



Environmental Protection Agency

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

5/26/2011

Certified Mail

Andrew Roebel
Duke Energy Ohio, Miami Fort Station
139 E 4th Street
ML 552A
Cincinnati, OH 45202

No	TOXIC REVIEW
No	PSD
Yes	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL
Facility ID: 1431350093
Permit Number: P0107421
Permit Type: OAC Chapter 3745-31 Modification
County: Hamilton

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install (PTI) which will allow you to install or modify the described emissions unit(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Hamilton County Dept. of Environmental Services. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

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

Cc: U.S. EPA
HCDOES; Indiana; Kentucky



Response to Comments

Response to comments for: Permit-To-Install

Table with 2 columns and 8 rows containing facility information: Facility ID, Facility Name, Facility Description, Facility Address, Permit #, public notice details, hearing date, and public notice date.

The following comments were received during the comment period specified. Ohio EPA reviewed and considered all comments received during the public comment period. By law, Ohio EPA has authority to consider specific issues related to protection of the environment and public health.

In an effort to help you review this document, the questions are grouped by topic and organized in a consistent format. PDF copies of the original comments in the format submitted are available upon request.

- 1. Topic: There were no comments received during the comment period of April 22, 2011 through May 22, 2011.
a. Comment: None
b. Response: None



FINAL

**Division of Air Pollution Control
Permit-to-Install
for
Duke Energy Ohio, Miami Fort Station**

Facility ID: 1431350093
Permit Number: P0107421
Permit Type: OAC Chapter 3745-31 Modification
Issued: 5/26/2011
Effective: 5/26/2011



Division of Air Pollution Control
Permit-to-Install
for
Duke Energy Ohio, Miami Fort Station

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Authorization

Facility ID: 1431350093
Facility Description: electric power generating station
Application Number(s): A0041015
Permit Number: P0107421
Permit Description: Modification of PTI 14-05585, to add additional gypsum storage capability in the Flue Gas Desulfurization facility. The affected emissions units are paved and unpaved roadways, gypsum storage piles and gypsum handling, transfer and conveying.
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$2,700.00
Issue Date: 5/26/2011
Effective Date: 5/26/2011

This document constitutes issuance to:

Duke Energy Ohio, Miami Fort Station
11021 Brower Road
P. O. Box 128
North Bend, OH 45052-0128

of a Permit-to-Install for the emissions unit(s) identified on the following page.

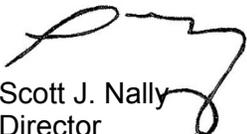
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660
(513)946-7777

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Scott J. Nally
Director



Authorization (continued)

Permit Number: P0107421

Permit Description: Modification of PTI 14-05585, to add additional gypsum storage capability in the Flue Gas Desulfurization facility. The affected emissions units are paved and unpaved roadways, gypsum storage piles and gypsum handling, transfer and conveying.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:

Company Equipment ID:
Superseded Permit Number:
General Permit Category and Type:

F007

FGD Material Handling Roadways
14-05585
Not Applicable

Emissions Unit ID:

Company Equipment ID:
Superseded Permit Number:
General Permit Category and Type:

F008

FGD Material Handling Storage Piles
14-05585
Not Applicable

Emissions Unit ID:

Company Equipment ID:
Superseded Permit Number:
General Permit Category and Type:

F010

Gypsum Handling System
14-05585
Not Applicable

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.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e)General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) 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.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. 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 re-issuance, or modification.

- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. 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 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.

4. 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, 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.
- 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, 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.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Hamilton County Dept. of Environmental Services.

- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Hamilton County Dept. of Environmental Services. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the Hamilton County Dept. of Environmental Services every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. 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 are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Hamilton County Dept. of Environmental Services in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.
- b) Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.



- c) 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 ORC section 3704.08.
 - (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.
- d) The permittee shall submit progress reports to the Hamilton County Dept. of Environmental Services 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.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.

8. 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.

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Hamilton County Dept. of Environmental Services.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission

limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Hamilton County Dept. of Environmental Services. 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 (i.e., postmarked) 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.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.
- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit 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) by submitting a certification from the authorized 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 authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in Ohio EPA's "Air Services" along with the date the emissions unit(s) was permanently

removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit 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). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

No emissions unit certified by the authorized official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

13. Construction Compliance Certification

The applicant shall identify the following dates in the online facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

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

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 (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. 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. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in Air Services once the transfer is legally completed. The change must be submitted through Air Services within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

19. 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.

