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

1/24/2013

Certified Mail

Andy Cvitkovich
US Gypsum Company
Lake Street
Gypsum, OH 43433

Facility ID: 0362000078
Permit Number: P0109878
County: Ottawa

RE: PRELIMINARY PROPOSED AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Ohio Environmental Protection Agency (EPA)Preliminary Proposed Title V permit that was issued in draft form on 11/21/2012. The comment period for the Draft permit has ended. We are now ready to submit this permit to U.S. EPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. 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 permit or in narrative format. Any comments must be sent to the following within 14 days of your receipt of this letter:

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, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

If you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.If comments are not submitted within 14 days of your receipt of this letter, we will forward the proposed permit to U.S. EPA for approval. All comments received will be carefully considered before proceeding with the proposed permit.

Sincerely,

Michael W. Ahern

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

Cc: Ohio EPA DAPC, Northwest District Office

Response to Comments

Facility ID:	0362000078
Facility Name:	US Gypsum Company
Facility Description:	Gypsum products
Facility Address:	Lake Street Gypsum, OH 43433 Ottawa County
Permit:	P0109878, Title V Permit - Renewal
A public notice for the draft permit issuance was published in the Ohio EPA Weekly Review and appeared in the Port Clinton News Herald on 11/24/2012. The comment period ended on 12/24/2012.	
Hearing date (if held)	
Hearing Public Notice Date (if different from draft public notice)	

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. Often, public concerns fall outside the scope of that authority. For example, concerns about zoning issues are addressed at the local level. Ohio EPA may respond to those concerns in this document by identifying another government agency with more direct authority over the issue.

PDF copies of the original comments in the format submitted are available upon request.

1. COMPANY COMMENT:
Emissions unit B008 is required to have a quality assurance/control plan for the NOx Predictive Emissions Monitoring System (PEMS) unit. This emission unit is currently idle. Would the quality assurance/control plan only be required if we activate this unit?

AGENCY RESPONSE:
This requirement is from 40 CFR 60, Appendix F, Procedure 1.3, and was included in Section III.1.c of the initial Title V permit in 2003. Therefore, the facility should have had this Plan all along, since the 40 CFR 60 Appendix B 'initial certification' was done in 2003. (Note: Phone message from the company - further follow-up has resulted in them turning up a copy of their QA plan.)

2. COMPANY COMMENT:
Additionally for B008, the company received an exemption from the Relative Accuracy Test Audit (RATA) requirement in the previous Title V permit because the unit was idle. Would that same exemption still apply until the time the unit was restarted?

AGENCY RESPONSE:
Another RATA would not be required until the unit was in use again. However, the agency would require that the RATA be conducted within a set time of the unit re-starting. Further, in light of the relatively recent promulgation of Appendix B Performance Specification 16, the agency has concerns that the current PEMS has lost its certification, and in fact may not even be certifiable under PS 16.

The company should therefore look to contact the agency with as much lead time as practicable, should the unit not remain idle, to address any concerns.

3. COMPANY COMMENT:
The list of emission units and list of insignificant activities in the permit do not seem to capture everything that was submitted in our application. Specifically, F003, Z705, P024, Z119, Z317, Z319, Z320, Z707, Z804. Can you please explain the discrepancy? Do these emissions units count toward the facility Potential to Emit (PTE)?

AGENCY RESPONSE:
These units are 'insignificant' emissions units which have no 'federally enforceable applicable requirements'. As such, according to the latest guidelines /requirements from US EPA for the Ohio Title V permits, they are now no longer included anywhere in the permit.

Aside from these units, 'insignificant' emissions units P028, P046, P047, and P048 (formerly assigned as Z010) have their Permit-by-rule notification assigned as PBR10259. This update will be reflected in the Preliminary Proposed issuance of the Title V permit.

Regarding facility-wide PTE - yes, ALL (point source) emissions at the facility count toward PTE, whether or not they are included in the Title V permit.

4. COMPANY COMMENT:
Some emission units have specific stack testing requirements, while a few units refer to Engineering Guide 16, which would seem to require annual testing if the source is major and if there were past compliance issues. If stack testing is not a specific requirement in the permit, will it be required?

AGENCY RESPONSE:
The references to Engineering Guide 16 [in Section f)(1)g of the permit for certain units, and elsewhere in Section f) for other units] are essentially informational statements. In addition to the specific testing requirements included for some emissions units in the permit, depending upon future circumstances after permit issuance, the agency may need to exercise its discretionary authority under OAC 3745-15-04, to require additional tests (for these specific units or, actually, any emissions unit under the permit), in accordance with EG 16. The agency would contact the permittee at any such time(s) with further instructions.

5. COMPANY COMMENT:
Emission units P029, P030, P036, and P042 were stack tested earlier this year to satisfy NSPS requirements. Does that testing satisfy the conditions of this permit?

AGENCY RESPONSE:
Yes. Initial NSPS testing for these units conducted in calendar years 2011 or 2012 (contingent upon agency approval of those tests) will be accepted as the required tests in these permit sections.

6. COMPANY COMMENT:
Emission units P039 and P041 require that the company record pressure drop readings in the baghouse. Can you please explain why it is required for these two units?

AGENCY RESPONSE:
These two units have baghouse exhaust vented inside the building. The normal monitoring for baghouse performance, i.e. periodic visible emissions checks, has been determined to be infeasible in such a situation.

7. COMPANY COMMENT: (through telephone call -John Wellspring, consultant)
The company is concerned about for the testing requirements for emissions units P026 (once at the start of the renewal permit) and P027 (annual for CO and NOx, and twice in the 5-year renewal period, for OC and PM-10); they are concerned that the 3-month timeframe is an overly tight initial timeframe, and they are also concerned about the expense and are questioning if these tests are really necessary.

AGENCY RESPONSE:
Because of the Title V permit process, the company will effectively have several months more than the stated "within 3 months" timeframe to arrange for the tests. Regarding how extensive the required testing is: P026 is controlled by the largest of many baghouse collectors /filters at the facility, and is subject to "Best Available Control Technology" federal requirements. It has been tested in 2003 and 2008 by Method 5 for particulate matter, but the BACT pollutant is now PM-10. A testing frequency of every five years, for this one baghouse, is not considered overly burdensome. P027 is also a BACT unit, and the testing frequencies established for this unit are directly in accordance with agency policy under Engineering Guide 16, with the exception of NOx, which is an inexpensive test to add to the CO test.

8. COMPANY COMMENT: (through telephone call -John Wellspring, consultant)
Can 'insignificant' emissions units (such as R009) which have an issued Permit to Install (PTI) still qualify as 'insignificant' units?

AGENCY RESPONSE:
Yes. The requirement for a PTI does not necessarily nullify 'insignificant' status, provided that the PTE for the emissions unit (for criteria pollutants) is below the 5 tons per year threshold in OAC 3745-77-01(V)(3).

9. COMPANY COMMENT - PERMIT PAGE 73 (P023)
Change "0.010 gr PM10 /dscf" to "0.020 gr PM10 /dscf".

AGENCY RESPONSE:
The correction will be made as specified.

10. COMPANY COMMENT - PERMIT PAGE 74 (P026)
Change "14.9" to "14.95".

AGENCY RESPONSE:
The agency acknowledges past inattentiveness to significant figures. There is nothing in any of the agency's air regulations or Title V permit requirements that has precision exceeding three significant figures. The number was rounded down to 14.9 in the Draft, but more in accordance with engineering practice, will be rounded up to the next even digit, i.e. 15.0, for the Preliminary Proposed Title V permit.

11. COMPANY COMMENT - PERMIT PAGES 93 and 97 (P030)
Based on a recent stack test, correct baghouse air flow capacity is determined to be 725 acfm, rather than 625. Consequently, annual PM-10 limit of 0.47 tons needs to be changed to 0.54 tons.

AGENCY RESPONSE:
The agency plans to complete the processing of PTI P0112534 (an administrative modification of P0109774) to accomplish these changes for P030, ahead of the issuance of the Preliminary Proposed Title V permit.

12. COMPANY COMMENT - PERMIT PAGE 122 (P042)
Include a limit for PM-10 emissions for natural gas combustion.

AGENCY RESPONSE:
As in PTI P0109773, the Title V permit does not contain a limit for PM-10 from natural gas combustion. This is common agency practice; although it is true that limits are established here for very minor amounts of some combustion pollutants, the primary source (and concern) for PM-10 emissions for this unit is the exhaust from the baghouse /separator. [Note: The 0.26 tons PM-10 per year cited by the company (from the natural gas combustion) is NOT, however, excluded from facility-wide PTE.]

13. COMPANY COMMENT - PERMIT PAGE 134 (P044)
Page 'header' shows "P044, 75 Ton Silo" - it should read "P044, 75 Ton and 150 Ton silo".

AGENCY RESPONSE:
This header is 'auto-generated' from the company's Air Services permit application. The correct equipment description is shown two lines below it, as "Silos - 75 Ton & 150 Ton (stucco) - with pneumatic conveyance (14 tons/hr)". This will be acceptable - no futher change is necessary at this time.

14. COMPANY COMMENT - PERMIT PAGE 134 (P044)
Change "2000 (actual)" to "2200 (actual)"

AGENCY RESPONSE:
The change will be made as suggested.

15. COMPANY COMMENT - PERMIT PAGES 154 and 155 (P038)
Change "0.66 tons" to "0.52 tons"

AGENCY RESPONSE:
The company has picked up on a small error in the establishment of the 'non-baghouse' fugitive particulate emissions limit, from Permit to Install P0105334. The compliance determination in Section f)(1)b for this unit in the Title V permit shows an actual maximum emissions of 0.52 ton, which shows compliance with the 0.66 ton limit. This is acceptable, for the Title V permit - it was determined that an administrative modification to PTI P0105334 for this unit was not necessary, for this small error in the establishment of the limit of 0.66 ton.

PRELIMINARY PROPOSED

Division of Air Pollution Control
Title V Permit
for
US Gypsum Company

Facility ID:	0362000078
Permit Number:	P0109878
Permit Type:	Renewal
Issued:	1/24/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Division of Air Pollution Control
Title V Permit
for
US Gypsum Company

Table of Contents

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

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations 15
B. Facility-Wide Terms and Conditions 16
C. Emissions Unit Terms and Conditions 20
1. B006, 82 mmBTU/hr Natural Gas Fired Boiler 21
2. B008, 125 MMBtu/hr Natural Gas Fired Boiler 27
3. F002, Primary Crusher 36
4. F004, Synthetic Gypsum Unloading, Storage & Conveying 41
5. F005, Paved Roads & Parking Areas 49
6. P003, Perlite Expander 54
7. P010, Joint Tape Lines 1 and 2 59
8. P019, Landplaster Bin 64
9. P022, Tube Mill 68
10. P023, East & West Packers 71
11. P026, Finishing Operations: Sanders, Brushes, Saws - GFP 74
12. P027, 76 MMBtu/hr, 28 Zone Direct Fired Natural Gas Kiln 78
13. P029, Stucco Conveying, Grinding & Storage Operations - GFP 85
14. P030, Fine Landplaster Conveying & Storage Operations - GFP 93
15. P031, 3 MMBtu/hr Input Natural Gas Fired Dryer - GFP 98
16. P032, 6 MMBtu/hr Input Natural Gas Fired Dryer - GFP 102
17. P036, Landplaster Packer (12 TPH) 106
18. P039, Simplex Mixer 111
19. P041, Paint Mixers #2 and #3 116
20. P042, Gypsum Rock Dryer 122
21. P043, Two Sample Saws 131
22. P044, 75 Ton and 150 Ton Silo 134
23. P045, 15 Ton Top Bin 136
24. R004, Double Sided Spray Booth #2 - GFP 138
25. R006, GFP Flood Coater 141
26. R007, Inking Station #1 144
27. Emissions Unit Group -Group A: Kettles 148
28. Emissions Unit Group -Group B: Mixers 154

Authorization

Facility ID:	0362000078
Facility Description:	Gypsum products
Application Number(s):	A0044190, A0045881
Permit Number:	P0109878
Permit Description:	Title V permit renewal for US Gypsum, which is a manufacturer/producer of natural and synthetic construction products/materials; emissions units include operations generating particulate emissions and natural gas combustion sources.
Permit Type:	Renewal
Issue Date:	1/24/2013
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance

Superseded Permit Number: P0087395

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

US Gypsum Company
Lake Street
Gypsum, OH 43433

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

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

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, Northwest 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 (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
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

(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

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

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

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

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

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

(4) The analytical techniques or methods used.

(5) The results of such analyses.

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

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

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

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

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

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

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) 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 scheduled maintenance, 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 promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) 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 (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency 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."

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

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.

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

3. 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) 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 reissuance, or modification, or for denial of a permit renewal application.

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

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

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

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

Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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

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

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

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

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

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

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

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

11. Reopening for Cause

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

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

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

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

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

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

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

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

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

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

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

c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency) 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 (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

a. An identification of each term or condition of this permit that is the basis of the certification.

b. The permittee's current compliance status.

c. Whether compliance was continuous or intermittent.

d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.

