



State of Ohio Environmental Protection Agency

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10/21/2008

Delete Row
US Gypsum Company - Gypsum/Mineral Wool
US Gypsum Company
121 South Lake Street
Gypsum, OH 43433

Certified Mail
Facility ID: 0362000078
Permit Number: P0087396
County: Ottawa

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

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, News Herald. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page <http://www.epa.state.oh.us/dapc> in Microsoft Word and Adobe Acrobat format. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
122 South Front Street
Columbus, Ohio 43215

and Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461.

Sincerely,

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

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-NWDO; Michigan

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

PUBLIC NOTICE
ISSUANCE OF DRAFT AIR POLLUTION Title V Permit
US Gypsum Company - Gypsum/Mineral Wool

Issue Date: 10/21/2008
Permit Number: P0087396
Permit Type: Renewal
Permit Description: Renewal Title V Application
Facility ID: 0362000078
Facility Location: US Gypsum Company - Gypsum/Mineral Wool
Lake Street,
Gypsum, OH 43433
Facility Description: Gypsum Product Manufacturing

Chris Korleski, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control Title V operating permit for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Donald Waltermeyer at Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road or (419)352-8461. The permit, which includes a detailed description of the operations, and associated statement of basis for the permit requirements, can be downloaded from the Web page: www.epa.state.oh.us/dapc

Statement of Basis For Title V Permit

Part I - General	
Company Name	US Gypsum
Premise Number	03 62 00 0078
What makes this facility a Title V facility?	PM ₁₀ , NO _x , CO
Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	Yes
Were there any common control issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	Since the original Title V permit issuance for this facility, two additional facilities which were formerly considered separate facilities are now united with the original Title V facility, in this Title V renewal permit.
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	N/A

Part II (State and Federally Enforceable Requirements)			
Term and Condition (paragraph)	Basis		<u>Comments</u>
	SIP (3745-)	Other	

X **Instructions for Part II:**

Each paragraph in Part II must be identified and the remainder of the table completed. If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. Whether the basis for the term and condition is the "SIP" or "Other," an explanation of each term and condition in Part II must be provided in the "Comments" section.

Part III (Requirements Within the State and Federally Enforceable Section)															
Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in the appropriate comment field or in a paragraph following the table for Part III.															
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>
		SIP (3745-)	Other												
B008	0.06 lb NOx /mmBtu *	31-05		N	N	Y	N	N	Y	N	Y	N	Y	N	* when firing >37.5 mmBtu/hr M - PEMS monitoring requirements.
B008	0.15 lb NOx /mmBtu *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	* when firing <37.5 mmBtu/hr M - PEMS monitoring requirements. ET – NOx emissions testing will be at the higher firing rate.
B008	7.50 lb NOx /hr; 32.8 ton NOx/yr	31-05		N	N	Y	N	N	Y	N	Y	N	Y	N	M - PEMS monitoring requirements.

B008	0.21 lb OC /hr; 0.93 ton OC/yr	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.
B008	29.2 lb CO /hr; 128 ton CO/yr	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.
B006 B008	0.020 lb PE /mmBtu	17-10 (B)(1)		N	Y	Y	N	N	Y	N	Y	N	N	N	N	OR - Must burn only natural gas (an inherently clean fuel for PE). M - Tracking for any day where a fuel other than natural gas was used. ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>	
		SIP (3745-)	Other													
B006 B008	20 % opacity	17-07 (A)		N	N	Y	N	N	Y	N	Y	N	N	N	N	OR - Must burn only natural gas (an inherently clean fuel for PE and opacity) M - Tracking for any day where a fuel other than natural gas was used. ET - None normally required for opacity alone.
B008	0.63 lb PE /hr; 2.76 ton PE/yr	31-05		N	N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.
F002	5.52 ton PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	N	* fugitive particulate emissions M - Fugitive dust visual inspections daily. Also – employ reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for fugitive particulate emissions from crushers. (Compliance is based on AP-42 emission factors.)
F002	visible emissions restriction	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	N	* Visible fugitive PE shall not exceed 15% opacity as a six-minute average M - Fugitive dust visual inspections daily. Also –

	*															employ reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for opacity.
F004	11.8 ton PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* fugitive particulate emissions M - Fugitive dust visual inspections daily. Also – employ best available control measures (BACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for fugitive particulate emissions from material handling. (Compliance is based on Ohio EPA RACM emission factors.)
F004	Visible Emissions restriction *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* Visible fugitive PE shall not exceed 10% opacity as a six-minute average M - Fugitive dust visual inspections daily. Also – employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for opacity.
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>	
		SIP (3745-)	Other													
F005	0.20 tons PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* fugitive particulate emissions M - Fugitive dust visual inspections daily. Also – employ best available control measures (BACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for fugitive particulate emissions from roadways. (Compliance is based on AP-42 emission factors.)
F005	visible emissions restriction *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* no visible particulate emissions except for one minute during any 60-minute period (for paved roadways) M - Fugitive dust visual inspections twice daily. Also – employ BACM that are sufficient to minimize or eliminate visible emissions of fugitive dust ET - None normally required for opacity.
P001	0.03 gr	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks.

	PE /DSCF 18.0 ton PE /yr *															ET - None - per Ohio EPA Engineering Guide 16 * from baghouse
P001	20.5 ton PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily fugitive visible emissions checks. ET - None normally required for fugitive particulate emissions. (Compliance is based on AP-42 emission factors.) * fugitive particulate emissions (from dryer seals, screen, and reject storage bunker)
P001	visible emissions restriction *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* Visible PE shall not exceed 0% opacity as a six-minute average (from baghouse) M – Daily visible emissions checks. ET - None normally required for opacity
P001 P037 P038 P039 P040 P041	visible emissions restriction *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		* Visible fugitive PE shall not exceed 20% opacity as a three-minute average M – Daily fugitive visible emissions checks. ET - None normally required for opacity
P001	2.16 lb NOx /hr; 9.50 ton NOx/yr *	31-05		N	N	N	N	N	N	N	N	N	N	N		M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas combustion
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>	
		SIP (3745-)	Other													
P001	1.81 lb CO /hr; 7.93 ton CO/yr *	31-05		N	N	N	N	N	N	N	N	N	N	N		M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas combustion
P010	2.16 lb PE/hr; 9.46 ton PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16 * also, 0.03 gr PE /DSCF
P010 P020 P021	20% opacity	17-07 (A)		N	N	Y	N	N	Y	N	Y	N	N	N		M - Weekly visible emissions checks. ET - None normally required for opacity alone.