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.

C. Emissions Unit Terms and Conditions



1. F007, FGD Material Handling Roadways

Operations, Property and/or Equipment Description:

FGD material handling system roadways

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 11/30/01.	<p>See b)(2)a.</p> <p>For paved roadways:</p> <p>No visible particulate emissions except for one minute during any 60-minute period.</p> <p>The visible emission limitations in OAC rule 3745-17-08(B)(6) will apply once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)c., b)(2)e., b)(2)g., b)(2)i. and b)(2)j.).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B), 3745-17-08(B) and 3745-31-05(D).</p> <p>For unpaved roadways:</p> <p>No visible particulate emissions except for 3 minutes during any 60-minute period.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The visible emission limitations in OAC rule 3745-17-08(B)(6) will apply once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)d., b)(2)f. through b)(2)j.).</p> <p>The requirements of this rule also include compliance with the requirements OAC rules 3745-31-05(D) and 3745-17-08(B).</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06.	See b)(2)b.
c.	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD New Source Review	<p>Particulate emissions (PE) from the paved roadways shall not exceed 10.18 tons per year.</p> <p>Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the paved roadways shall not exceed 2.83 tons per year.</p> <p>Particulate matter less than or equal to 2.5 microns in diameter (PM2.5) emissions from the paved roadways shall not exceed 0.50 ton per year (from ash pond gypsum storage pile handling and transport roadways).</p> <p>Particulate emissions (PE) from the unpaved roadways shall not exceed 8.15 tons per year.</p> <p>Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the unpaved roadways shall not exceed 2.34 tons per year.</p> <p>Particulate matter less than or equal to 2.5 microns in diameter (PM2.5) emissions from the unpaved roadways shall not exceed 0.31 ton per year (from ash pond gypsum storage pile handling</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>and transport roadways).</p> <p>See b)(2)l.</p>
d.	OAC rule 3745-17-07(B)(6)	<p>There shall be no visible emissions of fugitive dust from the paved roadways and/or parking areas except for a period of time not to exceed six minutes during any 60-minute observation period.</p> <p>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.</p> <p>There shall be no visible emissions of fugitive dust from the unpaved roadways and/or parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period. If any unpaved roadway and/or parking area (or any portion of them) is or becomes paved, such paved areas shall be subject to a limitation of no visible emissions except for a period of time not to exceed six minutes during any 60-minute observation period.</p> <p>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.</p>
e.	OAC rule 3745-17-08(B)	<p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)e. through b)(2)j.).</p> <p>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.</p>

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph

(A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) 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 OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM10 and PM2.5 emissions from this air contaminant source since the uncontrolled potential to emit for PM10 and PM2.5 emissions is less than ten tons per year.
- c. The paved roadways that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadways:

B - Gypsum Storage Building/Front End Loader

C - Gypsum Emergency Stock-out Pile

D - Dump Truck/Gypsum Station/Temporary Gypsum Storage Pile/Transport

E - Dumpster Truck/Inerts Station
- d. The unpaved roadways that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

A - Limestone Storage Pile Areas

C - Dump Truck/Gypsum Station/Temporary Gypsum Storage Pile/Transport
- e. The permittee shall employ best available control measures on all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways by water flushing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways with watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph



shall prohibit the permittee from employing other control measures to ensure compliance.

- g. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit.
h. Any unpaved roadway, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces.
i. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
j. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
k. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
l. The annual emissions limitations outlined are based upon the maximum production limitations established for emissions units F009 and F010.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

Table with 2 columns: paved roadways, minimum inspection frequency. Rows include B - Gypsum Storage Building/Front End Loader (weekly) and C - Gypsum Emergency Stock-out Pile (weekly).

D - Dump Truck/Gypsum Station/
 Temporary Gypsum Storage Pile/Transport weekly

E - Dumpster Truck/Inerts Station weekly

unpaved roadways minimum inspection frequency

A - Limestone Storage Pile Areas weekly

C - Dump Truck/Gypsum Station/
 Temporary Gypsum Storage Pile/Transport weekly

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

(3) The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

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

The information required in d)(4)d. shall be kept separately for (i) the paved roadways and (ii) the unpaved roadways, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) The permittee shall maintain monthly records of the following information for this emissions unit:
- a. the actual or estimated monthly vehicle miles traveled; and
 - b. the total emissions, in tons, for PE/PM10/PM2.5 for each month.

