control system.

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

(4) See the parametric monitoring deviation requirements in B.4.

(5) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize or eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

[Authority for term: OAC rule 3745-17-07(C)(1)]

e) Reporting Requirements

(1) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall submit semiannual written reports that identify:

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

(2) If emission testing determines the uncontrolled mass emission rate is greater than 10 pounds per hour, the permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each period of time when the scrubbing liquid flow rate to the control device was less than the average determined during the most recent performance test;

b. any period of time when the emissions unit(s) was in operation without the capture or control system;

c. each incident of deviation described in a. (above) where a prompt investigation was not conducted; and

d. each incident of deviation described in a. where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken.

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

f) Testing Requirements

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

a. Emission Limitation:

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1), OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

The uncontrolled particulate emissions shall not exceed 10 pounds per hour or the limitation established by OAC rule 3745-17-11, Figure II.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)].

(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 within 120 days of the effective date of this permit.

b. The emission testing shall be conducted in conjunction with the outlet testing for emissions units P031, P033 and P034 to demonstrate compliance with the particulate emission limitation and to establish the water spray liquid flow rate for the North Stack

c. The following test method(s) shall be employed to demonstrate compliance with the uncontrolled mass emission rate of particulate emissions:

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

g) Miscellaneous Requirements

(1) None.

22. P037, Vapor Take-off

Operations, Property and/or Equipment Description:

a) Vapor take-off from screw conveyors for granulated salt from the north and middle wheels, controlled by a 2000 acfm Duall HydroLance wet scrubber. 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 operations(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. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions shall not exceed 3.37 pounds per hour.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The permittee shall record the pressure drop across the wet collector on a daily basis.

[Authority for term: OAC rule 3745-17-07(C)(1)]

(2) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

The permittee shall record the scrubbing liquid flow rate on a daily basis.

[Authority for term: OAC rule 3745-17-07(C)(1)]

(3) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

The acceptable range or limit for the pressure drop across the wet collector and the scrubbing liquid flow rate shall be based upon the manufacturer's specifications until such time as any required performance testing is conducted and the appropriate range for each parameter is established to demonstrate compliance.

[Authority for term: OAC rule 3745-17-07(C)(1)]

(4) After the compliance demonstration, the pressure drop across the wet collector and the scrubbing liquid flow rate shall be maintained not more than 30% less than the average determined during the most recent performance test.

[Authority for term: OAC rule 3745-17-07(C)(1)]

(5) See the parametric monitoring deviation requirements in B.4.

(6) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to minimize of eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has

ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when pressure drop across the wet scrubber did not comply with the allowable range specified above;

b. each period of time when the water flow rate to the wet scrubber did not comply with the allowable range specified above;

c. an identification of each incident of deviation described in (a) or (b) where a prompt investigation was not conducted;

d. an identification of each incident of deviation described in (a) or (b) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. an identification of each incident of deviation described in (a) or (b) where proper records were not maintained for the investigation and/or the corrective action.

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

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

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

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

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(1)(a)]

b. Emission Limitation:

Particulate emissions shall not exceed 3.37 pounds per hour.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1) and OAC rule 3745-17-03(B)(10)]

(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 within 6 months of the effective date of this permit or within 6 months of startup.

b. The emission testing shall be conducted to demonstrate compliance with the particulate emission limitation and to establish the pressure drop across the wet collector and the scrubbing liquid flow rate.

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

40 CFR Part 60, Appendix A, Methods 1 through 5.

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

d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the Ohio EPA Northeast District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

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

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

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

g) Miscellaneous Requirements

(1) None.

23. P047, 3rd floor flake system

Operations, Property and/or Equipment Description:

Third Floor Flake System consisting of two salt flakers, grinding mill, bins, screw conveyors, belt conveyors and bucket elevators and screens controlled by a 28,000 cfm Trimer Whirl/Wet scrubber.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) (P0110070 effective 9/6/2012)	Particulate emissions/ particulate emissions with a diameter less than 10 microns (PE/PM_{10}) shall not exceed 0.009 gr/dscf from the wet collector exhaust.
b.	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(D)(1)(a).
c.	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(D)(1)(a).
d.	OAC rule 3745-31-05(D)(1)(a) [Limit to avoid major modification]	PE/PM_{10} emissions shall not exceed 0.009 grain/dscf, 2.16 lbs/hr and 9.46 tons per year from the wet collector exhaust. Visible particulate emissions from the wet collector stack shall not exceed 0% opacity as a 6-minute average.
e.	40 CFR Part 60, Subpart OOO (60.670-676)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D)(1)(a). See the requirements in B.3.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The emissions from this emissions unit shall be vented to a wet collector at all times the emissions unit is in operation. The wet collector shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the points of capture to the extent possible with good engineering design.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0110070]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install 02-13921, issued on April 26, 200: **(d)(10)**. The monitoring and record keeping requirements contained in the above-referenced permit to install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

(2) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the wet collector (in pounds per square inch, gauge) during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall record the pressure drop across the wet collector on a daily basis.