P026 P027 P029																
P020	67.0 lb PE/hr	17-11 (B)(2)		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16
P021	67.0 lb PE/hr															
P023	8.8 lb PE/hr															
P026	10.2 lb PE/hr; 44.7 ton PE/yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16 * also, 0.02 gr PE /DSCF
P027	12.3 lb NOx /hr; 54.0 ton NOx/yr *	31-05		N	N	N	N	N	N	N	N	N	Y	N		M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas combustion - also 0.11 lb nitrogen oxides (NOx) /mmBtu of actual heat input
P027	20.2 lb CO /hr; 88.3 ton CO/yr *	31-05		N	N	N	N	N	N	N	N	N	Y	N		M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas combustion
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>	
		SIP (3745-)	Other													
P027	0.65 lb OC /hr; 2.85 ton OC/yr *	31-05		N	N	N	N	N	N	N	N	N	N	N		M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. * natural gas combustion
P029	0.09 lb PE/hr; 0.4 ton PE/yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16 * also, 0.02 gr PE /DSCF
P036	0.02 gr	31-05		N	N	Y	N	N	Y	N	Y	N	N	N		M – Daily visible emissions checks.

	PM ₁₀ /DSCF 4.50 ton PM ₁₀ /yr														ET - None - per Ohio EPA Engineering Guide 16
P037	0.02 gr PM ₁₀ /DSCF	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16 * rolling 12-month period, from baghouse
P037 P038 P039 P040 P041	3.60 ton PM ₁₀ /yr * 1.20 ton PM ₁₀ /yr * 0.44 ton PM ₁₀ /yr * 3.30 ton PM ₁₀ /yr * 1.88 ton PM ₁₀ /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	M – Daily visible emissions checks. ET - None - per Ohio EPA Engineering Guide 16 * rolling 12-month period, from baghouse
P037 P038 P039 P040 P041	3.18 ton PE /yr * 2.60 ton PE /yr * 0.24 ton PE /yr * 0.77 ton PE /yr * 5.03 ton PE /yr *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	M – Daily fugitive visible emissions checks. ET - None normally required for fugitive particulate emissions. (Compliance is based on AP-42 emission factors.) * rolling 12-month average, fugitive particulate emissions
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>
		SIP (3745-)	Other												
P036 P037 P038 P039 P040 P041	visible emissions restriction *	31-05		N	N	Y	N	N	Y	N	Y	N	N	N	* Visible PE shall not exceed 5% opacity as a six-minute average M – Daily visible emissions checks. ET - None normally required for opacity

P041	2.45 lb VOC hr; 10.7 ton VOC /yr	31-05		N	N	N	N	N	N	N	N	N	N	N	M, R, Rp, ET - None - The hourly OC emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping, reporting, or testing requirements to ensure compliance with this limitation.
R004	0.7 lb PE/hr; 2.9 ton PE/yr	31-05		N	Y	N	N	N	N	N	N	N	N	N	OR – Work practice standards according to OAC 3745-17-11(C). ET - None - per Ohio EPA Engineering Guide 16
R004	0% opacity	31-05		N	Y	N	N	N	N	N	N	N	N	N	OR – Work practice standards according to OAC 3745-17-11(C). ET - None - per Ohio EPA Engineering Guide 16
R004	5.2 lb OC hr; 22.5 ton OC /yr *	31-05		N	N	N	N	N	N	N	N	N	N	N	NOTE: process change – now non-OC coating used
R004 Z624 Z625	see OR in comments	21-07 (G)		N	Y	Y	N	N	Y	N	Y	N	N	N	OR - cannot use photochemically-reactive materials. M - Material composition tracking. Monthly was chosen as a reasonable and practical monitoring frequency. ET - No stack testing is required. Compliance can be demonstrated based on the record keeping requirements.
R004	see OR in comments	31-05		N	Y	Y	N	N	Y	N	Y	N	N	N	OR - cannot use clean-up materials containing organic compounds. M - Material composition tracking. Monthly was chosen as a reasonable and practical monitoring frequency. ET - No stack testing is required. Compliance can be demonstrated based on the record keeping requirements.
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>
		SIP (3745-)	Other												
P001 P003 P019	N/A	17-11 (B)(2)		Y	N	N	N	N	N	N	N	N	N	N	ND - The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10

P020 P021 P022 P036 P037 P038 P039 P040 P041																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. In addition, Table I of OAC rule 3745-17-11 does not apply because the facility is located in Crawford County, which is identified as a P-2 county.
P001 P003 P019 P020 P021 P022 P036 P037 P038 P039 P040 P041	N/A	17-07 (A)(1)		Y	N	N	N	N	N	N	N	N	N	N	N	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.
F002 F004 F005 P001 P037 P038 P039 P040 P041	N/A	17-07 (B)		Y	N	N	N	N	N	N	N	N	N	N	N	ND - 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).
F002 F004 F005 P001 P037 P038 P039 P040 P041	N/A	17-08 (B)		Y	N	N	N	N	N	N	N	N	N	N	N	ND - 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).
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	<u>Comments</u>	
		SIP (3745-)	Other													

P041	N/A	21-07 (G)		Y	N	N	N	N	N	N	N	N	N	N	N	ND - This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in Ashland Chem. Co. v. Jones (2001), 92 Ohio St.3.d 234
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EU = emissions unit ID

ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)

OR = operational restriction

M = monitoring requirements

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement

ENF = did noncompliance issues drive the monitoring requirements?

R = record keeping requirements

Rp = reporting requirements

ET = emission testing requirements (not including compliance method terms)

Misc = miscellaneous requirements

X Instructions for Part III:

- X All non-insignificant EUs must be included in this table. For each EU, or group of similar EUs, each emission limitation and control requirement specified in section A.I.1 and A.I.2 of the permit must be identified and the remainder of the table completed.
- X If the SIP (not including OAC rule 3745-31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an "N" in the column under "SIP." If the basis for the term and condition is something other than the SIP, including OAC rule 3745-31-05, NSPS or MACT, a "Y" should be noted in the "Other" column, and if not, an "N" should be noted. If the basis for the term and condition is "Other," an explanation of the basis must be provided in the "Comments" section. If OAC rule 3745-31-05 is cited in the "Other" column, please indicate in the "Comments" section whether or not all of the requirements have been transferred from the permit to install.
- § To complete the remainder of the table after "Basis," except for the "Comments" section, simply specify a "Y" for yes or an "N" for no. For the "M," "R," "Rp," and "ET" columns, if "N" is specified, there should be a brief explanation in the "Comments" section as to why there are no requirements. If a brief explanation is provided in the "Comments" section, please do not simply indicate that monitoring or testing requirements are not necessary. An explanation of why a requirement is not necessary should be specified.