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 appropriate Ohio EPA District Office or local air agency 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 appropriate District Office of the Ohio EPA or local air agency 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 Fed. Reg. 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 has 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.

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

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

23. Title VI Provisions

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

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

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

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

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

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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 appropriate Ohio EPA District Office or local air agency. 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 (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.)

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

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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 (i.e., postmarked) 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 potentials to emit; or

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

B. Facility-Wide Terms and Conditions

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

   a) None.

2. The following insignificant emissions unit is subject to 40 CFR 63.6580 et seq. (GACT Subpart ZZZZ): P028 -GFP -Emergency Generator (1200 HP) diesel; P046 -Diesel Fire Pump (141 HP); and P047 -Spare Baywater Pump (100 HP) diesel. Each is an 'existing stationary RICE (Reciprocating Internal Combustion Engine)' pursuant to 40 CFR 63.6590(a)(1)(iii).

   The applicable requirements are summarized below:

   a) The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions, or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
   [40 CFR 63.6625(e), and Table 6 to Subpart ZZZZ]

   b) The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
   [40 CFR 63.6625(h)]

   c) The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2d to Subpart ZZZZ, under the provisions of 40 CFR 63.6625(i).
   [Footnote 1 of Table 2d to Subpart ZZZZ]

   d) The permittee, having an existing stationary CI RICE(s) located at an area source of HAP emissions, must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.
   [40 CFR 63.6595(a)]

   e) The permittee must be in compliance with the applicable operating limitations in Subpart ZZZZ at all times.
   [40 CFR 63.6605(a)]

   f) At all times, the permittee must operate and maintain any affected source, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
   [40 CFR 63.6605(b)]

g) The permittee must demonstrate continuous compliance with each applicable operating limitation in Table 2d to Subpart ZZZZ according to methods specified in Table 6 to Subpart ZZZZ.
[40 CFR 63.6640(a)]

3. The permittee shall comply with the applicable operational restrictions required under 40 CFR 63 Subpart ZZZZ, including the following sections:

63.6640(f)(1)	operational hours restrictions (non- emergency use)
additional restrictions	See B.2.a) and B.2.b).

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

63.6655	record keeping, in accordance with (a)(2), (a)(4), (a)(5), (e), and (f)

5. The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart ZZZZ, including the following sections:

63.6640(b)	operational limitation deviation reporting
63.6650(f)	deviation reporting in accordance with the Standard Terms and Conditions in Part A of this permit (such reporting shall suffice for the Compliance report otherwise required by 40 CFR 63.6650)

6. The 40 CFR Part 63General Provisions apply to emissions units P028, P046, and P047, except [per 63.6645(a)(5)], the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
[Table 8 to Subpart ZZZZ]

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

B010 - Boiler(West) - 24 mmBTU/hr - Natural Gas (PBR06995)
B011 - Boiler(East) - 24 mmBTU/hr - Natural Gas (PBR07003)
P028 - IC Engine - GFP -Emergency Generator (PBR10259)
P046 - IC Engine - Diesel Fire Pump (PBR10259)
P047 - IC Engine - Spare Baywater Pump (PBR10259)
P048 - Portable Emergency Stand-by Diesel Generator; 100 KW Kohler (PBR10259)
T001 - Propane Fuel Storage and Dispensing

L001 - Cold Cleaners (Safety-Kleen Tanks)

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

C. Emissions Unit Terms and Conditions

1. B006, 82 mmBTU/hr Natural Gas Fired Boiler

Operations, Property and/or Equipment Description:

Boiler - 82 mmBTU/hr - n.g. (Boiler No. 6)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0105334 issued October 28, 2011)	8.04 lbs nitrogen oxides (NO_X) /hr; and 35.22 tons NO_X /yr 6.75 lbs carbon monoxide (CO) /hr; and 29.57 tons CO /yr 0.44 lb volatile organic compounds (VOC) /hr; 1.93 tons OC /yr 0.61 lb particulate matter less than 10 microns (PM_{10}) /hr; and 2.67 tons/yr [See b)(2)e.] 0.05 lb sulfur dioxide (SO_2) /hr; and 0.22 ton SO_2 /yr Visible PE shall not exceed 5% opacity, as a six-minute average. See b)(2)a.
b.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu of actual heat input See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.
d.	OAC rule 3745-18-06(G)	See b)(2)d.

(2) Additional Terms and Conditions

a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of natural gas. BAT requirements also include compliance with the terms and conditions of this permit.

b. The potential to emit for particulate emissions from this emissions unit is less than the allowable emission limitation established pursuant to this rule.

c. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

d. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

e. All emissions of particulate matter are PM_{10}.

f. The 8.04 lb NO_X/hr, 6.75 lb CO/hr, 0.61 lb PM_{10}/hr, 0.44 lb VOC/hr, and 0.05 lb SO_2/hr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

a. The emissions testing shall be conducted within 60 days after the first day of operation of this emissions unit under this permit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO_X and CO.

c. The following test method(s) shall be employed to meet the testing requirements above:

NO_X: Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A
CO: Methods 1 through 4 and 10, 40 CFR, Part 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

[OAC rule 3745-77-07(C)(1)]

(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(s):
8.04 lb NO_X /hr

Applicable Compliance Method:
The hourly allowable NO_X emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (80,000 cu. ft/hour) by the AP-42 emission factor for natural gas (Table 1.4-1 -Jul 98) of 100 lbs NO_X /mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s):
6.75 lb CO/hr

Applicable Compliance Method:
The hourly allowable CO emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (80,000 cu. ft/hour) by the AP-42 (Table 1.4-1 -Jul 98) emission factor for natural gas of 84 lbs NOx/mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s):
0.44 lb VOC/hr

Applicable Compliance Method:
The hourly allowable VOC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (80,000 cu. ft./hr) by the AP-42 emission factor for natural gas (Table 1.4-2 -Jul 98) of 5.5 lb VOC /mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

d. Emission Limitation(s):
0.05 lb SO_2/hr

Applicable Compliance Method:
The hourly allowable SO_2 emission limitation was established by multiplying the maximum hourly natural gas combustion rate (80,000 cu. ft./hr) by the AP-42 emission factorfor natural gas (Table 1.4-2 -Jul 98) of 0.6 lb SO_2 /mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 6.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e. Emission Limitation(s):
0.61 lb PM_{10} /hr

Applicable Compliance Method:
The hourly allowable PM_{10} emission limitation was established by limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (80,000 cu. ft/hour) by the AP-42 emission factor for natural gas (Table 1.4-2 -Jul 98) of 7.6 lbs PE/mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb PM_{10}/hr by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

f. Emission Limitation(s):
35.22 tons NO_X /yr
29.57 tons CO /yr
1.93 tons VOC /yr
0.22 tons SO_2 /yr
2.67 tons PM_{10} /yr

Applicable Compliance Method:
The annual emission limitations were developed by multiplying the hourly emission limitations by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g. Emission Limitation(s):
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
The permittee may demonstrate compliance by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 1.9 pounds PE /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with the methods specified in OAC rule 3745-17-03(B)(9).
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

h. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

2. B008, 125 MMBtu/hr Natural Gas Fired Boiler

Operations, Property and/or Equipment Description:

125 mmBTU/hr natural gas fired boiler

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.06 lb nitrogen oxides (NO_X) /mmBtu heat input (for heat input rates >37.5 mmBtu/hr) and 0.15 lb NO_X /mmBtu heat input (for heat input rates <37.5 mmBtu/hr) 7.5 lbs NO_X /hr; 32.9 tons NO_X per year 9.5 lbs carbon monoxide (CO) /hr; 41.6 tons CO per year
b.	OAC rule 3745-31-05(A)(3)(a)	0.67 lb organic compounds (OC) /hr; 2.93 tons OC/yr 0.93 lb particulate matter less than 10 microns (PM_{10}); 4.07 tons PM_{10} /yr 0.07 lb sulfur dioxide (SO_2) /hr; 0.31 tons SO_2 /yr See b)(2)b.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-17-10(B)(1)	0.020 lb PE /mmBtu of actual heat input, [See b)(2)d.]
d.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
e.	40 CFR 60.40b et seq. [NSPS Subpart Db]	See b)(2)e through b)(2)h.
f.	OAC rule 3745-18-06(G)	See b)(2)i.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be the use of natural gas [see c)(1)].

b. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of 'low NO_X burners'. BAT requirements also include compliance with the terms and conditions of this permit.

c. The emission limitations of 7.5 lb/hr and 32.85 tons per year of NO_X and 9.5 lb/hr and 41.61 tons per year of CO were established to reflect the potential to emit for this emissions unit. Therefore, no record keeping, deviation reporting or compliance calculations are required to demonstrate compliance with these limitations.

d. The potential to emit for particulate emissions from this emissions unit is less than the allowable emission limitation established pursuant to this rule.

e. The NO_X emission limitation specified by this rule (high heat release rate) is less stringent than the NO_X limitation established by OAC rule 3745-31-10 through OAC rule 3745-31-20.

f. The NO_X emission standard of NSPS Subpart Db of 0.20 lb per mmBtu shall apply at all times, including periods of startup, shutdown, or malfunction. Please note that the NSPS limit is less stringent than the limit established under OAC rule 3745-31-10 through 3745-31-20.
[40 CFR 60.44b(h)]

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

The plan shall include the requirement to conduct quarterly cylinder gas audits or relative accuracy audits as required in 40 CFR Part 60; and to conduct relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60.

h. The continuous emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

i. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105319]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain on-site, the document(s) of certification received from the U.S. EPA or the Ohio EPA's Central Office documenting that the continuous NO_x monitoring system has been certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6 (i.e. PS2 and PS6). The letter(s) /document(s) of certification shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

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.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

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

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

a. emissions of NO_X in parts per million on an instantaneous (one-minute) basis;

b. emissions of NO_X in pounds per million BTU heat input, and in pounds per hour;

c. results of quarterly cylinder gas audits;

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

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

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

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

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

i. the reason (if known) and the corrective actions taken (if any) for each such event in (g) and (h).

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(3) In lieu of installing a continuous emissions monitoring system (CEM) for NO_X, the permittee may elect to install a predictive emission monitoring system (PEMS) for the NO_X emissions. The PEMS shall be required to meet the promulgated requirements of PS 16.

After initial testing to assure the PEMS meets the performance specification 16, ongoing quality assurance/quality control shall include a Relative Accuracy Test Audit (RATA) once every four (or less) calendar quarters. RATA requirements are in addition to any and all PEMS manufacturer-suggested quality assurance/quality control procedures. RATA requirements shall include multi-load, multi-fuel (when applicable) testing. RATA testing shall be completed using the appropriate 40 CFR 60, Appendix A test methods (Methods 7E, 3A and 1-4 as necessary).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(4) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e) Reporting Requirements

(1) The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northwest District Office documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_X values in excess of the hourly emission limitation of 7.5 lbs NO_X/hr and 0.06 lb NO_X/mmBtu (or 0.15 lb NO_X/mmBtu, as applicable) of actual heat input. These reports shall also contain the total NO_X emissions for the calendar quarter (in tons).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

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

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of NO_X emissions in excess of any applicable limit specified in this permit, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

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

i. the facility name and address;

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

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

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

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

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

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

viii. results and dates of quarterly cylinder gas audits;

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

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

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

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

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

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

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

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

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(3) 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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

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

a. The emissions testing shall be conducted within 60 days after the first day of operation of this emissions unit under this permit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NO_X and CO, and lb/mmBtu (higher heat rate) for NO_X.

c. The following test method(s) shall be employed to meet the testing requirements above:

NO_X: Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A
CO: Methods 1 through 4 and 10, 40 CFR, Part 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

(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(s):</u>
0.06 lb NO_X /mmBtu heat input (>37.5 mmBtu/hr)
0.15 lb NO_X /mmBtu heat input (<37.5 mmBtu/hr)
7.50 lb NO_X /hr

<u>Applicable Compliance Method:</u>
The permittee shall demonstrate compliance with the lb NO_X /mmBtu limitation(s) above through the record keeping requirements specified in d)(1) or d)(2).