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.
- (3) The permittee shall submit annual reports that specify the total PE/PM10/PM2.5 emissions from this emissions unit for the calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:
 - a. Emission Limitation:

For paved roadways: no visible particulate emissions except for one minute during any 60-minute period.

Applicable Compliance Method:

If required, compliance with the visible emissions limitation for fugitive dust from the paved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
 - b. Emission Limitation:

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

Applicable Compliance Method

Compliance with the visible emissions limitation for fugitive dust from the paved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

c. Emission Limitation:

For unpaved roadways: no visible particulate emissions except for 3 minutes during any 60-minute period. If any unpaved roadway and/or parking area (or any portion of them) is or becomes paved before b)(2)a. is implemented, such paved areas shall be subject to a limitation of no visible emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emissions limitation for fugitive dust from the unpaved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

d. Emission Limitation:

There shall be no visible emissions of fugitive dust from the unpaved roadways and/or parking areas except for a period of time not to exceed 13 minutes during any 60-minute observation period. If any unpaved roadway and/or parking area (or any portion of them) is or becomes paved, such paved areas shall be subject to a limitation of no visible emissions except for a period of time not to exceed six minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible emissions limitation for fugitive dust from the unpaved roadways and/or parking areas identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

e. Emission Limitations:

Particulate emissions (PE) from the paved roadways shall not exceed 10.18 tons per year.

Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the paved roadways shall not exceed 2.83 tons per year.

Particulate matter less than or equal to 2.5 microns in diameter (PM2.5) emissions from the paved roadways shall not exceed 0.50 ton per year (from Temporary Gypsum storage pile handling and transport roadways).

Applicable Compliance Methods:

Compliance shall be determined using the following equations:

$$\text{tons PE/yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

$$\text{tons PM}_{10}/\text{yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

$$\text{tons PM}_{2.5}/\text{yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE, PM₁₀ or PM_{2.5} emission factor, lb/VMT, calculated from AP-42, Section 13.2.1 (January, 2011)

B = annual vehicle miles traveled (VMT)

C = control efficiency, for paved roadways, from operational parameters outlined in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011.

f. Emission Limitations:

Particulate emissions (PE) from the unpaved roadways shall not exceed 8.15 tons per year.

Particulate matter less than or equal to 10 microns in diameter (PM₁₀) emissions from the unpaved roadways shall not exceed 2.34 tons per year.

Particulate matter less than or equal to 2.5 microns in diameter (PM_{2.5}) emissions from the unpaved roadways shall not exceed 0.31 ton per year (from Temporary Gypsum storage pile handling and transport roadways).

Applicable Compliance Methods:

Compliance shall be determined using the following equations:

$$\text{tons PE}/\text{yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

$$\text{tons PM}_{10}/\text{yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

$$\text{tons PM}_{2.5}/\text{yr} = (A) \times (B) \times (1-C) \times 1 \text{ ton}/2000 \text{ lbs}$$

where,

A = PE, PM₁₀ or PM_{2.5} emission factor, lb/VMT, calculated from AP-42, Section 13.2.2 (December, 2003)

B = annual vehicle miles traveled (VMT)

C = control efficiency, for unpaved roadways, from operational parameters outlined in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011.

g) Miscellaneous Requirements

- (1) None.



2. F008, FGD Material Handling Storage Piles

Operations, Property and/or Equipment Description:

FGD material handling system storage piles

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01.	See b)(2)a. No visible emissions except for one minute during any 60-minute period. The visible emission limitations in OAC rule 3745-17-08(B)(6) will apply once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)d. through b)(2)g.). The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-08(B) and 3745-31-05(D).
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06.	See b)(2)b.
c.	OAC rule 3745-17-07(B)(6)	There shall be no visible emissions of fugitive dust from the material storage piles except for a period of time not to exceed 13 minutes during any 60-minute observation period.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		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.
d.	OAC rule 3745-17-08(B)	<p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)d. through b)(2)g.).</p> <p>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.</p>
e.	OAC rule 3745-31-05(D) Synthetic Minor to avoid PSD New Source Review	<p>Particulate emissions (PE) from the material handling system storage piles - load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 1.48 tons per year.</p> <p>Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the material handling system storage piles - load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 0.76 ton per year.</p> <p>Particulate matter less than or equal to 2.5 microns in diameter (PM2.5) emissions from the material handling system storage piles - load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 0.20 ton per year (from Temporary Gypsum Storage Piles handling, load-in, load-out and wind erosion).</p> <p>See b)(2)i.</p>

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that

BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) 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 OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, PM10 and PM2.5 emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10 and PM2.5 emissions is less than ten tons per year.