When periodic monitoring requirements are established to satisfy the provisions of OAC rule 3745-77-07(A)(3)(a)(ii), the basis for the requirements must be explained. Whenever Engineering Guides have been used to establish the periodic monitoring requirements, the applicable Engineering Guide may be referenced in the "Comments" section. An example that should be clarified would be the situation where it has been determined that control equipment parametric monitoring will be used to evaluate ongoing compliance in lieu of performing frequent emission tests. In this situation, Engineering Guide #65 would be referenced along with the fact that the parametric monitoring range (or minimum value) corresponded to the range (or minimum value) documented during the most recent emission tests that demonstrated that the emissions unit was in compliance. If streamlining language is included in the "Monitoring," "Record Keeping," or "Reporting" requirements sections of the permit, explain which requirements are being streamlined (mark appropriate column above) and provide a brief explanation of why the streamlined term is equal to or more stringent than the "Monitoring," "Record Keeping," or "Reporting" requirements specified in the permit to install. If Engineering Guide #16 was used as the basis for establishing an emission test frequency, a simple note referencing the Engineering Guide in the "Comments" section would be sufficient.

Also, if a **AY** is noted under **AOR**, **AMisc**, **ASt**, **AND**, or **AENF** an explanation of the requirements must be provided in the **AComments** section. In addition to a general explanation of the **AOR**, **AMisc**, **ASt**, **AND**, and/or **AENF** the following must be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, and reporting requirements have been specified for the operational restriction and indicate whether or not CAM is currently applicable.
 2. If a control plan and schedule is included in the **AMiscellaneous Requirements** section of the permit, provide an explanation in the **AComments** section of the violation, basis for the violation, and the company's proposed control plan and schedule.
 3. If the **AND** column above is marked, please identify the particular rule(s) that is (are) not applicable to the specified emissions unit.
- A. If the **AENF** column above is marked, please provide a brief explanation of the noncompliance issue(s) which prompted the use of the specified monitoring requirement.

An explanation is not required if an **AN** is noted in the **AOR**, **AMisc**, **ASt**, **AND**, or **AENF** columns.

- X **Additional information for modifications** - Several types of modifications, as defined by rule, may be processed concurrently. Please provide enough of a description for someone wishing to review the changes to the permit language to be able to identify where the change is made in the permit document. This brief description should be identified in the appropriate row in the first table of this form by replacing the **AN/A** in the applicable row(s). Please also indicate if the modification is being initiated by an appeal by including the ERAC case number in the **AComments** area. Please update the term-specific text in the SOB as warranted (full insertion or replacement is acceptable; bold italic and strike out is not needed). Note all modification/reopening rows should remain **AN/A** when developing the SOB during the initial permit development. Note: APA's and Off-permit changes do not need to be noted in the SOB.



**State of Ohio Environmental Protection Agency
Division of Air Pollution Control**

DRAFT

**Air Pollution Title V Permit
for
US Gypsum Company - Gypsum/Mineral Wool**

Facility ID: 0362000078

Permit Number: P0087396

Permit Type: Renewal

Issued: 10/21/2008

Effective: To be entered upon final issuance

Expiration: To be entered upon final issuance



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Air Pollution Title V Permit
for
US Gypsum Company - Gypsum/Mineral Wool

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State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Draft Title V Permit

Permit Number: P0087396

Facility ID: 0362000078

Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0362000078
Facility Description: Gypsum products
Application Number(s): A0018364, A0018365
Permit Number: P0087396
Permit Description: Renewal Title V Application
Permit Type: Renewal
Issue Date: 10/21/2008
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number:

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

US Gypsum Company - Gypsum/Mineral Wool
Lake Street
Gypsum, OH 43433

Ohio 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

Chris Korleski
Director



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Draft Title V Permit

Permit Number: P0087396

Facility ID: 0362000078

Effective Date: To be entered upon final issuance

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) constitutes a violation of an emission limitation (or control requirement) and, therefore, 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.



State of Ohio Environmental Protection Agency
Division of Air Pollution Control

Draft Title V Permit

Permit Number: P0087396

Facility ID: 0362000078

Effective Date: To be entered upon final issuance

US GYPSUM

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) 3.

2. The following insignificant emissions units are located at this facility:
 - a) F003 - Bulk Perlite Rail Car Unloading and Storage (PTI 03-8222)
 - b) P024 - Bulk Hydrocal Storage Silo (PTI 03-10712)
 - c) P025 - Gypsum Fiber & Additive Slurry System - GFP (PTI 03-10712)
 - d) P028 - GFP Emergency Generator
 - e) P030 - Fine Landplaster Convey, Storage Oper - GFP (PTI 03-10712)
 - f) P031 - 3 mmBtu/hr Input Nat Gas Fired Dryer - GFP (PTI 03-11030)
 - g) P032 - 6 mmBtu/hr N.G. Dryer -GFP -Spray Booth 2 (PTI 03-11030)
 - h) Z011 - Diesel Fire Pump
 - i) Z012 - Spare Baywater Pump
 - j) Z018 - Diesel Fuel Tank for Fire Pump
 - k) Z023 - Propane Storage and Filling
 - l) Z313 - GFP Emergency Generator Diesel Tank
 - m) Z324 - Four 1000 Gallon Latex Tanks
 - n) Z325 - One 1000 Gallon Latex Tank (idle)
 - o) Z326 - Biocide Tank
 - p) Z327 - Fungicide Tank
 - q) Z328 - Two Ethylene Glycol Tanks
 - r) Z329 - General Plant Gasoline Tank (replaces Z019)
 - s) Z334 - Nalstrip 12 Tank
 - t) Z337 - Kerosene Storage Tank- 1000 Gallons
 - u) Z339 - General Plant Highway Diesel Tank (replaces Z021)
 - v) Z523 - Safety Kleen Tanks

Each insignificant emissions unit 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. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