The BAT limitation established by PTI 03-11030 was 0.06 lb NO_X /mmBtu. Compliance with the hourly allowable NO_X emission limitation may be determined by multiplying the 0.06 lb NO_X /mmBtu allowable limitation (at the higher heat input rate) by the emissions unit's maximum heat input (125 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the both the lb NO_X /mmBTU and lb/hr emission limitations through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. Emission Limitation(s):
0.93 lb PM_{10} /hr

Applicable Compliance Method:
The hourly allowable PM_{10} emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (123,000 cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 7.6 lbs PE/mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb PM_{10} /hr by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

c. Emission Limitation(s):
9.5 lb CO/hr

Applicable Compliance Method:
The hourly emission limitation was established from the worst-case hourly emission rate, based on the recent stack test result of 9.5 lb CO /hr.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

d. Emission Limitation(s):
0.67 lb OC/hr

Applicable Compliance Method:
The hourly allowable OC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (123,000 cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb OC /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e. Emission Limitation(s):
0.07 lb SO_2 /hr, 0.31 tons/yr

Applicable Compliance Method:
The hourly allowable SO_2 emission limitation was established by multiplying the maximum hourly natural gas combustion rate (123,000 cu. ft./hr) by the emission

factor from AP-42 Table 1.4-2 (revised 07/98) of 0.6 lb SO_2 /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 6.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

f. Emission Limitation(s):
32.9 tons NO_X /yr
4.07 tons PM_{10} /yr
41.6 tons CO /yr
2.93 tons OC /yr
0.31 tons SO_2 /yr

Applicable Compliance Method:
The annual emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g. Emission Limitation(s):
0.020 lb PE /mmBtu of actual heat input

Applicable Compliance Method:
Compliance with the lb/mmBtu allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 7.6 lbs PE/mm cu. ft, and then dividing by the maximum heat input capacity of the emissions unit (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBTU PE limitation in accordance with the methods specified in OAC rule 3745-17-03(B)(9).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

h. Emission Limitation(s):
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

3. F002, Primary Crusher

Operations, Property and/or Equipment Description:

(synthetic) Gyspum Rock Crusher - 14 ton /hr (effectively) capacity

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0109773 issued September 24, 2012)	2.39 tonsfugitive particulate emissions (PE) per year Visible fugitive PE shall not exceed 15% opacity, as a six-minute average. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)c.]
b.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	See b)(2)d.
c.	OAC rule 3745-17-07(B)	See b)(2)e.
d.	OAC rule 3745-17-08(B)	See b)(2)f.

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures on the crushing operations associated with this emissions unit for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the material processed is at a level that is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

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

b. The above-mentioned control measure(s) shall be employed for the crushing operation 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.

c. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

d. The original crusher associated with this emissions unit was an “existing facility” as defined in 40 CFR 60.2. In 1991, the original crusher was replaced with a smaller crusher, permitted under PTI 03-5632 issued August 14, 1991. Therefore, pursuant to 40 CFR 60.670(d)(1), the new crusher is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675.

e. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

f. This facility is not located within an "Appendix A" area 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).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit to represent the maximum potential throughput for this emissions unit: aggregate throughput shall not exceed 122,640 tons per year.
[OAC rule 3745-77-07(A)(1) and PTI P0109773]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the amount of aggregate throughput for this emissions unit, in tons per month and total tons, to date, for the calendar year.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

(2) Except as otherwise provided in this section, the permittee shall perform visible emission inspections of crushing operations during representative, normal operating conditions in accordance with the following minimum frequencies:

Operation	**Minimum Inspection Frequency**
crushing	once per day of operation

[OAC rule 3745-77-07(C)(1) and PTI P0109773]

(3) The permittee shall maintain daily 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)(3)d shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

e) Reporting Requirements

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

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 implemented as a result of an inspection, was not implemented.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

(2) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth under NSPS Subpart OOO in this permit, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with this subpart.
[OAC rule 3745-77-07(C)(1), PTI P0109773, and 40 CFR 60.676(f)]

(3) In accordance with NSPS requirements, the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

a. for a crusher:

i. the rated capacity in tons per hour of the existing facility being replaced; and

ii. the rated capacity in tons per hour of the replacement equipment.

b. for a screening operation:

i. the total surface area of the top screen of the existing screening operation being replaced; and

ii. the total surface area of the top screen of the replacement screening operation.

c. for a conveyor belt:

i. the width of the existing belt being replaced; and

ii. the width of the replacement conveyor belt.

d. for a storage bin;

i. the rated capacity in tons of the existing storage bin being replaced; and

ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.
[OAC rule 3745-77-07(C)(1), PTI P0109773, 40 CFR 60.676(a)]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):</u>
2.39 ton fugitive PE per year

<u>Applicable Compliance Method:</u>
The annual limitation was developed by multiplying a maximum annual throughput rate of 122,640 tons by an emission factor of 0.039 lb per ton material processed [AP-42 Table 11.19-2], then dividing by 2000 lbs/ton. Therefore, provided compliance with the annual production restriction in c)(1) is shown, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

b. <u>Emission Limitation(s):</u>
Visible fugitive PE shall not exceed 15% opacity, as a six-minute average

<u>Applicable Compliance Method:</u>
If required, compliance with the visible emission limitation shall be determined in accordance with Method 9 as set forth in “Appendix on Test Methods” in 40 CFR, Part 60 (“Standards of Performance for New Stationary Sources”), and the modifications listed in paragraph (B)(3)(b) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

g) Miscellaneous Requirements

(1) None.

4. F004, Synthetic Gypsum Unloading, Storage & Conveying

Operations, Property and/or Equipment Description:

(synthetic) gypsum - unloading, storage, and conveyance /transfer operations - with in-line crusher to break apart any 'conglomerated' chunks (crusher is Emissions Unit F002)

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0109774 issued September 24, 2012)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 1.64 tons fugitive particulate matter less than 10 microns (PM_{10}) per rolling 12-month period 3.47 tons fugitive particulate emissions (PE) per rolling 12-month period Visible fugitive PE shall not exceed 10% opacity, as a six-minute average. [See b)(2)g.] Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)f.]
b.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	Visible fugitive emission restrictions [See b)(2)h.]
c.	OAC rule 3745-17-07(B)(1)	See b)(2)i.
d.	OAC rule 3745-17-08(B)(1)	See b)(2)j.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), BACT has been determined to be 'best available control measures'.

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

Excavator Unloader	Front End Loader
GFP Grizzly Screen	Mill Grizzly Feeder
A Belt Conveyor	D Belt Conveyor
B Belt Conveyor	Crusher Discharge Conveyor
C Belt Conveyor	Reclaim Conveyor
Dome Storage	#1 Conveyor
GFP Bin	Mill Rock Box
GFP Clay Feeder	Mill Clay Feeder
Weigh Belt	Dryer Feed Conveyor
Wet Screen	Synthetic Gypsum Storage Pile

The permittee shall employ best available control measures for the above-identified processes and material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials involved in the screening operation and associated material handling operations will in many instances be at a level which is more than sufficient to comply with applicable requirements. If at any time the inherent moisture content is not sufficient to meet the above applicable requirements, the permittee has committed to perform watering of the screening operation that will result in material with a sufficient moisture content that will minimize or eliminate visible emissions of fugitive dust for the screening operation and subsequent material handling operations.

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

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

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

e. 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 application, the permittee has committed to perform watering to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

f. The above-identified control measure 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 is necessary to ensure compliance with the above-mentioned applicable requirement. Implementation of the control measure 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 requirement.

g. Visible fugitive PE from any conveyance or transfer points associated with the equipment listed in b)(2)b shall not exceed 10% opacity, as a six-minute average.

h. Visible fugitive PE from the synthetic gypsum processing equipment included under this permit shall not exceed the following opacity restrictions:

Emission Point (Company ID)	**Equipment Type**	**Opacity Limit(as a 6-minute average)**	**Regulatory Basis for Limit**
Grizzly Feeder to (enclosed) D Belt Conveyor	Transfer Point	10 percent	NSPS Subpart OOO
D Belt Conveyor to Crusher	Crusher Inlet	15 percent	NSPS Subpart OOO
Crusher to (partially enclosed) Discharge Conveyor	Crusher Outlet	15 percent	NSPS Subpart OOO
Discharge Conveyor to (enclosed) Reclaim Belt Conveyor	Transfer Point	10 percent	NSPS Subpart OOO
Reclaim Belt Conveyor to (building contained) Conveyor #1	Transfer Point	7 percent *	NSPS Subpart OOO
Conveyor #1 to Rock Box (storage)	Transfer Point	7 percent *	NSPS Subpart OOO
Mill Rock Box (storage) to Clay Feeder (hopper)	Transfer Point	10 percent	NSPS Subpart OOO

Emission Point (Company ID)	Equipment Type	Opacity Limit(as a 6-minute average)	Regulatory Basis for Limit
Mill Clay Feeder (hopper) to (Rock Dryer feed) Conveyor	Transfer Point	7 percent *	NSPS Subpart OOO
Mill Rock Box (storage) direct feed to (Rock Dryer feed) Conveyor	Transfer Point	7 percent *	NSPS Subpart OOO

* For transfer points on a conveyor belt or other affected facilities enclosed in a building, the building enclosing the affected facilities must comply with the following emission limits: Fugitive emissions from the building openings must not exceed 7 percent opacity, in accordance with 40 CFR 60.672(e).

i. 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).

j. The facility 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)(1).

k. The equipment associated with this emissions unit prior to the Grizzly Feeder is not associated with the 'crusher line', and is therefore not subject to New Source Performance Standard (NSPS) Subpart OOO.

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 fugitive dust operations/sources in b)(2)b and wind erosion from the synthetic gypsum storage pile, in accordance with the following frequencies:

processing /handling operations:	minimum inspection frequency:
all	daily

[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a for a fugitive dust operation/source 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 event shall be performed as soon as such event(s) has (have) ended, except if the next inspection is within one week.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

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

a. the date and reason any required inspection was not performed;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);

c. the 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)(3)d shall be kept separately for each fugitive dust operation/source listed in b)(2)a, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursions) 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.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(2) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth under NSPS Subpart OOO in this permit, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with this subpart.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(f)]

(3) In accordance with NSPS requirements, the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

a. for a crusher:

i. the rated capacity in tons per hour of the existing facility being replaced; and

ii. the rated capacity in tons per hour of the replacement equipment.

b. for a screening operation:

i. the total surface area of the top screen of the existing screening operation being replaced; and

ii. the total surface area of the top screen of the replacement screening operation.

c. for a conveyor belt:

i. the width of the existing belt being replaced; and

ii. the width of the replacement conveyor belt.

d. for a storage bin;

i. the rated capacity in tons of the existing storage bin being replaced; and

ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(a)]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 60 days after achieving the maximum production rate at which the emissions unit will be operated but no later than 180 days after initial startup of the emissions unit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with: visible fugitive emissions limitation(s) as set forth in b)(2)h.

c. The following test method(s) shall be employed to meet the testing requirements above: Method 9 of 40 CFR Part 60 Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control

measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

[OAC 3745-77-07(C)(1) and PTI P0109774]

(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(s):</u>
1.64 tons of fugitive PM_{10} per rolling 12-month period
3.47 tons of fugitive PE per rolling 12-month period

<u>Applicable Compliance Method:</u>
Compliance with these emission limitations was determined by using emission factor equations in AP-42 Section 13.2.4, (revised 11/06), for load-in and load-out operations and the USEPA's Handbook for Dust Control at Hazardous Waste Sites equations for wind erosion. These emission limits were based on a maximum production of 367,500 tons per year, and a maximum storage surface area of 0.918 acres.

Therefore, provided compliance is shown with the requirement to apply best available control measures, compliance with the tons fugitive PM_{10} and PE per rolling, 12-month period limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

b. Emission Limitation(s):
Visible fugitive PE shall not exceed 15% opacity, as a six-minute average
[crusher discharge emissions - see b)(2)h]

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

c. Emission Limitation(s):
Visible fugitive PE shall not exceed 10% opacity, as a six-minute average
Visible fugitive PE shall not exceed 7% opacity (building enclosure)
[conveyance /transfer emissions - see b)(2)h]

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

d. Emission Limitation(s):
Visible fugitive PE shall not exceed 10% opacity, as a six-minute average
[all other emissions - see b)(2)b]

Applicable Compliance Method:
If required, compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures specified in 40 CFR, Part 60, Subpart OOO, Section 60.675.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

g) Miscellaneous Requirements

(1) None.

5. F005, Paved Roads & Parking Areas

Operations, Property and/or Equipment Description:

Plant Roads and Parking Lots

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI P0105334 issued October 28, 2011)	Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)f.] <u>Unpaved Roadways and Parking Areas</u>: 0.44 ton fugitive particulate matter less than 10 microns (PM_{10}) per year 1.50 tons fugitive particulate emissions (PE) per year no visible PE except for 3 minutes during any 60-minute period <u>Paved roadways and Parking Areas</u>: 1.61 tons fugitive PM_{10} per year 8.22 tons fugitive PE per year no visible PE except for one minute during any 60-minute period
b.	OAC rule 3745-17-07(B)	See b)(2)g.
c.	OAC rule 3745-17-08(B)	See b)(2)h.