[Authority for term: OAC rule 3745-77-07(C)(1), P0110070 and 40 CFR 60.674(a)]

(3) The permittee shall properly install, operate, and maintain equipment to regulate the scrubbing liquid change frequency during operation of this emissions unit, including periods of startup and shutdown.

The permittee shall maintain records that document the drain valve frequency and duration of the wet collector on a daily basis. Records may be maintained in an electronic form. The permittee shall monitor the drain valve frequency and duration in lieu of the scrubber liquid flow monitoring requirements in 60.376(c). The scrubber is not a continuous water flow, design type and, therefore, Ohio EPA has determined that the Section 60.674 flow monitoring requirement should not be included in this permit.

[Authority for term: OAC rule 3745-77-07(C)(1), P0110070 and 40 CFR 60.674(a)]

(4) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0110070]

(5) Pressure drop across the wet collector shall be maintained not less than 30% below the average determined during the most recent performance test.

[Authority for term: OAC rule 3745-77-07(C)(1), P0110070 and 40 CFR 60.676(d)]

(6) The drain valve frequency and duration shall not be less than the rate determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0110070]

(7) The pressure drop monitoring device must be certified by the manufacturer to be accurate within ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with the manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), P0110070 and 40 CFR 60.674(a)(1)]

The scrubbing liquid flow rate actuating equipment must be verified on an annual basis to be correctly actuating the water changes.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0110070]

(8) See the parametric monitoring deviation requirements in B.4.

(9) The permittee shall keep a record of any instance when the emissions unit was in operation without the capture or control system.

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

(10) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has

ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which:

a. each period of time (start time and date, and end time and date) when the pressure drop across the wet collector and/or the drain valve parameters were outside of the appropriate range and the corrective actions initiated;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the wet collector;

c. each incident of deviation described in “a” or “b” (above) where a prompt investigation was not conducted;

d. each incident of deviation described in “a” or “b” where prompt corrective action, that would bring the pressure drop and/or the drain valve parameters into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. each incident of deviation described in “a” or “b” where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit, were not implemented.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0110070]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet collector serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0110070]

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. Emission Limitations:

PE/PM_{10} emissions shall not exceed 0.009 grain/dscf from the wet collector exhaust.

PE/PM_{10} emissions shall not exceed 2.16 lbs/hr from the wet collector exhaust.

Applicable Compliance Method:

If required, compliance with the particulate emission limitation shall be demonstrated through an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

b. Emission Limitation:

PE/PM_{10} emissions shall not exceed 9.46 tons per year from the wet collector exhaust.

Applicable Compliance Method:

Compliance with the long term emissions limitation shall be determined using the following equation:

E = (Operating gr/dscf)(60 min/hr)(T)(lb/7000 gr)(ton/2000 lb)(DSCFM)

where:

E= the particulate emissions from the dry collector egress, in tons per year;

Operating gr/dscf = 0.009 gr/dscf, or the grain loading determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate;

T = 8760 hrs/yr, or the actual hours of operation per year; and

DSCFM =28,000 dscfm or maximum air flow from the wet collector determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

c. Emission Limitation:

Visible particulate emissions from the wet collector stack shall not exceed 0% opacity as a 6-minute average.

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.

g) Miscellaneous Requirements

(1) None.

24. P048, 999 Conveying

Operations, Property and/or Equipment Description:

South filter wheel conveying including a screw conveyor and transfer belt controlled by a 2000 cfm wet collector

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) as effective 11/30/2001 (PTI P0112638 1/23/2013)	Particulate emissions/ particulate emissions less than 10 micrograms in diameter (PE/PM_{10}) shall not exceed 0.014 gr/dscf and 1.05 tons per year from the wet collector exhaust. Visible particulate emissions from the wet collector stack shall not exceed 0% opacity, as a 6-minute average. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3) as effective 12/01/2006 (PTI P0112638 1/23/2013)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM_{10} emissions emitted by this emissions unit since the potential to emit after controls for PM_{10} is less than 10 tons/year. See b)(2)b and b)(2)c.
c.	OAC rule 3745-17-07(A)(1)	Pursuant to OAC rule 3745-07(A)(3)(h), the requirements of this rule to not apply.
d.	OAC rule 3745-17-11(B)	The uncontrolled particulate emissions from this emissions unit are less than 10 pounds per hour. Pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), the requirements of this rule do not apply.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 60, Subpart OOO, Nonmetallic Mineral Processing Plant [60.670 – 60.676]	PE shall not exceed 0.014 grain per dry cubic feet of exhaust gas. See B.3

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 31, 2001, in this permit. On December 1, 2006, paragraph (A)(3) OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

c. This emissions unit is exempt from a BAT limitation for particulate emissions if the emissions unit continues to emit less than 10 tons per year after controls.

c) Operational Restrictions

(1) The emissions from this emissions unit shall be vented to a wet collector at all times the emissions unit is in operation. The wet collector shall be operated with a sufficient volumetric flow rate to eliminate visible particulate emissions at the points of capture to the extent possible with good engineering design.