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

3. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:
 - a) Z200 - Off-Road Diesel Storage Tanks
 - b) Z202 - 75 Ton & 150 Ton Stucco Silos w/airvey
 - c) Z119 - Sample Spray Booth
 - d) Z202 - 75 Ton and 150 Ton Stucco Silos w/airvey
 - e) Z232 - 15 Ton Top Stucco Bin w/airvey
 - f) Z316 - GFP VHI Waste Pile
 - g) Z317 - Aux. Landplaster Unloading and Storage Bin
 - h) Z319 - Box Adhesive Application
 - i) Z320 - Snow White, Dolocron Railcar Unloading and Silo Storage
 - j) Z336 - Diesel Bay Water Backup Tank - 60 Gallons



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- k) Z338 - Waste Water Treatment
- l) Z602 - GFP Fiber Slurry System
- m) Z603 - GFP Product Holding Tank
- n) Z605 - GFP Broke System Reclaim Pile
- o) Z606 - GFP Waste Pulper
- p) Z607 - GFP Waste Pulper Pit



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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.

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-10 (B)(1)	0.020 lb particulate emissions (PE) /mmBtu of actual heat input
b.	OAC rule 3745-17-07 (A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-31-05(A)(3) (PTI 03-1203 issued December 9, 1982)	See b)(2)a.
d.	40 CFR 63.52(a)(2)	See b)(2)b.

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-10(B)(1) and 3745-17-07(A).

b. This emissions unit is subject to a case-by-case MACT determination pursuant to section 112(j) of the Clean Air Act (CAA) due to the June 8, 2007 D.C. Circuit Court of Appeals decision to vacate the Boiler MACT (40 CFR Part 63, Subpart DDDDD).

If notified by the Ohio EPA or U.S. EPA, the permittee shall submit an application for a revision to this Title V permit that meets the requirements of 40 CFR 63.52(a)(2) pertaining to case-by-case MACT determinations. The 30-day clock for submittal of a 112(j) application does not begin until such notification is made by Ohio EPA or U.S. EPA.

[40 CFR 63.52(a)(2)]



- c) Operational Restrictions
 - (1) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

- d) Monitoring and/or Recordkeeping Requirements
 - (1) For each day during which the permittee burns a fuel other than either natural gas or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- e) Reporting Requirements
 - (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- f) Testing Requirements
 - (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

Applicable Compliance Method:
Compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



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

Operations, Property and/or Equipment Description:

Boiler - 125 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 operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-11030 as modified on December 4, 2003)	0.06 lb nitrogen oxides (NO _x) /mmBtu heat input (for heat input rates >37.5 mmBtu/hr) 0.15 lb NO _x /mmBtu heat input (for heat input rates <37.5 mmBtu/hr) 7.50 lb NO _x /hr, 32.8 ton NO _x /yr 29.2 lb carbon monoxide (CO) /hr, 128 tons CO /yr 0.21 lb organic compounds (OC) /hr, 0.93 ton OC /yr 0.63 lb particulate emissions (PE) /hr, 2.76 ton PE /yr See b)(2)a.
b.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/mmBtu of actual heat input
c.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
d.	40 CFR 60.44b (a) [NSPS Subpart Db]	See b)(2)b.
e.	OAC rule 3745-18-06(G)	See b)(2)c.
f.	OAC rule 3745-21-08(B)	See b)(2)d.
g.	40 CFR 63.52(a)(2)	See b)(2)g.



(2) Additional Terms and Conditions

- a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

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.

- b. 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 3745-31-05(A).
- c. This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
- d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- e. The 0.93 lb PE /hr, 29.2 lb CO /hr, and 1.34 lb OC /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.
- 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.
[40 CFR 60.44b(h)]
- g. This emissions unit is subject to a case-by-case MACT determination pursuant to section 112(j) of the Clean Air Act (CAA) due to the June 8, 2007 D.C. Circuit Court of Appeals decision to vacate the Boiler MACT (40 CFR Part 63, Subpart DDDDD).

If notified by the Ohio EPA or U.S. EPA, the permittee shall submit an application for a revision to this Title V permit that meets the requirements of 40 CFR 63.52(a)(2) pertaining to case-by-case MACT determinations. The 30-day clock for submittal of a 112(j) application does not begin until such notification is made by Ohio EPA or U.S. EPA.
[40 CFR 63.52(a)(2)]



c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.
[OAC 3745-31-05(A)(3) and 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform the following monitoring and record keeping requirements for the continuous NO_x monitor:

- a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x from this emissions unit in units established in this permit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- b. The permittee shall maintain records of all data obtained by the continuous NO_x monitoring system including, but not limited to, parts per million NO_x on an instantaneous (one-minute) basis, emissions of NO_x in units established in this permit in the appropriate averaging period (i.e., lbs/hr for each hour and lbs/mmBtu for each hour), results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.
- c. 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. 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.
- d. A statement of certification of the existing continuous NO_x monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 2 and/or 40 CFR Part 75. Proof of certification shall be made available to the Director (the Ohio EPA, Northwest District Office) upon request.

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

- (2) 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 must meet 'Example Specifications and Test Procedures for Predictive Emission Monitoring Systems' as written by the United States Environmental Protection Agency, and the proposed system shall be approved in writing by Ohio EPA prior to installation. At such time that a performance specification for PEMS is promulgated, the PEMS shall be required to meet the promulgated requirements.

After initial testing to assure the PEMS meets the 'Example Specifications and Test Procedures for Predictive Emission Monitoring Systems', or when available, the promulgated performance specification, 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). RATA testing protocol shall be submitted to the Director (the Ohio EPA, Central Office) for approval prior to installation of the PEMS.

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

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

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

- (2) The permittee shall submit reports within 30 days following the end of each calendar quarter to the Ohio EPA, Northwest District Office documenting any continuous NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

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

- (3) If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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

- (4) 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]



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 approximately 2.5 years after permit issuance.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for CO, and the allowable mass hourly and lb/mmBtu (>37.5 mmBtu/hr) emission rate for NO_x.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass hourly and lb/mmBtu emission rates:

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

NO_x: 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7

d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).

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

(2) Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, 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 Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, 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.

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 Director (the Ohio EPA, 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 Director (the Ohio EPA, Northwest District Office).

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

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

- a. Emission Limitation:
 - 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, 32.8 ton NO_x /yr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the lb NO_x/mmBtu limitation(s) above through the record keeping requirements specified in d)(1).