(2) Additional Terms and Conditions

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

b. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for paved and unpaved roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

c. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

d. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

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

f. Any unpaved roadway or parking area that is subsequently paved, will require a permit to install modification for paved roadways and parking areas.

g. 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).

h. The facility 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)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

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

roadways and parking areas	minimum inspection frequency
all paved roads and parking areas	daily
all unpaved roads and parking areas	daily

[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

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

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

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

c. the dates the control measures were implemented; and

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

The information required in d)(3)d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify the following:

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.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s): (Unpaved Roadways and Parking Areas)
0.44 ton fugitive per year
1.50 tons fugitive PE per year

Applicable Compliance Method:
Compliance may be determined by multiplying the emission factor {for PM_{10} and PE based on pounds per vehicle mile traveled (VMT)} for unpaved roadways [from equation 1a in Chapter 13.2.2 of AP-42, Compilation of Air Pollution Emission Factors, Volume I: Stationary Point and Area Sources; Fifth Edition, (11/06)] by the maximum annual VMT.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s): (Paved Roadways and Parking Areas)
1.61 tons fugitive PM_{10} per year
8.22 tons fugitive PE per year

Applicable Compliance Method:
Compliance may be determined by multiplying the emission factor {for PM_{10} and PE based on pounds per vehicle mile traveled (VMT)} for unpaved roadways [from equation 1 in Chapter 13.2.1 of AP-42,, Compilation of Air Pollution Emission Factors, Volume I: Stationary Point and Area Sources; Fifth Edition, (11/06)] by the maximum annual VMT.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s):
(paved roadways and parking areas)
no visible PE, except for a period of time not to exceed one minute during any 60-minute observation period for paved roadways and parking areas, and

(unpaved roadways and parking areas)
no visible PE, except for a period of time not to exceed three minutes during any 60-minute observation period

Applicable Compliance Method:
Compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

6. P003, Perlite Expander

Operations, Property and/or Equipment Description:

Perlite Expander (with baghouse) - 2 mmBtu/hr n.g.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	<u>Baghouse emissions:</u> 1.46 lb particulate matter equal to or less than 10 microns in size (PM_{10}) /hr, and 6.39 ton PM_{10}/yr Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)a and b)(2)f.
b.	OAC rule 3745-31-05(A)(3)(a)	<u>Natural gas fuel burning emissions:</u> 0.20 lb nitrogen oxides (NO_X) /hr; and 0.88 ton NO_X /yr 0.16 lb carbon monoxide (CO) /hr; and 0.70 ton CO /yr 0.01 lb volatile organic compounds (VOC) /hr; and 0.04 ton VOC /yr See b)(2)b and b)(2)f.
	OAC rule 3745-17-07(A)	See b)(2)c.
	OAC rule 3745-17-11(B)(2)	See b)(2)d.
	OAC rule 3745-18-06(E)	See b)(2)e.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 1.46 lb PM_{10} /hr and 6.39 ton/yr; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average.

All emissions of particulate matter from the baghouse stack are PM_{10}.

b. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of natural gas. BAT requirements also include compliance with the terms and conditions of this permit.

c. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

e. The potential to emit for SO_2 from this emissions unit is 0.0012 lb/hr and complies with the emission limitation established pursuant to this rule. The potential to emit for SO_2 was determined by multiplying a maximum heat input of 2 mmBtu/hr, an emission factor of 0.6 lb SO_2 /mmscf of natural gas (AP-42, Section 1.4, Table 1.4-2, 7/98) and a heat content of 1020 BTU/scf.

f. All emissions of particulate matter are PM_{10}.

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grains PM_{10}/dscf.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

(2) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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 stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed.

If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) 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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):</u>
1.46 lb PM_{10} /hr

Applicable Compliance Method:
The hourly PM_{10} emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, by the maximum volumetric air flow rate (8510 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s):
0.20 lb NO_X /hr

Applicable Compliance Method:
The hourly allowable NO_X emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 100 lb NO_X /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s):
0.16 lb CO /hr

Applicable Compliance Method:
The hourly allowable CO emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84 lb CO/mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

d. Emission Limitation(s):
0.01 lb OC/hr

Applicable Compliance Method:
The hourly allowable OC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb OC/mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e. Emission Limitation(s):
6.39 ton PM_{10} /yr
0.88 ton NO_X /yr
0.70 ton CO /yr
0.04 tons OC/yr

Applicable Compliance Method:
The annual emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

f. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average from the stacks serving this emissions unit.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

7. P010, Joint Tape Lines 1 and 2

Operations, Property and/or Equipment Description:

Joint Tape Lines 1 and 2

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	<u>Baghouse emissions:</u> 2.06 lb particulate matter less than 10 microns (PM_{10}) /hr; 9.02 tons PM_{10} /yr. Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minuteaverage. <u>Fugitive emissions:</u> 0.90 ton fugitive PE /yr Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average, from building egress points. See b)(2)a and b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-07(B)	See b)(2)d.
d.	OAC rule 3745-17-08(B)	See b)(2)e.
e.	OAC rule 3745-17-11(B)(2)	See b)(2)f.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 2.06 lb PM_{10} /hr and 9.02 ton/yr; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the baghouse stacks.

All emissions of particulate matter from the baghouse stacks are PM_{10}.

b. This permit also establishes a 0.90 ton/yr federally enforceable emission limitation taking into account the use of a baghouse which vents into the building with a maximum outlet concentration of 0.01 gr PM_{10} /dscf and approximately 70 percent control efficiency for the building enclosure.

c. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule3745-31-05(D).

d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This facility is not located within an "Appendix A" area 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).

f. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. Particulate emissions from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.010 grains PM_{10}/dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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 stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) 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 building egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from building egress points associated with this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s): (from the baghouse stacks)
2.06 lb. PM_{10} /hr, 9.02 ton/yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.010 gr PM_{10} /dscf, by the maximum volumetric air flow rate (24,000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s): (from the building)
0.90 ton fugitive PE /yr

Applicable Compliance Method:
The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.01 gr/dscf, by the maximum volumetric air flow rate (8,000 dscfm) vented into the building from this baghouse, and using the following conversion factors in order to covert to tons per year: 1 lb/7000 grains, 60 minutes/hour, and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average from the stack(s) serving this emissions unit.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

d. Emission Limitation(s):
Visible PE from the building shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined according to Test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

8. P019, Landplaster Bin

Operations, Property and/or Equipment Description:

Landplaster Tanks

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011) note: a more recent PTI (P0109772) was issued September 24, 2012 for P036	1.03 lb particulate matter less than 10 microns in size (PM_{10}) per hour; 4.51 tons PM_{10} per year (for emissions units P019 and P036 combined) Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the shared baghouse stack. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 1.03 lbs PM_{10} /hr and 4.51 tons/yr (from the shared baghouse stack for emissions units P019 and P036 combined); and

ii. Visible PE shall not exceed 5% opacity, as a six-minute average.

All emissions of particulate matter from the baghouse stack are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

d. If this emissions unit (i.e. an existing facility under NSPS Subpart OOO) has a replacementof a piece of equipment of equal or smaller size, as defined in 40 CFR 60.671, having the same function as the existing facility /piece of equipment, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675 [except as provided for in 40 CFR 60.670(d)(3)], but shall be subject to the reporting requirements of 40 CFR 60.676(a).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from these emission units shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grain PM_{10} per dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0109772]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0109772]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA

district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
1.03 lb PM_{10} per hour; 4.51 ton PM_{10} per year

Applicable Compliance Method:
The hourly emissions limitation was established by multiplying the maximum baghouse outlet concentration of 0.020 gr/dscf, the maximum volumetric air flow rate (6000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors: 1 lb/7000 grains, and 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the gr/dscf emission limitations in accordance with Method 201 /201A, and 202, of 40 CFR 51, Appendix M.

The annual limitation was developed by multiplying the hourly limitation by 8760 hr/yr, and then dividing by 2000 lb/ton. Therefore, provided compliance with the hourly limitation is shown, compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
The permittee shall demonstrate compliance with the visible PE limitation based on the results of emission testing. [See f)(1) for emissions unit P036]
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

c. Emission Limitation(s):
0.022 gr PE /dscf (from the baghouse stack)

Applicable Compliance Method:
The permittee shall demonstrate compliance with the PE limitation based on the results of emission testing. [See f)(1) for emissions unit P036]
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

g) Miscellaneous Requirements

(1) None.

9. P022, Tube Mill

Operations, Property and/or Equipment Description:

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	0.22 lb particulate matter less than 10 microns (PM_{10}) /hr; and 0.98 ton PM_{10} /yr Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.22 lb PM_{10} /hr and 0.98 ton/yr; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average.

All emissions of particulate matter are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.010 grains PM_{10} /dscf.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.22 lb PM_{10} /hr; 0.98 ton PM_{10} /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.01 gr PM_{10} /dscf, by the maximum volumetric air flow rate (24,000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

10. P023, East & West Packers

Operations, Property and/or Equipment Description:

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	1.25 lb particulate matter less than 10 microns (PM_{10}) /hr; and 5.48 ton PM_{10} /yr Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 1.25 lb PM_{10} /hr and 5.48 ton/yr; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average.

All emissions of particulate matter are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.02 grains PM_{10} /dscf.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
1.25 lb PM_{10} /hr; 5.48 ton PM_{10} /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr PM_{10} /dscf, by the maximum volumetric air flow rate (24,000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

11. P026, Finishing Operations: Sanders, Brushes, Saws - GFP

Operations, Property and/or Equipment Description:

GFP Finishing - Sanders, Brushes, Saws

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.0053 grain particulate matter less than 10 microns (PM_{10}) per dry standard cubic foot (dscf) 15.0 tons PM_{10} per rolling 12-month period Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)d.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be the use of a baghouse capable of meeting a maximum outlet concentration of 0.0053 gr PM_{10}/dscf.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stacks serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 3 months after issuance of this permit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission outlet concentration limit for PM_{10}.

c. The following test method(s) shall be employed to meet the testing requirements above: Method 201 /201A, and 202, of 40 CFR 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04,

etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

(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(s):
0.0053 gr PM_{10} /dscf
15.0 tons PM_{10} per rolling 12-month period

Applicable Compliance Method:
The gr PM_{10} /dscf emission limitation was established from the worst case outlet grain loading, based on the recent stack test result of 0.0050 gr PM_{10} /dscf and a 5% safety factor. The annual (i.e. rolling 12-month) limitation was established by multiplying the maximum baghouse outlet concentration of 0.0053 gr/dscf, the maximum volumetric air flow rate (75,000 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to covert to tons per year: 1 lb/7000 grains, 60 minutes/hour, 8760 hours/year and 1 ton/2000 lbs. Therefore, provided compliance is demonstrated with the 0.0053 gr PM_{10} /dscf limitation, compliance with the annual PM_{10} limitation shall be demonstrated.

If required, the permittee shall demonstrate compliance with the gr PM_{10} /dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

12. P027, 76 MMBtu/hr, 28 Zone Direct Fired Natural Gas Kiln

Operations, Property and/or Equipment Description:

28 Zone Kiln (GFP) - 76 mmBtu/hr - n.g.

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) d)(2) through d)(5).

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a. and b)(2)b.] 7.45 lbs nitrogen oxides (NO_X) /hr; 32.6 tons NO_X per rolling 12-month period 24.2 lbs carbon monoxide (CO) /hr; 106 tons CO per rolling 12-month period 13.9 lbs organic compounds (OC) /hr; 60.9 tons per rolling 12-month period 9.5 lbs particulate matter less than 10 microns (PM_{10}) /hr; 41.6 ton PM_{10} per rolling 12-month period
b.	OAC rule 3745-31-05(A)(3) (PTI P0105319 issued August 3, 2011)	0.04 lb sulfur dioxide (SO_2) /hr; 0.18 ton SO_2 /year
c.	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-11(B)	See b)(2)b.
e.	OAC rule 3745-18-06(G)	See b)(2)c.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be good combustion practices and the use of natural gas [see c)(1)].

b. This emissions limit specified by this rule is less stringent that the emission limitation established pursuant to OAC rule 3745-31-10 through 31-20.

c. This emissions limit specified by this rule is less stringent that the emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(a).

d. The emission limitations of 7.45 lb/hr and 32.6 tons per year of NO_X, 24.2 lb/hr and 106 tons per year of CO, 13.9 lb/hr and 60.9 tons per year of OC, and 9.5 lb/hr and 41.6 tons per year of PM_{10} were established to reflect the potential to emit for this emissions unit. Therefore, no record keeping, deviation reporting or compliance calculations are required to demonstrate compliance with these limitations.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105319]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) The permit to install for this emissions unit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Formaldehyde
TLV (ug/m3): 272
Maximum Hourly Emission Rate (lb/hour): 1.84
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 6.08
MAGLC (µg /m3): 6.47
[PTI P0105319]

(3) Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

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

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant* with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

* Only compounds / pollutants as identified in OAC rule 3745-114-01 at the time of the change will be subject to re-evaluation.

[PTI P0105319]

(4) If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.
[PTI P0105319]

(5) The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

[PTI P0105319]

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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted as follows:

i. within three months after issuance of this permit, and annually thereafter, for CO and NO_X

ii. within three months after issuance of this permit, and between 24 and 36 monthsafter issuance of this permit, for OC and PM_{10}

Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for CO, NO_X, OC, and PM_{10}:

c. The following test method(s) shall be employed to meet the testing requirements above:

NO_X: Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A

CO: Methods 1 through 4 and 10, of 40 CFR, Part 60, Appendix A

OC: Methods 1 - 4, and 18, 25, or 25Aof 40 CFR, Part 60, Appendix A

PM_{10}: Methods 201/201A of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

(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(s):</u>
24.2 lb CO /hr

<u>Applicable Compliance Method:</u>
The hourly emission limitation was established from the worst case hourly emission rate, based on the recent stack test result of 21.0 lb CO/hr and a 15% safety factor.

The permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with f)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. <u>Emission Limitation(s):</u>
7.45 lb NO_X /hr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum hourly natural gas combustion rate (74.5 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 100 lb NOx /mm cu. ft. of natural gas.

The permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with f)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

c. Emission Limitation(s):
13.9 lb OC/hr

Applicable Compliance Method:
The hourly emission limitation was established from the worst case hourly emission rate, based on the recent stack test result of 12.1 lb OC/hr and a 15% safety factor.

The permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with f)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

d. Emission Limitation(s):
9.5 lb PM_{10} /hr

Applicable Compliance Method:
The hourly emission limitation was established from the worst case hourly emission rate, based on the recent stack test result of 8.64 lb PM_{10} /hr and a 10% safety factor.

The permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with f)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e. Emission Limitation(s):
0.04 lb SO_2 /hr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum hourly natural gas combustion rate (74.5 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 0.6 lb SO_2 /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with CFR, Part 60, Appendix A, Methods 1 - 4, and 6.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

f. Emission Limitation(s):
106 tons CO per rolling 12-month period
32.6 tons NO_X per rolling 12-month period
60.9 tons OC per rolling 12-month period

41.6 ton PM_{10} per rolling 12-month period
0.18 ton SO_2 per year

Applicable Compliance Method:
The annual (and rolling 12-month) emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g. Emission Limitation(s):
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

13. P029, Stucco Conveying, Grinding & Storage Operations - GFP

Operations, Property and/or Equipment Description:

GFP - Stucco Conveying, Grinding, and Storage

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0109774 issued September 24, 2012)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.020 grain particulate matter less than 10 microns (PM_{10}) per dry standard cubic foot (dscf); 0.75 ton PM_{10}per year Visible (stack) PE shall not exceed 5% opacity, as a 6-minute average. 0.013 ton fugitive particulate emissions (PE) per year See b)(2)a. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b through b)(2)d.]
b.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	0.022 gr PE /dscf (from the baghouse stack) Visible fugitive emission restrictions [See b)(2)e.] See b)(2)f.
c.	OAC rule 3745-17-07(A)	See b)(2)g.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-11(B)(2)	See b)(2)g.
e.	OAC rule 3745-17-07(B)(1)	See b)(2)h.
f.	OAC rule 3745-17-08(B)(1)	See b)(2)i.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), BACT has been determined to be the use of a baghouse capable of meeting a maximum outlet concentration of 0.020 gr PM_{10}/dscf, and best available control measures for the bucket elevator transfer fugitive emissions.

b. The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance: reduced drop heights for transfer points.

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

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

d. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

e. Visible fugitive PE from any conveyance or transfer points associated with the this emissions unit shall not exceed 10% opacity, as a six-minute average, in accordance with 40 CFR 60.672(b).

For transfer points on a conveyor belt or other affected facilities enclosed in a building, the building enclosing the affected facilities must comply with the following emission limits: Fugitive emissions from the building openings must not exceed 7 percent opacity, in accordance with 40 CFR 60.672(e).

f. The visible (stack) PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

h. 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).

i. The facility 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)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(2) Except as otherwise provided in this section, the permittee shall perform inspections of the bucket elevator conveyance or transfer points, in accordance with the following frequencies:

processing /handling operations:	minimum inspection frequency:
bucket elevator conveyance /transfer	daily

[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(3) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures for particulate emissions. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a for a fugitive dust operation/source 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 event shall be performed as soon as such event(s) has (have) ended, except if the next inspection is within one week.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(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 kept separately for each fugitive dust operation/source, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(2) The permittee shall submit quarterly deviation (excursions) 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.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(3) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth under NSPS Subpart OOO in this permit, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with this subpart.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(f)]

(4) In accordance with NSPS requirements, the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

a. for a crusher:

i. the rated capacity in tons per hour of the existing facility being replaced; and

ii. the rated capacity in tons per hour of the replacement equipment.

b. for a screening operation:

i. the total surface area of the top screen of the existing screening operation being replaced; and

ii. the total surface area of the top screen of the replacement screening operation.

c. for a conveyor belt:

i. the width of the existing belt being replaced; and

ii. the width of the replacement conveyor belt.

d. for a storage bin;

i. the rated capacity in tons of the existing storage bin being replaced; and

ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(a)]

(5) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 60 days after achieving the maximum production rate at which the emissions unit will be operated but no later than 180 days after initial startup of the emissions unit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the following:

   i. allowable mass emission outlet concentration limit for PE.

   ii. visible (stack) emissions limitations as set forth in b)(1)a.

   iii. visible fugitive emissions limitation(s) as set forth in b)(2)e.

c. The following test method(s) shall be employed to meet the testing requirements above:

   i. Methods 1 - 5, of 40 CFR 60, Appendix A

   ii. Method 9 of 40 CFR 60, Appendix A

   iii. Method 9 of 40 CFR 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

   Personnel from the Northwest 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.

f. 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 Northwest 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 Northwest District Office.

g. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04,

etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

[OAC 3745-77-07(C)(1) and PTI P0109774]

(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(s):
0.020 gr PM_{10} /dscf, 0.75 ton PM_{10} per year

Applicable Compliance Method:
The 0.020 gr PM_{10} /dscf emission limitation was established in accordance with the manufacturer's baghouse specifications. The annual limitation was established by multiplying the gr/dscf emission limitation by the maximum volumetric air flow rate (1000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to tons per year: 1 lb/7000 grains, 60 minutes/hour, 8760 hours/year, and 1 ton/2000 lbs. Therefore, provided compliance is shown for the 0.020 gr PM_{10} /dscf limitation compliance with the tons PM_{10} per rolling 12-month period limitation shall be demonstrated.

If required, the permittee shall demonstrate compliance with the gr PM_{10} /dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

b. Emission Limitation(s):
0.013 ton fugitive PE per year

Applicable Compliance Method:
The annual limitation was developed by multiplying a maximum annual throughput rate of 8760 tons by an emission factor of 0.0030 lb per ton material processed [AP-42 Table 11.19-2 (controlled)], then dividing by 2000 lbs/ton. Therefore, provided compliance with the production restriction in c)(1) is shown, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

c. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

d. Emission Limitation(s):
Visible fugitive PE shall not exceed 10% opacity, as a six-minute average

[conveyance /transfer emissions - see b)(2)e]

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

e. Emission Limitation(s):
0.022 gr PE /dscf (from the baghouse stack)

Applicable Compliance Method:
Compliance with the PE emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

f. Emission Limitation(s):
Visible fugitive PE shall not exceed 10% opacity, as a six-minute average
Visible fugitive PE shall not exceed 7% opacity (building enclosure)
[conveyance /transfer emissions - see b)(2)e]

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

g) Miscellaneous Requirements

(1) None.

14. P030, Fine Landplaster Conveying & Storage Operations - GFP

Operations, Property and/or Equipment Description:

Landplaster Conveying and Storage

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0112534 issued January 18, 2013)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.020 grain particulate matter less than 10 microns (PM_{10}) per dry standard cubic foot (dscf) 0.54 ton PM_{10} per year Visible particulate emissions (PE) shall not exceed 5% opacity, as a 6-minute average. See b)(2)a.
b.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	Visible emission restrictions [See b)(2)b.]
c.	OAC rule 3745-17-07(A)	See b)(2)c.
d.	OAC rule 3745-17-11(B)(2)	See b)(2)d.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), BACT has been determined to be the use of a baghouse capable of meeting a maximum outlet concentration of 0.020 gr PM_{10}/dscf.

b. This baghouse controls emissions from only an individual enclosed storage bin, and is exempt pursuant to 40 CFR 60.672(f) from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of NSPS Subpart OOO, but must meet the applicable stack opacity limit and compliance requirements in Table 2 (i.e. 7 percent opacity). This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

The 7 percent opacity limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.
[40 CFR 60.672(f)]

c. The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

d. The PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-10 through OAC rule 3745-31-20.

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible

particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

(2) The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth under NSPS Subpart OOO in this permit, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with this subpart.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(f)]

(3) In accordance with NSPS requirements, the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

a. for a crusher:

i. the rated capacity in tons per hour of the existing facility being replaced; and

ii. the rated capacity in tons per hour of the replacement equipment.

b. for a screening operation:

i. the total surface area of the top screen of the existing screening operation being replaced; and

ii. the total surface area of the top screen of the replacement screening operation.

c. for a conveyor belt:

i. the width of the existing belt being replaced; and

ii. the width of the replacement conveyor belt.

d. for a storage bin;

i. the rated capacity in tons of the existing storage bin being replaced; and

ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.
[OAC rule 3745-77-07(C)(1), PTI P0109774, and 40 CFR 60.676(a)]

(4) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 60 days after achieving the maximum production rate at which the emissions unit will be operated but no later than 180 days after initial startup of the emissions unit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the following: visible (stack) PE emissions limitation.

c. The following test method(s) shall be employed to meet the testing requirements above: Method 9 of 40 CFR 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04,

etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.
[OAC 3745-77-07(C)(1) and PTI P0109774]

(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(s):
0.020 gr PM_{10} /dscf, 0.54 ton PM_{10} per year

Applicable Compliance Method:
The 0.020 gr PM_{10} /dscf emission limitation was established in accordance with the manufacturer's baghouse specifications. The annual limitation was established by multiplying the gr/dscf emission limitation by the maximum volumetric air flow rate (725 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to tons per year: 1 lb/7000 grains, 60 minutes/hour, 8760 hours/year, and 1 ton/2000 lbs. Therefore, provided compliance is shown for the 0.020 gr PM_{10} /dscf limitation compliance with the tons PM_{10} per rolling 12-month period limitation shall be demonstrated.

If required, the permittee shall demonstrate compliance with the gr PM_{10} /dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
Compliance with the visible emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

c. Emission Limitation(s):
0.022 gr PE /dscf (from the baghouse stack)

Applicable Compliance Method:
Compliance with the PE emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109774]

g) Miscellaneous Requirements

(1) None.

15. P031, 3 MMBtu/hr Input Natural Gas Fired Dryer - GFP

Operations, Property and/or Equipment Description:

dryer - 3 mmBTU/hr (for spray booth No. 3)

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.29 lb nitrogen oxides (NO_X) /hr 1.27 tons NO_X per rolling 12-month period 0.25 lb carbon monoxide (CO) /hr 1.10 tons CO per rolling 12-month period
b.	OAC rule 3745-31-05(A)(3) (PTI P0105319 issued August 3, 2011)	0.02 lb particulate matter less than 10 microns (PM_{10}) /hr; and 0.09 ton PM_{10} /yr 0.02 lb organic compounds (OC) /hr; and 0.09 ton OC /yr Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average. See b)(2)b.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	OAC rule 3745-17-07(A)	See b)(2)d.
e.	OAC rule 3745-18-06(E)	See b)(2)e.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be the use of natural gas [see c)(1)].

b. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of natural gas. BAT requirements also include compliance with the terms and conditions of this permit.

c. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Ottawa County.

d. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

e. This emissions unit has a rated capacity of less than one thousand pounds per our process weight input. Therefore, it is exempt from OAC rule 3745-18-06(E), pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105319]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.29 lb NO_X /hr

Applicable Compliance Method:
The hourly allowable NO_X emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 100 lb NO_X /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. Emission Limitation(s):
0.25 lb CO /hr

Applicable Compliance Method:
The hourly allowable CO emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84 lb CO /mm cu. ft. of natural gas. Compliance with the tons CO per rolling, 12-month period emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

c. Emission Limitation(s):
0.02 lb PM_{10} /hr

Applicable Compliance Method:
The hourly allowable PM_{10} emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 7.6 lb PM_{10} /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

d. Emission Limitation(s):
0.02 lb OC /hr

Applicable Compliance Method:
The hourly allowable OC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (2.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb OC/mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e. Emission Limitation(s):
1.27 tons NO_X per rolling 12-month period
1.10 tons CO per rolling 12-month period
0.09 ton PM_{10} per year
0.09 tons OC per year

Applicable Compliance Method:
The annual (and rolling 12-month) emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

f. Emission Limitation(s):
Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources."
Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

16. P032, 6 MMBtu/hr Input Natural Gas Fired Dryer - GFP

Operations, Property and/or Equipment Description:

dryer - 6 mmBTU/hr (for spray booth No. 2)

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.59 lb nitrogen oxides (NO_X) /hr 2.58 tons NO_X per rolling 12-month period 0.49 lb carbon monoxide (CO) /hr 2.15 tons CO per rolling 12-month period
b.	OAC rule 3745-31-05(A)(3) (PTI P0105319 issued August 3, 2011)	0.04 lb particulate matter less than 10 microns (PM_{10}) /hr; and 0.18 ton PM_{10} /yr 0.03 lb organic compounds (OC) /hr; and 0.13 ton OC /yr Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average. See b)(2)b.
c.	OAC rule 3745-17-11(B)	See b)(2)c.
d.	OAC rule 3745-17-07(A)	See b)(2)d.
e.	OAC rule 3745-18-06(E)	See b)(2)e.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be the use of natural gas [see c)(1)].

b. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of natural gas. BAT requirements also include compliance with the terms and conditions of this permit.

c. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Ottawa County.

d. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

e. This emissions unit has a rated capacity of less than one thousand pounds per our process weight input. Therefore, it is exempt from OAC rule 3745-18-06(E), pursuant to OAC rule 3745-18-06(C).