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. The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

A - Limestone (active storage pile);

B - Limestone (inactive storage pile);

C - Gypsum (active and Temporary Gypsum storage pile);

D - Gypsum (emergency stock-out pile); and,

E - Inerts storage.

- d. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to the use of telescopic chute, maintaining material moisture content, precautionary measures and partial enclosure in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- f. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the

permittee's permit application, the permittee has committed to maintaining the material moisture content, precautionary measures and partial enclosure in order to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- g. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- h. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
- i. The annual emissions limitations outlined are based upon the maximum production limitations established for emissions units F009 and F010.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
A - Limestone (active storage pile)	weekly
B - Limestone (inactive storage pile)	weekly
C - Gypsum (active and Temporary Gypsum storage pile)	weekly
D - Gypsum (emergency stock-out pile)	weekly
E - Inerts storage	weekly

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

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
A - Limestone (active storage pile)	weekly
B - Limestone (inactive storage pile)	weekly
C - Gypsum (active and Temporary Gypsum storage pile)	weekly



- D - Gypsum (emergency stock-out pile) weekly
E - Inerts storage weekly

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

Table with 2 columns: storage pile identification, minimum wind erosion inspection frequency

- A - Limestone (active storage pile) weekly
B - Limestone (inactive storage pile) weekly
C - Gypsum (active and Temporary Gypsum storage pile) weekly
D - Gypsum (emergency stock-out pile) weekly
E - Inerts storage weekly

(4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

(5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile.

(6) The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

- (7) The permittee shall maintain records of the following information:
a. the date and reason any required inspection was not performed...
b. the date of each inspection where it was determined...
c. the dates the control measures were implemented; and
d. on a calendar quarter basis, the total number of days the control measures were implemented...

The information required in d)(7)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be

updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (8) The permittee shall maintain monthly records of the total emissions, in tons, for PE/PM10/PM2.5.

e) Reporting Requirements

- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
- (2) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.
- (3) The permittee shall submit annual reports that specify the total PE/PM10/PM2.5 emissions from this emissions unit for the calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emission Limitations:

Particulate emissions (PE) from the material handling system storage piles - load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 1.48 tons per year.

Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the material handling system storage piles load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 0.76 ton per year.

Particulate matter less than or equal to 2.5 microns in diameter (PM2.5) emissions from the material handling system storage piles - load-in and load-out of storage piles and wind erosion from storage piles shall not exceed 0.20 ton per year (from Temporary Gypsum storage piles handling, load-in, load-out and wind erosion).

Applicable compliance method:

Compliance shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011.

b. Emission Limitation:

no visible particulate emissions except for one minute during any 60-minute period (load-in, load-out and wind erosion).

Applicable Compliance Method:

If required, compliance with the visible emissions limitation for fugitive dust from the material handling storage piles identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

c. Emission Limitation:

There shall be no visible emissions of fugitive dust from the material storage piles except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible emissions limitation for fugitive dust from the material handling storage piles identified in this permit shall be determined in accordance with U.S. EPA Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

(1) None.



3. F010, Gypsum Handling System

Operations, Property and/or Equipment Description:

FGD material handling, transfer and conveying - Gypsum handling system

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 11/30/01.	<p>See b)(2)a.</p> <p>Particulate emissions (PE) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.61 pound per hour.</p> <p>Emissions of particulate matter less than 10 microns in diameter (PM10) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.34 pound per hour.</p> <p>Emissions of particulate matter less than 2.5 microns in diameter (PM2.5) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.02pound per hour (from Temporary Gypsum material handling system, transfer and conveying - gypsum handling).</p> <p>See b)(2)d. and b)(2)e.</p> <p>The requirements of this rule also include compliance with the requirements OAC rule 3745-17-08(B), and OAC rule 3745-31-05(D).</p>