Provided compliance is shown with the 0.06 lb NO_x/mmBtu limitation at the higher heat input rate, compliance shall also be shown with the hourly limitation [the hourly allowable NO_x emission limitation above was established by multiplying the 0.06 lb NO_x/mmBtu allowable limitation by the emissions unit's maximum heat input (125 mmBtu/hr)].

Provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation (the annual emission limitation was determined by multiplying the hourly limitation by 8760, and then dividing by 2000).

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

b. **Emission Limitation(s):**

0.020 lb PE/mmBtu of actual heat input

0.63 lb particulate emissions (PE) /hr

Applicable Compliance Method:

Compliance with the hourly 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 1.9 lbs PE/mm cu. ft.

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 1.9 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 emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 5.

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

c. **Emission Limitation(s):**

29.2 lb CO /hr

Applicable Compliance Method:

Compliance with the emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (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 annual emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

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

d. **Emission Limitation:**

0.21 lb OC/hr



Applicable Compliance Method:

See g)(1).

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

e. Emission Limitation:

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

f. Emission Limitation:

2.76 ton PE /yr

128 tons CO /yr

0.93 ton OC /yr

Applicable Compliance Method:

The annual limitations were developed by multiplying the lb/hr limitations by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitations, compliance shall also be shown with the annual limitations.

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

g) Miscellaneous Requirements

(1) The Permit to Install (PTI) for this emissions unit established a Best Available Technology (BAT) OC emissions limit that the permittee cannot show compliance with using correct emissions factors. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.

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



3. F002, Primary Crusher

Operations, Property and/or Equipment Description:

Primary Crusher - Synthetic Gypsum

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-5632 as modified on August 14, 1991)	5.52 ton fugitive particulate emissions (PE) /year Visible fugitive PE shall not exceed 15% opacity, as a six-minute average. Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a, b)(2)b, and b)(2)c.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)d.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)e.

(2) Additional Terms and Conditions

a. The permittee shall employ best available control measures for the crushing process 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 crushing operation 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 crushing operation that will result in material with a sufficient moisture content that will minimize or eliminate visible emissions of fugitive dust for the crushing operation and subsequent material handling operations.

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



- b. For the crushing operation, if 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 crushing operations until further observation confirms that use of the control measures 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.
 - d. 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).
 - e. 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) The maximum material throughput for this emissions unit shall not exceed 283,000 tons per year.
[OAC 3745-31-05(A)(3) and 3745-77-07(A)(1)]
- 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)a in accordance with the following frequencies:

processing /handling operations:	minimum inspection frequency:
crushing operations	daily

 [OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]
 - (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);



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

- (4) The permittee shall collect and record the following information each month:

- a. The total tons per month of material throughput.
- b. The annual, year-to-date tons of material throughput [summation of (4)a, for each calendar month to date from January to December].

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

e) Reporting Requirements

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

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

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

- (2) The permittee shall submit annual reports which specify the total material throughput for this emissions unit.

These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

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

f) Testing Requirements

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

- a. Emission Limitation:
5.52 tons of fugitive PE/year

Applicable Compliance Method:

The emission limitation was established by multiplying the annual throughput limit of 283,000 tons by an emission factor from AP-42 Table 11.19.2-2, revised 08/04 (0.039 pound PE /ton).

Therefore, provided compliance is shown with the annual throughput limitation, compliance with the annual limitation will be assumed.



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

- b. Emission Limitation:
Visible fugitive PE shall not exceed 15% opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(b) of OAC rule 3745-17-03 and 40 CFR 60.675(c)(1) as applicable.

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

- g) Miscellaneous Requirements

- (1) None.



4. F004, Synthetic Gypsum Unloading, Storage & Conveying

Operations, Property and/or Equipment Description:

Unloading, Storage, and Conveying - Synthetic Gypsum

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-11030 as modified on December 4, 2003)	11.8 ton fugitive particulate emissions (PE) /year Visible fugitive PE shall not exceed 10% opacity, as a six-minute average. [See b)(2)e.] Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)a through b)(2)d.]
b.	OAC rule 3745-17-07(B)(1)	See b)(2)f.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)g.

(2) Additional Terms and Conditions

- a. 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	



- b. 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 3745-31-05.
- e. Visible fugitive PE from any conveyance or transfer points associated with the equipment listed in b)(2)a shall not exceed ten percent opacity as a six-minute average.
- f. 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).
- g. 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 the fugitive dust operations/sources in b)(2)a in accordance with the following frequencies:

processing /handling operations:	minimum inspection frequency
all	daily



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

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. Each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. Each instance when a control measure that was to be implemented as a result of an inspection was not implemented.

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

f) Testing Requirements

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

- a. Emission Limitation:
11.8 tons of fugitive PE/year

Applicable Compliance Method:

The emission limitation was established by applying the following equation:



Emissions = EF x MS x CE (1 - 0.85)

EF = emission factor based upon Ohio EPA - Reasonably Available Control Measures for Fugitive Dust Sources, August 1983 (Section 2.1.2, Equation 1), 0.298 lb PE /ton of material

MS = maximum quantity of materials stored (300 tons/yr)

CE = control efficiency for moisture content is assumed to be 85%

Therefore, provided compliance is shown with the requirement to apply best available control measures, compliance with the annual limitation will be assumed.

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

- b. Emission Limitation:
Visible fugitive PE shall not exceed 10% opacity as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 (Standards of Performance for New Stationary Sources") as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(b) of OAC rule 3745-17-03.

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

- g) Miscellaneous Requirements

- (1) None.



5. F005, Paved Roads & Parking Areas

Operations, Property and/or Equipment Description:

Paved Roads & Parking Areas - Entire Facility

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-11030 as modified on December 4, 2003)	0.20 tons fugitive particulate emissions (PE) /yr no visible particulate emissions (PE), except for a period of time not to exceed one minute during any 60-minute observation period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust [See b)(2)b through b)(2)f.)
b.	OAC rule 3745-17-07(B)(1)	See b)(2)g.
c.	OAC rule 3745-17-08(B)(1)	See b)(2)h.

(2) Additional Terms and Conditions

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

paved roadways:
GFP Board Ship
GFP RM
Syngyp Trucks

paved parking areas:
all paved parking areas

b. The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the



above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by sweeping / vacuuming at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other equally-effective control measures to ensure compliance.