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105319]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

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 within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.59 lb NO_X /hr

Applicable Compliance Method:
The hourly allowable NO_X emission limitation was established by multiplying the maximum hourly natural gas combustion rate (5.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 100 lb NO_X /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. Emission Limitation(s):
0.49 lb CO /hr

Applicable Compliance Method:
The hourly allowable CO emission limitation was established by multiplying the maximum hourly natural gas combustion rate (5.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84 lb CO /mm cu. ft. of natural gas. Compliance with the tons CO per rolling, 12-month period emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

c. Emission Limitation(s):
0.04 lb PM_{10} /hr

Applicable Compliance Method:
The hourly allowable PM_{10} emission limitation was established by multiplying the maximum hourly natural gas combustion rate (5.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 7.6 lb PM_{10} /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

d. Emission Limitation(s):
0.03 lb OC /hr

Applicable Compliance Method:
The hourly allowable OC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (5.9 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb OC/mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e. Emission Limitation(s):
2.58 tons NO_X per rolling 12-month period
2.15 tons CO per rolling 12-month period
0.18 ton PM_{10} per year
0.13 tons OC per year

Applicable Compliance Method:
The annual (and rolling 12-month) emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

f. Emission Limitation(s):
Visible PE shall not exceed 10% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources."
Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

17. P036, Landplaster Packer (12 TPH)

Operations, Property and/or Equipment Description:

Landplaster Packer

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0109772 issued September 24, 2012)	1.03 lb particulate matter less than 10 microns in size (PM_{10}) per hour; 4.51 tons PM_{10} per year (for emissions units P019 and P036 combined) Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)a.
b.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	0.022 gr PE /dscf (from the baghouse stack) See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)b.
d.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 1.03 lbs PM_{10} /hr and 4.51 tons/yr (from the shared baghouse stack for emissions units P019 and P036 combined); and

ii. Visible PE shall not exceed 5% opacity, as a six-minute average.

All emissions of particulate matter from the baghouse stack are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from these emission units shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grain PM_{10} per dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0109772]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0109772]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(C)(1) and PTI P0109772]

(2) In accordance with NSPS requirements, the permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:

a. for a crusher:

i. the rated capacity in tons per hour of the existing facility being replaced; and

ii. the rated capacity in tons per hour of the replacement equipment.

b. for a screening operation:

i. the total surface area of the top screen of the existing screening operation being replaced; and

ii. the total surface area of the top screen of the replacement screening operation.

c. for a conveyor belt:

i. the width of the existing belt being replaced; and

ii. the width of the replacement conveyor belt.

d. for a storage bin;

i. the rated capacity in tons of the existing storage bin being replaced; and

ii. the rated capacity in tons of the replacement storage bins.

The notification shall be submitted to the Ohio EPA Northwest District Office within 30 days after the equipment replacement.
[OAC rule 3745-77-07(C)(1), PTI P0109772, and 40 CFR 60.676(a)]

(3) All reports shall be submitted electronically through Ohio EPA, Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 60 days after achieving the maximum production rate at which the emissions unit will be operated but no later than 180 days after initial startup of the emissions unit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the following:

   i. allowable mass emission outlet concentration limit for PE

   ii. visible (stack) PE limitation

c. The following test method(s) shall be employed to meet the testing requirements above:

   i. Methods 1 - 5, of 40 CFR 60, Appendix A

   ii. Method 9 of 40 CFR 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

[OAC 3745-77-07(C)(1) and PTI P0109772]

(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(s):
1.03 lb PM_{10} per hour; 4.51 ton PM_{10} per year

Applicable Compliance Method:
The hourly emissions limitation was established by multiplying the maximum baghouse outlet concentration of 0.020 gr/dscf, the maximum volumetric air flow rate (6000 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors: 1 lb/7000 grains, and 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the gr/dscf emission limitations in accordance with Method 201 /201A, and 202, of 40 CFR 51, Appendix M.

The annual limitation was developed by multiplying the hourly limitation by 8760 hr/yr, and then dividing by 2000 lb/ton. Therefore, provided compliance with the hourly limitation is shown, compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
The permittee shall demonstrate compliance with the visible PE limitation based on the results of emission testing. [See f)(1).]
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

c. Emission Limitation(s):
0.022 gr PE /dscf (from the baghouse stack)

Applicable Compliance Method:
The permittee shall demonstrate compliance with the PE limitation based on the results of emission testing. [See f)(1).]
[OAC rule 3745-77-07(C)(1) and PTI P0109772]

g) Miscellaneous Requirements

(1) None.

18. P039, Simplex Mixer

Operations, Property and/or Equipment Description:

Simplex Mixer (with baghouse vented inside building)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0110890 issued October 16, 2012)	<u>Baghouse emissions</u>: 0.10 lb particulate matter less than 10 microns (PM_{10}) /hr; 0.44 tons PM_{10} /yr <u>Non-baghouse emissions:</u> 0.05 ton fugitive particulate emissions (PE) per rolling 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from any building egress points. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-07(B)	See b)(2)c.
d.	OAC rule 3745-17-08(B)	See b)(2)d.
e.	OAC rule 3745-17-11(B)(2)	See b)(2)e.

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.10 lb PM_{10} /hr and 0.44 ton/yr (baghouse emissions); and

ii. 0.05 ton of PE per rolling 12-month period (non-baghouse emissions).

All emissions of particulate matter from the baghouse stack(s) are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

d. This facility is not located within an "Appendix A" area 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. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. Particulates from this emission unit shall be vented to a baghouse system capable of achieving 99 percent capture and a maximum outlet concentration of 0.020 grains PM_{10} /dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0110890]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, 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: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not

eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 0.5 to 8.0 inches of water.

This range(s) 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(s) 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(s) 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.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

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

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0110890]

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(s) was outside the acceptable range(s);

b. an identification of each incident of deviation described in e)(1)a above where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(1)a where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in e)(1)a where proper records were not maintained for the investigation and/or the corrective action.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from building egress points associated with each emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s): from the baghouse stack
0.10 lb PM_{10} /hr, 0.44 tons PM_{10} /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr PM_{10} /dscf, by the maximum volumetric air flow rate (588 acfm) contributed to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

b. Emission Limitation(s): from the building
0.05 ton PE per rolling 12-month period

Applicable Compliance Method:
Compliance may be determined by multiplying the AP-42 Table 11.17-4emission factor of 2.2 lb/tonmaterial processed by the maximum production rate of 1.66 tons/hr, and further multiplying by 0.01 (for 99 percent baghouse capture efficiency), and by 0.30 (approximately 70 percent building containment /settling), and by 8760 hours/year and 1 ton/2000 lbs.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

c. Emission Limitation(s):
Visible PE from the building(s) shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined according to Test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources." and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

g) Miscellaneous Requirements

(1) None.

19. P041, Paint Mixers #2 and #3

Operations, Property and/or Equipment Description:

Paint Mixers No. 2 and 3 (with baghouse vented inside building)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0110890 issued October 16, 2012)	<u>Baghouse emissions</u>: 0.43 lb particulate matter less than 10 microns (PM_{10}) /hr; 1.88 tons PM_{10} /yr <u>Non-baghouse emissions:</u> 1.01 ton fugitive particulate emissions (PE) per rolling 12-month period Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from any building egress points. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)	2.45 lbs volatile organic compounds (VOC) /hr, and 10.73 tons VOC /yr See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.
d.	OAC rule 3745-17-07(B)	See b)(2)d.
e.	OAC rule 3745-17-08(B)	See b)(2)e.
f.	OAC rule 3745-17-11(B)(2)	See b)(2)f.

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.43 lb PM_{10} /hr and 1.88 ton/yr (baghouse emissions); and

ii. 1.01 ton of PE per rolling 12-month period (non-baghouse emissions).

All emissions of particulate matter from the baghouse stack(s) are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

d. This facility is not located within an "Appendix A" area 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. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

f. The emission limitations of 2.45 lbs of VOC /hr and 10.7 tons /yr were established to reflect the potential to emit for this emissions unit. Therefore, no record keeping, deviation reporting or compliance method calculations are required to demonstrate compliance with these limitations.

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. Particulates from this emission unit shall be vented to a baghouse system capable of achieving 99 percent capture and a maximum outlet concentration of 0.020 grains PM_{10} /dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0110890]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control

equipment within the acceptable range(s) specified below, 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: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 0.5 to 8.0 inches of water.

This range(s) 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(s) 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(s) 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.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

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

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0110890]

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(s) was outside the acceptable range(s);

b. an identification of each incident of deviation described in e)(1)a above where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in e)(1)a where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in e)(1)a where proper records were not maintained for the investigation and/or the corrective action.

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

[OAC rule 3745-77-07(C)(1) and PTI P0110890]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from building egress points associated with each emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):</u> from the baghouse stack
0.43 lb PM_{10} /hr, 1.88 tons PM_{10} /yr

<u>Applicable Compliance Method:</u>
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr PM_{10} /dscf, by the maximum volumetric air flow rate (2500 acfm) contributed to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

b. Emission Limitation(s): from the building
1.01 ton PE per rolling 12-month period

Applicable Compliance Method:
Compliance may be determined by multiplying the AP-42 Table 6.4-1emission factor of 20 lb/tonmaterial processed by the maximum production rate of 600 gal/hr, and by 12.8 lb PE (solids) per gallon and 1 ton/2000 lbs, and further multiplying by 0.01 (for 99 percent baghouse capture efficiency), and by 0.30 (approximately 70 percent building containment /settling), and by 8760 hours/year and 1 ton/2000 lbs.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

c. Emission Limitation:
2.45 lbs VOC/hr, 10.7 tons VOC /yr

Applicable Compliance Method:
The hourly and annual emission limitations represent the potential to emit* of the emissions unit. Therefore, no record keeping, reporting, or compliance method calculations are required to demonstrate compliance with this limitation.

* The potential to emit for this emissions unit is based on multiplying the AP-42 5.2-4 (dated 1/95) loading emission factor of 4.08 lb VOC/1000 gallon by the maximum production rate of 600 gallons per hour. The annual potential to emit is based on the hourly potential to emit and a maximum operating schedule of 8760 hrs/yr.

If required, compliance with the VOC emission limitation shall be determined in accordance with the test methods and procedures in Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

d. Emission Limitation(s):
Visible PE from the building(s) shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined according to Test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources." and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI P0110890]

g) Miscellaneous Requirements

(1) None.

20. P042, Gypsum Rock Dryer

Operations, Property and/or Equipment Description:

(synthetic) Gyspum Rock Dryer - fluidized bed (with baghouse /separator) 14 ton/hr - with enclosed screening aspirated to the baghouse, and fugitive emissions from screen 'reject' storage pile

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0109773 issued September 24, 2012)	<u>Baghouse /separator stack:</u> 0.010 grain particulate matter less than 10 microns (PM_{10}) per dry standard cubic foot (dscf) 4.86 tonsPM_{10}per year Visible particulate emissions (PE) shallnot exceed 5% opacity, as a six-minuteaverage. <u>Fugitive emissions:</u> 0.0063 ton fugitive PE per year [See also opacity restriction in b)(2)e.] See b)(2)a, b)(2)j, and c)(1).
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/2001	0.10 lb nitrogen oxides (NO_X) /mmBtu; 3.42 tons NO_X per year 0.084 lb carbon monoxide (CO) /mmBtu; 2.89 tons CO per year 0.0055 lb volatile organic compounds (VOC) /mmBtu; 0.18 ton VOC per year 0.0006 lb sulfur dioxide (SO_2) /mmBtu; 0.022 ton SO_2 per year

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)b.
c.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/2006	See b)(2)c and b)(2)d.
d.	40 CFR 60.730 et seq. (NSPS Subpart UUU)	0.025 gr PE /dscf (from the baghouse /separator stack) See b)(2)g.
e.	40 CFR 60.670 et seq. (NSPS Subpart OOO)	See b)(2)f.
f.	OAC rule 3745-17-07(A)	See b)(2)h.
g.	OAC rule 3745-17-07(B)	See b)(2)i.
h.	OAC rule 3745-17-08(B)	See b)(2)j.
i.	OAC rule 3745-17-11(B)	See b)(2)g.
j.	OAC rule 3745-18-06(E)(2)	See b)(2)k.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE) to avoid Prevention of Significant Deterioration (PSD) requirements. The federally enforceable emission limitations established in b)(1)a are based on the operational restriction contained in c)(1) which requires control equipment.