[Authority for term: OAC rule 3745-77-07(A)(1) and P0112638]

d) Monitoring and/or Recordkeeping Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in permit to install P0112638 issued on January 23, 2013: **(d)(10)**. The monitoring and record keeping requirements contained in the above-referenced permit to install are subsumed into the monitoring and record keeping

requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the permit to install.

[Authority for term: OAC rule 3745-77-07(A)(3)(a)(ii)]

(2) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±250 pascals ±1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.674(a)(1)]

(3) The permittee shall record the pressure drop across the wet collector on a daily basis.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.676(c)]

(4) The permittee shall install, calibrate, maintain and operate a device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ±5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.674(a)(2)]

(5) The permittee shall record the scrubbing liquid flow rate on a daily basis.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.676(c)]

(6) The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer’s recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0112638]

(7) The acceptable range or limit for the pressure drop across the wet collector and the scrubbing liquid flow rate shall be based upon the manufacturer’s specifications until such time as any required performance testing is conducted and the appropriate range for each parameter is established to demonstrate compliance.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0112638]

(8) After the compliance demonstration, the pressure drop across the wet collector and the scrubbing liquid flow rate shall be maintained not more than 30% below the average determined during the most recent performance test.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.676(d)]

(9) See the parametric monitoring deviation requirements in B.4.

(10) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The permittee shall note the following in the operations log:

a. whether visible emissions are present;

b. if present, whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations;

i. the cause of the abnormal emissions;

ii. the total duration of any visible emission incident (if known); and

iii. any corrective actions taken to eliminate the visible emissions.

If abnormal visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item c. above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit).

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

e) Reporting Requirements

(1) Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in permit to install P0112638 issued on January 23, 2013: **[e)(3)]**. The reporting requirements contained in the above-referenced permit to install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

(2) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which:

a. each period of time (start time and date, and end time and date) when the pressure drop across the wet collector and/or the scrubbing liquid flow rate were outside of the appropriate range and the corrective actions initiated;

b. any period of time (start time and date, and end time and date) when the emissions unit was in operation and the process emissions were not vented to the wet collector;

c. each incident of deviation described in “a” or “b” (above) where a prompt investigation was not conducted;

d. each incident of deviation described in "a" or "b" where prompt corrective action, that would bring the pressure drop across the wet collector and/or the scrubbing liquid flow rate into compliance with the acceptable range, was determined to be necessary and was not taken; and

e. each incident of deviation described in "a" or "b" where proper records were not maintained for the investigation and/or the corrective action(s), as identified in the monitoring and record keeping requirements of this permit, were not implemented.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 02-11804 and 40 CFR 60.676(d) and (e)]

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

a. all days during which any visible particulate emissions not representative of normal operation (abnormal) were observed from the stack serving this emissions unit; and

b. any corrective actions taken to eliminate the abnormal visible particulate emissions.

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

f) Testing Requirements

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

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

PE/PM_{10} emissions shall not exceed 0.014 gr/dscf from the wet scrubber exhaust.

PE shall not exceed 0.014 gr/dscf from the wet scrubber exhaust.

<u>Applicable Compliance Method</u>:

If required, compliance with the particulate emission limitations shall be demonstrated through an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the specifications in OAC rule 3745-17-03(B)(10) and 40 CFR 60.675.

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and 40 CFR 60.675]

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

PE/PM_{10} emissions shall not exceed 1.05 tons per year from the wet collector exhaust.

Applicable Compliance Method:

Compliance with the long-term emission limitation shall be demonstrated using the following equation:

E = (Operating gr/dscf)(60 min/hr)(T)(lb/7000 gr)(ton/2000 lb)(DSCFM)

where:

E= the particulate emissions from the wet collector egress, in tons per year;

Operating gr/dscf = 0.014 gr/dscf, or the grain loading determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate;

T = 8760 hrs/yr, or the actual hours of operation per year; and

DSCFM =2,000 dscfm or maximum air flow from the wet collector determined during the last emissions test that demonstrated the emissions unit was in compliance with the allowable particulate emissions rate.

[Authority for term: OAC rule 3745-77-07(C)(1) and P0112638]

c. Emission Limitation:

Visible particulate emissions from the wet collector stack shall not exceed 0% opacity, as a 6-minute average.

Applicable Compliance Method:

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

[Authority for term: OAC rule 3745-77-07(C)(1), P0112638 and OAC rule 3745-17-03(B)(1)(a)]

g) Miscellaneous Requirements

(1) None.