- c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- d. The permittee shall promptly remove, in such a manner as to minimize or prevent re-suspension, 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.
- e. 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.
- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 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 the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas	minimum inspection frequency
All	Once per day of operation
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]	

- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient



for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

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

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

- a. the date and reason any required inspection was not performed, 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 in d)(3)d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

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.

The permittee shall submit these reports in accordance with the General Terms and Conditions of this permit.

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

f) Testing Requirements

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

- a. Emission Limitation:
0.20 tons fugitive PE /yr

Applicable Compliance Method:

Compliance may be determined by multiplying the emission factor {for PE based on pounds per vehicle mile traveled (VMT)} for paved 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, (10/02)] by the maximum annual VMT.

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

b. Emission Limitation:

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

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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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

g) Miscellaneous Requirements

(1) The Permit to Install (PTI) for this emissions unit did not include roadways and parking areas encompassing the entire facility as now currently redefined. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.

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



6. P001, Gypsum Rock Dryer

Operations, Property and/or Equipment Description:

Rotary Kiln Dryer - 16 tons /hour (gypsum, and 'synthetic gypsum') - natural gas fired (22 mmBtu/hr) - equipped with 2 cyclones (in parallel) and a baghouse, in series - also feed bin, belt conveyors, screen, product surge bin, and reject storage bunker

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-16225 as modified May 1, 2007)	0.03 gr particulate emissions (PE) /dry standard cubic feet (dscf), 18.0 tons PE /yr (from baghouse) 20.5 tons fugitive PE /yr (from dryer seals, screen, and reject storage bunker) 2.16 lbs nitrogen oxides (NO _x) /hr, 9.50 tons NO _x /yr (natural gas combustion) 1.81 lbs carbon monoxide (CO) /hr, 7.93 tons CO /yr (natural gas combustion) Visible PE shall not exceed 0% opacity, as a 6-minute average (from baghouse) Visible fugitive PE shall not exceed 20% opacity, as a 3-minute average.
b.	OAC rule 3745-17-07(A)	See b)(2)a.
c.	OAC rule 3745-17-11(B)	See b)(2)a.
d.	OAC rule 3745-17-07(B)	See b)(2)b.
e.	OAC rule 3745-17-08(B)	See b)(2)c.
f.	OAC rule 3745-21-08(B)	See b)(2)d.

(2) Additional Terms and Conditions

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



- b. 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).
- c. 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).
- d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- e. The NO_x and CO 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- (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 fugitive operations (dryer seals, screen, and reject storage bunker) associated with this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. The location and color of the emissions;
 - b. Whether the emissions are representative of normal operations;



- c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. The total duration of any visible emission incident; and
- e. Any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- (2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the fugitive operations associated with this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the abnormal visible fugitive 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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

- a. Emission Limitation:



0.03 gr PE /dscf, 18.0 tons PE /yr (from baghouse)

Applicable Compliance Method:

The 0.03 gr PE/dscf limitation is the manufacturer's guaranteed maximum outlet concentration for the baghouse. The permittee shall demonstrate compliance with the ton/yr limitation by multiplying the maximum baghouse outlet concentration of 0.03 gr/dscf by the baghouse's maximum volumetric air flow rate (16,000 acfm). This value is then converted to ton/yr by multiplying by lb/7000 grains and 60 minutes/hour, then multiplied by 8760 hr/yr and ton/2000 lb.

If required, compliance with the gr PE/dscf limitation shall be demonstrated in accordance with 40 CFR, Part 60, Appendix A, Methods 1-5.

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

b. Emission Limitation:

20.5 ton fugitive PE /yr (from dryer seals, screen, and reject storage bunker)

Applicable Compliance Method:

Compliance with this emissions limit may be calculated by adding the fugitive emissions from the dryer seals, the screen, and the reject storage bunker. The fugitive emissions from the individual operations were calculated in accordance with the following:

- i. Dryer seals - emissions were calculated by applying a 75% control efficiency for building enclosure to a maximum uncontrolled emission rate of 58.87 tons/yr. The maximum uncontrolled emission rate was calculated by multiplying a company supplied emission factor of 0.84 lb PE/ton produced, a maximum production rate of 16 tons/hr, a maximum operating schedule of 8,760 hr/yr, and a conversion factor of 1 ton/2000 lbs. (14.72 tons PE/yr)
- ii. Screen - emissions were calculated by applying a 75% control efficiency for building enclosure to a maximum uncontrolled emission rate of 21.02 tons/yr. The maximum uncontrolled emission rate was calculated by multiplying an emission factor of 0.3 lb /ton produced (AP-42, Table 11.19.2-2, 8/04), a maximum production rate of 16 tons/hr, a maximum operating schedule of 8,760 hr/yr, and a conversion factor of 1 ton/2000 lbs. (5.26 tons PE/yr)
- iii. Reject storage bunker - emissions were calculated by multiplying an emission factor of 0.6876 lb /ton by a maximum stock pile load-in rate of 0.16 ton/hr, a maximum operating schedule of 8,760 hr/yr, and a conversion factor of 1 ton/2000 lbs. (0.48 ton PE/yr)

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

c. Emission Limitation:

Visible PE shall not exceed 0% opacity, as a 6-minute average (from baghouse)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, Appendix A, Method 9.

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



- d. Emission Limitation:
Visible fugitive PE 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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- e. Emission Limitation:
2.16 lbs nitrogen oxides (NO_x) /hr, 9.50 ton NO_x /yr (from natural gas combustion)

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying the emission factor (AP-42, Section 1.4, Table 1.4-1.) of 100 lb NO_x /mmscf by a conversion factor of 1 scf /1020 Btu, and by the maximum heat input of 22 mmBtu/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4 and 7 of 40 CFR Part 60, Appendix A.

The annual limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- f. Emission Limitation:
1.81 lbs carbon monoxide (CO) /hr, 7.93 tons CO /yr (from natural gas combustion)

Applicable Compliance Method:
Compliance with the hourly emission limitation shall be determined by multiplying the emission factor (from AP-42, Section 1.4, Table 1.4-1.) of 84 lb CO / mmscf by the a conversion factor of 1 scf/1020 Btu, and by the maximum heat input of 22 mmBtu/hr.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1 - 4, and 10 of 40 CFR Part 60, Appendix A.

The annual limitation was established by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hours/year and ton/2000 lbs. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- g) Miscellaneous Requirements
 - (1) None.