All emissions of particulate matter from the baghouse /separator stack are PM_{10}. PM_{10} emissions from natural gas combustion are negligible and are not addressed in the PM_{10} stack emission limitation.

b. 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.

c. This rule applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements listed under OAC rule 3745-31-05(A)(3) do not apply to the NO_X, CO, VOC, or SO_2 emissions from this air contaminant source since the uncontrolled potential to emit is less than 10 tons per year for each pollutant. Note: the SO_2 limit under OAC rule 3745-18-06(E)(2) will remain in effect.

d. The BAT requirements under OAC rule 3745-31-05(A)(3) are not applicable to the particulate emissions emitted from this emissions unit. BAT is only applicable to emissions of an air contaminant or precursor of an air contaminant for which a national ambient air quality standard (NAAQS) has been adopted under the Clean Air Act. Particulate emissions (also referred to as total suspended particulate or particulate matter) is an air contaminant that does not involve an established NAAQS.

e. Visible fugitive PE shall not exceed 20% opacity, as a six-minute average. (This screening operation is enclosed, i.e. there should be fugitive PE only from the reject stock pile load-in.)

f. The screening equipment associated with this emissions unit was manufactured prior to 1983, and is therefore not a “new source” subject to New Source Performance Standard (NSPS) Subpart OOO.

g. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

h. The visible emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

i. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

j. This facility is not located within an "Appendix A" area 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).

k. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

l. This emissions unit is not required to install a Continuous Opacity Monitoring System (COMS) under 40 CFR 60.734(a) pursuant to the Applicability Determination issued April 3, 2006 (Control Number 0600020) US EPA Region IV to Mississippi DEQ, regarding DuPont -DeLisle Plant (as it is extended to other such dryer particulate control devices and emissions levels).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. This emissions unit shall employ a baghouse system for the dryer exhaust and also aspiration from the enclosed screening, capable of meeting a maximum outlet concentration of 0.010 gr PM_{10}/dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0109773]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1), PTI P0109773, and 40 CFR, Part 64]

(2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the reject stock pile associated with this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item d)(2)d 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). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the

emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1), PTI P0109773, and 40 CFR, Part 64]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the reject stock pile associated with this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

f) Testing Requirements

(1) 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 60 days after achieving the maximum production rate at which the emissions unit will be operated but no later than 180 days after initial startup of the emissions unit. Testing timeframe(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA.

b. The emission testing shall be conducted to demonstrate compliance with the following:

i. maximum outlet concentration for PE, for the baghouse exhaust stack.

ii. visible PE limitation, for the baghouse exhaust stack.

c. The following test method(s) shall be employed to meet the testing requirements above:

i. PE: Methods 1 - 5, of 40 CFR 60, Appendix A

ii. Visible PE: Method 9 of 40 CFR 60, Appendix A

d. The test(s) shall be conducted at a Maximum Source Operating Rate (MSOR), unless otherwise specified or approved by the Northwest District Office. MSOR is defined as the condition that is most likely to challenge the emission control measures with regards to meeting the applicable emission standard(s). Although it 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 at the MSOR 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 Northwest 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 Northwest District Office's refusal to accept the results of the emission test(s).

f. Personnel from the Northwest 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 Northwest 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 Northwest District Office.

h. Future testing requirements shall be determined /conducted in accordance with applicable rules, polices, etc. (i.e. Engineering Guide #16, OAC rule 3745-15-04, etc.). Testing time frame(s) specified may be amended or waived for cause upon prior request of, and written approval of, the Ohio EPA Northwest District Office.

[OAC 3745-77-07(C)(1) and PTI P0109773]

(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(s):</u>
0.010 gr PM_{10} /dscf; 4.86 tons PM_{10} per year (from the baghouse stack)

<u>Applicable Compliance Method:</u>
Compliance with the gr/dscf emissions limitation was demonstrated by emissions testing conducted on November 12, 2009. If required, additional testing shall be conducted in accordance with Method 201, 201A, and/or 202 of 40 CFR 51, Appendix M.

The tons per year emission limitation was developed by multiplying the emission limitation of 0.010 gr PM_{10} /dscf by the maximum volumetric flow rate (13,000 acfm), the maximum operating schedule of 8760 hours/year and applying the conversion factors of 60 minutes/hour, 2000 lbs/ton and 7000 grains/pound. Therefore, provided compliance is shown with the emission limitation of 0.010 gr PM_{10} /dscf,compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

b. Emission Limitation(s):
0.0006 lb SO_2 /mmBtu

Applicable Compliance Method:
The emission limitation was established in accordance with an AP-42 emissions factor (Table 1.4-2, Jul 1998) for natural gas combustion. If required, compliance with the SO_2 emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

c. Emission Limitation(s):
0.1 lb NO_X /mmBtu

Applicable Compliance Method:
The emission limitation was established in accordance with an AP-42 emissions factor (Table 1.4-1, Jul 1998) for natural gas combustion. If required, compliance with the NO_X emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

d. Emission Limitation(s):
0.084 lb CO /mmBtu

Applicable Compliance Method:
The emission limitation was established in accordance with an AP-42 emissions factor (Table 1.4-1, Jul 1998) for natural gas combustion. If required, compliance with the CO emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

e. Emission Limitation(s):
0.0055 lb VOC /mmBtu

Applicable Compliance Method:
The emission limitation was established in accordance with an AP-42 emissions factor (Table 1.4-2, Jul 1998) for natural gas combustion. If required, compliance with the VOC emission limitation shall be determined in accordance with U.S. EPA Reference Methods 1-4 and and 18, 25, and/or 25A of 40 CFR Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

f. Emissions Limitation(s):
0.022 ton SO_2 per year
4.64 tons NO_X per year
3.90 tons CO per year
0.18 ton VOC per year

Applicable Compliance Method:
The annual emission limitationsrepresent the Potential(s) to Emit for the emissions unit, and were established bymultiplying the lb /mmBtu limitation(s) by 8.0 mmBtu/hr and 8760 hrs/year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the lb/mmBtu emission limitations,compliance with the annual limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

g. Emission Limitation(s):
0.0063 ton fugitive PE per year

Applicable Compliance Method:
The annual limitation was established by multiplying an emission factor of 0.0144 lb/ton material processed [AP-42 Table 11.19-2 by a maximum stock pile load-in rate of 0.1 ton/hr, a maximum operating schedule of 8760 hours/year and 1 ton/2000 lbs.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

h. Emission Limitation(s):
Visible (stack) PE shall not exceed 5% opacity, as a six-minute average

Applicable Compliance Method:
Compliance with the visiblePE emissions limitation shall be demonstrated by emissions testing requirements in f)(1) above.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

i. Emission Limitation(s):
Visible fugitive PE shall not exceed 20% opacity, as a six-minute average

Applicable Compliance Method:
If required, compliance with the visible emission limitation shall be determined in accordance with Method 9 of 40 CFR, Part 60.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

j. Emission Limitation(s):
0.025 gr PE /dscf (from the baghouse /separator stack)

Applicable Compliance Method:
If required, compliance shall be demonstrated in accordance with Methods1-5 of 40 CFR, Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0109773]

g) Miscellaneous Requirements

(1) None.

21. P043, Two Sample Saws

Operations, Property and/or Equipment Description:

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	0.41 lb particulate matter less than 10 microns (PM_{10}) /hr; and 1.8 tons PM_{10} /yr. Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.41 lb PM_{10} /hr and 1.8 tons PM_{10} /yr; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the baghouse stacks.

All emissions of particulate matter from the baghouse stacks are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grains PM_{10} /dscf.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.41 lb PM_{10} /hr; 1.8 ton PM_{10} /yr

Applicable Compliance Method:
The hourly emission limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr PM_{10} /dscf, by the maximum volumetric air flow rate (2400 acfm) contributed from this emissions unit to the baghouse, and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly limit by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

22. P044, 75 Ton and 150 Ton Silo

Operations, Property and/or Equipment Description:

Silos - 75 Ton & 150 Ton (stucco) - with pneumatic conveyance (14 tons/hr)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is not located in a county specified in paragraph (B)(1) of OAC rule 3745-17-11.

The Potential to Emit (PTE) for this emissions unit is 1.50 tons particulate emissions (PE) per year, and is determined by multiplying the maximum outlet concentration of 0.020 grains PE per dry standard cubic foot by the maximum outlet airflow for the pneumatic conveyance equipment of 2200 (actual) cubic feet per minute, and using the following conversion factors in order to covert to tons/year: 1 lb/7000 grains, 60 minutes/hour, 8760 hrs/yr, 2000 lbs/ton.

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None

g) Miscellaneous Requirements

(1) None.

23. P045, 15 Ton Top Bin

Operations, Property and/or Equipment Description:

30 Ton Upper and Lower Separator Bins (stucco) - with pneumatic conveyance (14 tons/hr)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)	See b)(2)a.
b.	OAC rule 3745-17-07(A)	See b)(2)b.

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is not located in a county specified in paragraph (B)(1) of OAC rule 3745-17-11.

The Potential to Emit (PTE) for this emissions unit is 3.15 tons particulate emissions (PE) per year, and is determined by multiplying the maximum outlet concentration of 0.020 grains PE per dry standard cubic foot by the maximum outlet airflow for the pneumatic conveyance equipment of 4200 (actual) cubic feet per minute, and using the following conversion factors in order to covert to tons/year: 1 lb/7000 grains, 60 minutes/hour, 8760 hrs/yr, 2000 lbs/ton.

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

24. R004, Double Sided Spray Booth #2 - GFP

Operations, Property and/or Equipment Description:

Double Sided Spray Booth (water-based coatings /no organic solvent)

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.59 lb particulate matter less than 10 microns (PM_{10}) /hr 2.58 ton PM_{10} per rolling 12-month period See b)(2)a.
b.	OAC rule 3745-17-11(C)	See b)(2)b.

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined to be the use of a dry filtration system.

b. Pursuant to OAC rule 3745-17-11(C)(3), these emissions unitsare exempt from the requirements of OAC rule 3745-17-11.

c) Operational Restrictions

(1) The permittee shall operate the dry particulate filter whenever this emissions unit is in operation.
[OAC rule 3745-77-07(A)(1) and PTI P0105319]

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 presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit was in operation, as well as a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations, with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) The permittee shall submit quarterly deviation (excursion) reports that identify any daily record showing that the dry particulate filter was not in service (normal operation) when the emissions unit was in operation.These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.59 lb PM_{10} /hr; 2.58 tons PM_{10} per rolling 12-month period

Applicable Compliance Method:
The hourly emission limitation was established based on a stack test result of 0.59 lb PM_{10} /hr for a similar source in the USG Corporation.

If required, the permittee shall demonstrate compliance with the lb PM_{10} /hr by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual (i.e. rolling 12-month) emission limitation was developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitation, compliance with the annual emission limitation shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

g) Miscellaneous Requirements

(1) None.

25. R006, GFP Flood Coater

Operations, Property and/or Equipment Description:

GFP Flood Coater (Z622)

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

(1) b)(1)b and d)(2).

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 0.50 lb organic compounds (OC) /hr from coatings 2.19 tons per rolling 12-monthperiodfor OC from coatings
b.	ORC 3704.04(F) OAC rule 3745-114-01	See d)(2).

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined that no add-on control technologies for VOC were cost-effective. [OC is inclusive of all VOC.]

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following information each month for coating usage in this emissions unit:

a. the company identification for each coating employed;

b. the number of gallons of each coating employed;

c. the OC content of each coating employed, in pounds/gallon;

d. the OC emission rate for each coating employed, in pounds [d)(1)b x d)(1)c];

e. the total OC emission rate for all the coatings employed, in pounds [summation of d)(1)d for all coatings]; and

f. the annual year-to-date OC for all the coatings employed in tons, [summation of d)(1)e for each month to date from January to December].

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.
[PTI P0105319]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month OC emission limitation.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) 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 P0105319, issued on August 3, 2011: e)(1). 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.
[OAC rule 3745-77-07(A)(3)(a)(ii)]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):
0.50 lbs OC /hr

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (60 gallons per hour) by the maximum allowable OC content of the coating (0.0084 pounds per gallon).

The tons PM10 per rolling, 12-month period limitation was developed by multiplying the lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

If required, the hourly allowable OC emission limitations shall be determined in accordance with Methods 18, 25, or 25 A, as appropriate, of 40 CFR, Part 60, Appendix A.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. Emission Limitation(s):
2.19 tons OC per rolling 12-month period

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements as specified in d)(1).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) Formulation data or U.S. EPA Method 24 shall be used to determine the OC content of the coatings /materials.

g) Miscellaneous Requirements

(1) None.

26. R007, Inking Station #1

Operations, Property and/or Equipment Description:

GFP Black Inking Station (Z624)

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

(1) b)(1)c and d)(2).

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 3745-31-10 through OAC rule 3745-31-20 (PTI P0105319 issued August 3, 2011)	The applicant has committed to comply with the following Best Available Control Technology (BACT) Requirements: [See b)(2)a.] 6.19 lb organic compounds (OC) /hr from coatings 27.1 tons per rolling 12-monthperiodfor OC from coatings
b.	OAC rule 3745-31-05(A)(3)	8 lbs OC /month, and 0.048 ton OC /yr, from clean-up materials
c.	ORC 3704.04(F) OAC rule 3745-114-01	See d)(2).