b	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/01/06.	See b)(2)b.
c.	OAC rule 3745-31-05(D) Synthetic Minor to avoid Major Modification New Source Review	<p>Particulate emissions (PE*) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.66 ton per year.</p> <p>Particulate matter less than or equal to 10 microns in diameter (PM10*) emissions from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.40 ton per year.</p> <p>Particulate matter less than or equal to 2.5 microns in diameter (PM2.5*) emissions from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.01 ton per year* (from Temporary Gypsum storage piles material handling system, transfer and conveying - gypsum handling).</p> <p>* based upon a rolling, 12-month summation</p> <p>See c)(1).</p>
d.	OAC rule 3745-17-07(B)	<p>Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average, except as specified by rule.</p> <p>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.</p>
e.	OAC rule 3745-17-08(B)	<p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see b)(2)d. and b)(2)e.).</p> <p>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.</p>

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) 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 OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- b. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, PM10 and PM2.5 emissions from this air contaminant source since the uncontrolled potential to emit for PE, PM10 and PM2.5 emissions is less than ten tons per year.

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

Gypsum handling system, exclusive of the storage piles, as described in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011.
- d. The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

<u>material handling operation(s)</u>	<u>control measure(s)</u>
gypsum handling system	a combination of partial enclosure, telescopic chute and full enclosure

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

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

the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
- g. The hourly emission limitations outlined in b)(1) for PE/PM10/PM2.5 are based on the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with these limits.

c) Operational Restrictions

- (1) The maximum annual throughput for this emissions unit shall not exceed 1,033,680 tons of gypsum, based upon a rolling, 12-month summation of the throughput rates.

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

d) Monitoring and/or Recordkeeping Requirements

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

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
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Gypsum handling system	weekly
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- (2) The above-mentioned inspections shall be performed during representative, normal operating conditions.
- (3) The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

- (5) The permittee shall maintain monthly records of the following information for this emissions unit in order to monitor compliance with the applicable material throughput restriction:
 - a. the material throughput for each month; and
 - b. the rolling, 12-month summation of the material throughput.
 - (6) The permittee shall maintain monthly records of the following information for this emissions unit in order to demonstrate compliance with the rolling, 12-month summation emission limitations:
 - a. the total emissions, in tons, for PE/PM10/PM2.5 for each month; and
 - b. the updated rolling, 12-month summation emissions total, in tons, for PE/PM10/PM2.5 (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months).
- e) Reporting Requirements
- (1) The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
 - (2) The permittee shall submit deviation (excursion) reports which identify all exceedances of the following:
 - a. an identification of all exceedances of the rolling, 12-month material throughput restriction; and
 - b. an identification of all exceedances of the rolling 12-month emission limitations for PE/PM10/PM2.5.
 - (3) The deviation reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions of this permit.
 - (4) The permittee shall submit annual reports that specify the total PE/PM10/PM2.5 emissions from this emissions unit for the calendar year. These reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. Emission Limitations:

Particulate emissions (PE) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.61 pound per hour.

Particulate matter less than or equal to 10 microns in diameter (PM10) emissions from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.34 pound per hour.

Emissions of particulate matter less than 2.5 microns in diameter (PM2.5) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.02 pound per hour (from ash pond material handling system, transfer and conveying - gypsum handling).

Particulate emissions (PE*) from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.66 ton per year.

Particulate matter less than or equal to 10 microns in diameter (PM10*) emissions from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.40 ton per year.

Particulate matter less than or equal to 2.5 microns in diameter (PM2.5*) emissions from the material handling system, transfer and conveying - gypsum handling system shall not exceed 0.01 ton per year* (from ash pond material handling system, transfer and conveying - gypsum handling).

Applicable Compliance Method:

The hourly emission limitations are based upon the emissions unit's potential to emit and the emissions data found in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011. Compliance with the annual limitations shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in PTI applications 14-05585, received June 22, 2004 and A0041015, received January 7, 2011 and the record keeping in d)(5).

b. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average, except as specified by rule.

Applicable compliance method:

Compliance with the limitation for visible emissions of fugitive dust shall be determined through visible emissions observations performed in accordance U.S. EPA Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- (2) Compliance with the operational limitation in c)(1) shall be determined in accordance with the following methods:

Material throughput Restriction:

1,033,680 tons of gypsum throughput, per rolling 12-month period

Applicable Compliance Method:

Compliance with the rolling 12-month material throughput restriction specified above shall be determined by the record keeping requirements specified in d)(5).

- g) Miscellaneous Requirements

- (1) None.