7. P003, Perlite Expander

Operations, Property and/or Equipment Description:

Perlite Expander, with process cyclone, and 2 baghouses (in parallel)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	none [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	none [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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Huron County.

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.



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g) Miscellaneous Requirements

(1) None.



8. P010, Joint Tape Lines 1 and 2

Operations, Property and/or Equipment Description:

Joint Tape Operation (sanders, tape slitters/rewinders) - with process baghouses

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-13301 issued June 21, 2000)	2.16 lb particulate emissions (PE)/hr, 9.46 tons PE/yr 0.01 grains PE/dry standard cubic foot (dscf) See b)(2)a and b)(2)b.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(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 baghouse(s) for control of particulate matter.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

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

c) 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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

f) Testing Requirements

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

- a. Emission Limitation:
2.16 lb PE/hr; 9.46 ton PE /yr

Applicable Compliance Method:
See g)(1).

The annual limitation was developed by multiplying the lb/hr limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]



- b. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) The Permit to Install (PTI) for this emissions unit established a Best Available Technology (BAT) PE emissions limit that the permittee cannot show compliance with using correct emissions control efficiencies. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]



9. P019, Landplaster Bin

Operations, Property and/or Equipment Description:

Landplaster Bin, with process baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	none [See b)(2)a.]
b.	OAC rule 3745-17-07(A)	none [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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Huron County.

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.



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g) Miscellaneous Requirements

(1) None.



10. P020, #3 Kettle

Operations, Property and/or Equipment Description:

#3 Stucco Kettle – n.g., 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 operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	67.0 lbs particulate emissions (PE)/hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. None.

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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

f) Testing Requirements

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

- a. Emission Limitations:
67.0 lbs of PE/hr

Applicable compliance method:

The permittee may determine compliance with the hourly limitation above by multiplying an emission factor [AP-42 Table 11.16-2 (reformatted 1/95)] of 0.0060 lb of PE/ton of product by the emissions unit's maximum production rate (12.40 tons/hr).

If required, compliance with the hourly limitation shall be determined in accordance with OAC rule 3745-17-03(B)(10).

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

- b. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



11. P021, #4 Kettle

Operations, Property and/or Equipment Description:

#4 Stucco Kettle – n.g., 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 operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	67.0 lbs particulate emissions (PE)/hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. None.

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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

f) Testing Requirements

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

- a. Emission Limitations:
67.0 lbs of PE/hr

Applicable compliance method:

The permittee may determine compliance with the hourly limitation above by multiplying an emission factor [AP-42 Table 11.16-2 (reformatted 1/95)] of 0.0060 lb of PE/ton of product by the emissions unit's maximum production rate (12.40 tons/hr).

If required, compliance with the hourly limitation shall be determined in accordance with OAC rule 3745-17-03(B)(10).

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

- b. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



12. P022, Tube Mill

Operations, Property and/or Equipment Description:

Tube Mill (landplaster feed) - with process baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	none [See b)(2)a]
b.	OAC rule 3745-17-07(A)	none [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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Huron County.

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.



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g) Miscellaneous Requirements

(1) None.



13. P023, East & West Packers

Operations, Property and/or Equipment Description:

East and West Packers (plaster) - each with process baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-11(B)(2)	8.8 lbs particulate emissions (PE)/hr
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

(2) Additional Terms and Conditions

a. None.

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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

f) Testing Requirements

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

- a. Emission Limitations:
8.8 lbs of PE/hr

Applicable compliance method:

Compliance may be determined by multiplying the maximum process weight rate (20 tons/hr) by an emission factor of 2.2 lb PE /ton (AP-42 Table 11.17-4, February 1998) and a control factor of (1 - 0.99), i.e. 99 percent control for use of a baghouse.

If required, compliance with the hourly limitation shall be determined in accordance with OAC rule 3745-17-03(B)(10).

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

- b. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



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

Operations, Property and/or Equipment Description:

Finishing Operations (sanders, brushes, saws) - with process baghouses

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-11030 issued December 4, 2003)	10.2 lb particulate emissions (PE)/hr, 44.7 tons PE/yr 0.02 grains PE/dry standard cubic foot (dscf) See b)(2)a and b)(2)b.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(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 (a) baghouse(s) for control of particulate matter.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

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

c) 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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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)]

f) Testing Requirements

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

- a. Emission Limitation:
10.2 lb PE/hr; 44.7 ton PE /yr
0.02 grains PE/dry standard cubic foot (dscf)

Applicable Compliance Method:

The lb/hr limitation was developed by multiplying 0.02 gr PE/dscf (the BAT determination) by the maximum volumetric air flow (60,000 acfm), and the appropriate conversion factors of lb/7000 grains, 1 dscf/1 acfm, 60 minutes/hr.



Compliance with the hourly emission limit and maximum outlet concentration were demonstrated with the results of emissions testing conducted on December 22, 2003.

If required, the permittee shall conduct any future compliance demonstration with the emission limitation(s) in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

The annual limitation was developed by multiplying the lb/hr limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation. [OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. **Emission Limitation:**
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- g) **Miscellaneous Requirements**

- (1) None.



15. P027, 112 MMBtu/hr, 28 Zone Direct Fired Natural Gas Kiln

Operations, Property and/or Equipment Description:

Kiln (board dryer) - 112 mmBtu/hr, n.g. - direct-fired, 28 zones

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05 (A)(3) (PTI 03-11030 as modified on December 4, 2003)	0.11 lb nitrogen oxides (NO _x) /mmBtu of actual heat input (12.3 lb/hr, 54.0 ton/yr) 20.2 lb carbon monoxide (CO)/hr; 88.3 ton CO/yr 0.65 lb organic compounds (OC)/hr; 2.85 ton OC/yr 1.57 lb particulate emissions (PE)/hr; 6.88 ton PE/yr See b)(2)a.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)b.

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

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

c) Operational Restrictions

(1) The permittee shall burn only natural gas as fuel in this emissions unit.
[OAC 3745-31-05(A)(3) and 3745-77-07(A)(1)]



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

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

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 approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass hourly and lb/mmBtu emission rates for NO_x and CO .
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass hourly and lb/mmBtu emission rates:

NO_x: 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7
CO: 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10
 - d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- (2) Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, 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 Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, 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.