(2) Additional Terms and Conditions

a. Based on the "Prevention of Significant Deterioration" (PSD) analysis conducted to ensure the application of "Best Available Control Technology" (BACT), it has been determined that no add-on control technologies for VOC were cost-effective. [OC is inclusive of all VOC.]

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following information each month for coating operations for this emissions unit:

a. the company identification for each coating employed;

b. the number of gallons of each coating employed;

c. the OC content of each coating employed, in pounds/gallon;

d. the OC emission rate for each coating employed, in pounds [d)(1)b x d)(1)c, for coatings and for cleanup materials];

e. the total OC emission rate for all the coatings employed, in pounds [summation of d)(1)d, for all coatings and for all cleanup materials]; and

f. the annual year to date OC for all the coatings employed, in tons [summation of d)(1)e for each month to date from January to December].

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) The permittee shall collect and record the following information each month for clean-up operations for this emissions unit:

a. the company identification for each cleanup material employed;

b. the number of gallons of each cleanup material employed;

c. the OC content of each cleanup material employed, in pounds/gallon;

d. the OC emission rate for each cleanup material employed, in pounds [d)(1)b x d)(2)c, for coatings and for cleanup materials];

e. the total OC emission rate for all the cleanup material employed, in pounds [summation of d)(2)d, for all coatings and for all cleanup materials]; and

f. the annual year-to-date OC emission rate for all cleanup materials employed in tons [summation of d)(2)e for each month to-date, from January to December].

[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(3) Modeling to demonstrate compliance with, the "Toxic Air Contaminant Statute", ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified PTI prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new PTI.

[ORC 3704.03(F)(3)(c) and F(4)]

(4) 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 P0105319, issued on August 3, 2011: d)(1)f. 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.
[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

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

a. any exceedances of the 6.19 lbs of OC/hr for coatings;

b. any exceedances of the 27.1 tons of OC per rolling, 12-month period, for coatings;

c. any exceedances of the 8 lbs/month for cleanup materials; and

d. any exceedance of the 0.048 tons OC/year for cleanup materials.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s):</u>
6.19 lbs OC /hr for coatings

<u>Applicable Compliance Method:</u>
The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (60 gallons per hour) by the maximum allowable OC content of the coating (0.0084 pounds per gallon).
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

b. <u>Emission Limitation(s):</u>
27.1 tons OC per rolling 12-month period for coatings

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements as specified in d)(1)f.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

c. Emission Limitation(s):
8 lbs OC/month, 0.048 ton OC/yr; from cleanup materials

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements specified in d)(1)e and d)(1)g.
[OAC rule 3745-77-07(C)(1) and PTI P0105319]

(2) Formulation data or U.S. EPA Method 24 shall be used to determine the OC content of the coatings /materials.

(3) 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 P0105319, issued on August 3, 2011, issued on: f)(1)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.
[OAC rule 3745-77-07(A)(3)(a)(ii)]

g) Miscellaneous Requirements

(1) None.

27. Emissions Unit Group -Group A: Kettles

EU ID	Operations, Property and/or Equipment Description
P020	#3 Stucco Kettle - n.g.(with baghouse) - 14 mmBtu/hr n.g.
P021	#4 Stucco Kettle - n.g. (with baghouse) - 14 mmBtu/hr n.g.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	<u>Baghouse emissions:</u> 0.34 lb particulate matter less than 10 microns (PM_{10}) /hr, and 1.50 tons PM_{10} /yr (from emissions unit P020) 0.51 lb particulate matter less than 10 microns (PM_{10}) /hr, and 2.25 tons PM_{10} /yr (from emissions unit P021) Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average. (from each emissions unit) See b)(2)a and b)(2)f.
b.	OAC rule 3745-31-05(A)(3)	<u>Natural gas fuel burning emissions:</u> 1.37 lbs nitrogen oxides (NOx) /hr; and 6.00 tons NOx /yr* 1.15 lbs carbon monoxide (CO) /hr; and 5.04 tons CO /yr* 0.10 lb PM_{10} /hr; and 0.44 ton PM_{10} /yr* 0.08 lb volatile organic compounds (VOC) /hr; and 0.35 ton VOC /yr* 0.01 lb sulfur dioxide (SO_2) /hr, and 0.04

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		ton SO_2 /yr* * from each emissions unit
c.	OAC rule 3745-17-07(A)	See b)(2)b.
d.	OAC rule 3745-17-10(B)(1)	0.020 lb PE /mmBtu of actual heat input See b)(2)c.
e.	OAC rule 3745-17-11(B)(2)	See b)(2)d.
f.	OAC rule 3745-18-06(E)	See b)(2)e.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.34 lb PM_{10} /hr and 1.5 tons/yr from P020; and 0.51 lb PM_{10} /hr and 2.25 tons/yr from P021; and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from each of the baghouse stacks.

All emissions of particulate matter from the baghouse stack(s) are PM_{10}.

b. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

c. Note: The potential to emit for particulate emissions from this emissions unit is less than the allowable emission limitation established pursuant to this rule.

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

e. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

f. All emissions of particulate matter are PM_{10}.

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. All particulates from this emissions unit shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grains PM_{10} /dscf.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

(2) The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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(s) serving each emissions unit. The presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in these emission units.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack(s) serving each emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in these emission units. Each report shall be submitted within 30 days after the deviation occurs.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s): (baghouse emissions)
0.34 lb PM_{10} /hr, 1.50 tons PM_{10} /yr (for emissions unit P020)
0.51 lb PM_{10} /hr, 2.25 tons PM_{10} /yr (for emissions unit P021)

Applicable Compliance Method:
The hourly emission limitations were established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf by the total maximum volumetric air flow rate [standard cubic foot per minute (scfm)] contributed by each emissions unit (2000 scfm for P020; and 3000 scfm for P021), and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the gr PM_{10} /dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s): (from each emissions unit; natural gas combustion)
1.37 lb NO_X /hr

Applicable Compliance Method:
The hourly allowable NO_X emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (13.7 mm cu. ft/hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 100 lbs NO_X /mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 7.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s): (from each emissions unit; natural gas combustion)
1.15 lb CO/hr

Applicable Compliance Method:
The hourly allowable CO emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (13.7 mm cu.

ft/hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 84 lbs NOx/mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 10.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

d. Emission Limitation(s): (from each emissions unit; natural gas combustion)
0.10 lb PM_{10} /hr

Applicable Compliance Method:
The hourly allowable PM_{10} emission limitation was established by multiplying the maximum hourly natural gas burning capacity of the emissions unit (13.7 mm cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 7.6 lbs PE /mm cu. ft.

If required, the permittee shall demonstrate compliance with the lb PM_{10} /hr by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e. Emission Limitation(s): (from each emissions unit; natural gas combustion)
0.08 lb VOC/hr

Applicable Compliance Method:
The hourly allowable VOC emission limitation was established by multiplying the maximum hourly natural gas combustion rate (13.7 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb VOC /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 18, 25,or 25A.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

f. Emission Limitation(s): (from each emissions unit; natural gas combustion)
0.01 lb SO_2 /hr

Applicable Compliance Method:
The hourly allowable SO_2 emission limitation was established by multiplying the maximum hourly natural gas combustion rate (13.7 mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 0.6 lb SO2 /mm cu. ft. of natural gas.

If required, the permittee shall demonstrate compliance with the lb/hr emission limitation through emission tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4, and 6.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g. Emission Limitation(s): (from each emissions unit; natural gas combustion)
6.00 tons NO_X /yr
5.04 tons CO /yr
0.44 tons PM_{10} /yr
0.35 ton VOC /yr
0.04 tons SO_2 /yr

Applicable Compliance Method:
The annual emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

h. Emission Limitation(s): (natural gas combustion)
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:
Compliance with the lb/mmBtu allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (mm cu. ft/hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 7.6 lbs PE/mm cu. ft, and then dividing by the maximum heat input capacity of the emissions unit (mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBTU PE limitation in accordance with the methods specified in OAC rule 3745-17-03(B)(9).
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

i. Emission Limitation(s):
Visible PE shall not exceed 5% opacity, as a 6-minute.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.

28. Emissions Unit Group -Group B: Mixers

EU ID	Operations, Property and/or Equipment Description
P037	Ready Mix Line No. 1 (with baghouse)
P038	Ready Mix Line No. 2 (with baghouse)
P040	No. 4 Mixer (with 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 operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI P0105334 issued October 28, 2011)	<u>Baghouse emissions</u>: Particulate matter less than 10 microns (PM_{10}) shall not exceed: P037: 0.82 lb/hr, and 3.6 tons/yr P038: 0.17 lb/hr, and 0.75 ton/yr P040: 0.75 lb/hr, and 3.3 tons/yr Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average, from any baghouse stack(s). <u>Non-baghouse emissions</u>: Fugitive PE shall not exceed (in tons per rolling 12-month period): P037: 0.64 ton P038: 0.66 ton P040: 0.02 ton Visible fugitive PE shall not exceed 20% opacity, as a three-minute average, from any building egress points. See b)(2)a and b)(2)b.
b.	OAC rule 3745-17-07(A)	See b)(2)c.
c.	OAC rule 3745-17-07(B)	See b)(2)d.
d.	OAC rule 3745-17-08(B)	See b)(2)e.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-17-11(B)(2)	See b)(2)f.

(2) Additional Terms and Conditions

a. This permit establishes the following federally enforceable PM_{10} emission limitations for the purpose of limiting potential to emit (PTE). The federally enforceable emission limitations are based on the operational restriction contained in c)(1) which require control equipment:

i. 0.82 lb PM_{10} /hr and 3.6 ton/yr for P037; 0.17 lb PM_{10} /hr and 0.75 ton/yr for P038, 0.75 lb PM_{10} /hr and 3.3 ton/yr for P040: and

ii. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average, for stack emissions from P037, P038, and P040.

All emissions of particulate matter from these baghouse stacks are PM_{10}.

b. This permit also establishes federally enforceable PE limitations for the purpose of limiting potential to emit (PTE). This permit establishes federally enforceable emission limitations of 0.64 ton for P037, 0.66 ton for P038, and 0.02 ton for P040, of PE per rolling 12-month period, for the material handling portions of these emission units.

c. The visible emission limitation specified by this rule is less stringent than the visible emission limitation established pursuant to OAC rule 3745-31-05(D).

d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

e. This facility is not located within an "Appendix A" area 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).

f. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing federally enforceable requirements which limit PTE [see b)(2)a.]:

a. Particulates from these emission units shall be vented to a baghouse system capable of achieving a maximum outlet concentration of 0.020 grains PM_{10} /dscf.

[OAC rule 3745-77-07(A)(1) and PTI P0105334]

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(s) serving each emissions unit. The presence or absence of any visible emissions shall be noted in an operations log, as well as the date and time the daily check was performed. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1), PTI P0105334, and 40 CFR, Part 64]

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

a. the location and color of the emissions;

b. whether the emissions are representative of normal operations;

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

d. the total duration of any visible emission incident; and

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

[OAC rule 3745-77-07(C)(1) and PTI P0105334]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify (a) all days during which any visible particulate emissions were observed from the stack(s) serving each emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the appropriate Ohio EPA district office or local field office by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from building egress points associated with each emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

(3) All reports shall be submitted electronically through Ohio EPA Air Services, unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).
[OAC rule 3745-15-03(A)]

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(s): (from the baghouse stacks)
P037: 0.82 lb PM_{10} /hr, 3.6 tons/yr
P038: 0.17 lb PM_{10} /hr, 0.75 tons/yr
P040: 0.75 lb PM_{10} /hr, 3.3 tons/yr

Applicable Compliance Method:
The hourly emission limitations were established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf by the maximum volumetric air flow rate contributed to the baghouses as follows:

P037- 4800 acfm; P038- 1000 acfm; P040- 4400 acfm

and using the following conversion factors in order to covert to lbs/hr: 1 lb/7000 grains, 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the gr PM_{10} /dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR, Part 51, Appendix M. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

The annual emission limitations were developed by multiplying the hourly emission limitation by 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly emission limitations, compliance with the annual emission limitations shall also be demonstrated.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

b. Emission Limitation(s): from the building(s)
P037: 0.64 ton PE per rolling 12-month period
P038: 0.66 ton PE per rolling 12-month period
P040: 0.02 ton PE per rolling 12-month period

Applicable Compliance Method:
Compliance may be determined by multiplying the AP-42 Table 11.17-4emission factor of 2.2 lb/tonmaterial processed by the maximum production rates as follows:

P037- 22 tons/hr; P038- 18 tons/hr; P040- 0.71 tons/hr

and further multiplying by 0.01 (for 99 percent baghouse capture efficiency), and by 0.30 (approximately 70 percent building containment /settling), and by 8760 hours/year and 1 ton/2000 lbs.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

c. Emission Limitation(s): (from the baghouse stacks)
Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stacks.

Applicable Compliance Method:
If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

d. Emission Limitation(s):
Visible PE from the building(s) shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined according to Test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources." and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
[OAC rule 3745-77-07(C)(1) and PTI P0105334]

g) Miscellaneous Requirements

(1) None.