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 Director (the Ohio EPA, 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 Director (the Ohio EPA, Northwest District Office).

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

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

a. Emission Limitation:

0.11 lb NO_x /mmBtu of actual heat input (12.3 lb/hr, 54.0 ton/yr)

Applicable Compliance Method:

Compliance with the allowable lbs/mmBtu NO_x emission limitation above may be demonstrated in accordance with the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas (100 lbs NO_x /mm cu. ft).

Compliance with the hourly allowable NO_x emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (106,700 cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas (100 lbs NO_x /mm cu. ft).

Compliance with the hourly and lb/mmBtu emission limits were demonstrated most recently with the results of emissions testing conducted on December 6, 2006.

See also f)(1).

The annual limitation was developed by multiplying the lb/hr limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

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

b. Emission Limitation:

20.2 lb CO/hr

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (106,700 cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 84 lbs CO /mm cu. ft.

If required, the permittee shall demonstrate compliance the hourly allowable CO emission limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

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

c. Emission Limitation:

0.65 lb OC/hr



Applicable Compliance Method:

Compliance with the hourly allowable OC emission limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (106,700 cu. ft./hour) by the AP-42, Table 1.4-1 (revised 7/98) emission factor for natural gas of 5.5 lbs OC /mm cu. ft.

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

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

- d. Emission Limitations:
1.57 lb PE/hr

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation may be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (106,700 cu. ft./hour) by the AP-42, Table 1.4-2 (revised 7/98) emission factor for natural gas of 1.9 lbs PE/mm cu. ft.

If required, the permittee shall demonstrate compliance with the hourly and lb/mmBtu allowable PE limitations in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5.

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

- e. Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

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

- f. Emission Limitation:
88.3 ton CO/yr
2.85 ton OC/yr
6.88 ton PE/yr

Applicable Compliance Method:

The annual limitations were developed by multiplying the lb/hr limitations by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitations, compliance shall also be shown with the annual limitations.

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

g) Miscellaneous Requirements

- (1) Recent emissions testing has shown results for certain pollutants that cannot comply with this permit for this emissions unit. Therefore, as the initial step for this emissions



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unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]



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

Operations, Property and/or Equipment Description:

Conveying, Grinding, Storage, Ball Mill - Stucco - with process baghouses

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-10712 issued December 18, 1997)	0.09 lb particulate emissions (PE)/hr, 0.40 tons PE/yr 0.02 grains PE/dry standard cubic foot (dscf) See b)(2)a and b)(2)b.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(2)	See b)(2)c.

(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 (a) baghouse(s) for control of particulate matter.

b. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

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

c) 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. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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)]

f) Testing Requirements

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

- a. Emission Limitation:
0.09 lb PE/hr; 0.40 ton PE /yr
0.02 grains PE/dry standard cubic foot (dscf)

Applicable Compliance Method:
See g)(1).

If required, the permittee shall conduct any future compliance demonstration with the emission limitation(s) in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.



The annual limitation was developed by multiplying the lb/hr limitation by 8760, and then dividing by 2000. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) The Permit to Install (PTI) for this emissions unit established a Best Available Technology (BAT) PE emissions limit that the permittee cannot show compliance with using correct emissions control efficiencies. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]



17. P036, Landplaster Packer (12 TPH)

Operations, Property and/or Equipment Description:

Landplaster Packer (12 ton/hr) - with process recovery baghouse

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-17050 issued March 16, 2006)	0.02 grains particulate matter emissions less than 10 microns in size (PM ₁₀)/dry standard cubic feet (dscf); 4.50 tons PM ₁₀ /yr [See b)(2)d.] Visible particulate emissions (PE) shall not exceed 5% opacity, as a 6-minute average. See b)(2)a.
b.	OAC rule 3745-17-11(B)	See b)(2)b.
c.	OAC rule 3745-17-07(A)	See b)(2)c.

(2) Additional Terms and Conditions

a. Best available technology (BAT) requirements for this emission unit has been determined to be a maximum outlet concentration of 0.02 gr PM₁₀ /dscf from the process recovery baghouse.

b. 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 located in Ottawa County.

c. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

d. All particulate matter emissions are PM₁₀.



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. 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 abnormal visible emissions.
- [OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify all days during which visible particulate emissions were observed from the stack serving 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 Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.
- [OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):
- a. Emission Limitation:
0.02 gr PM₁₀/dscf, 4.50 tons PM₁₀/yr

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf limitation is the established maximum outlet concentration for the process recovery baghouse. The permittee shall demonstrate compliance with the ton/yr limitation by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf by the baghouse's maximum volumetric air flow rate (6,000 acfm). This value is then converted to ton/yr by multiplying by lb/7000 grains and 60 minutes/hour, then multiplied by 8760 hr/yr and ton/2000 lb.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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, Northwest District Office.



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

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, Appendix A, Method 9.

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

- g) Miscellaneous Requirements

- (1) None.



18. P037, Ready Mix Line 1

Operations, Property and/or Equipment Description:

Ready Mix Line No. 1

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI 03-17309 issued May 29, 2008)	Baghouse emissions: Particulate matter equal to or less than 10 microns in size (PM ₁₀) shall not exceed 0.02 grain per dry standard cubic foot (dscf) 3.60 tons per rolling, 12-month period for PM ₁₀ Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the baghouse stacks. Non-baghouse emissions: 3.18 tons per rolling, 12-month period for fugitive PE Visible PE shall not exceed 20% opacity, as a 3-minute average from building egress points. See b)(2)a.
b.	OAC rule 3745-17-11(B)	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 3745-31-05(A)(3)(a)(ii)	See b)(2)f.



(2) Additional Terms and Conditions

- a. This permit establishes a 3.60 tons PM₁₀ per rolling, 12-month period federally enforceable emission limitation based on a maximum outlet concentration of 0.02 grains PM₁₀/dscf. This permit also establishes a 3.18 tons PE per rolling, 12-month period federally enforceable emission limitation taking into account the 95 percent capture efficiency of emissions by the baghouse and approximately 70 percent control efficiency for the building enclosure. These federally enforceable emission limitations are being established on an existing emissions unit to limit the potential to emit (PTE).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(C).
- 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(C).
- 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 Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PE from this air contaminant source since the calculated annual emission rate for PM₁₀ and PE is less than ten tons per year taking into account the federally enforceable rule limit of 3.60 tons PM₁₀ per rolling, 12-month period from the baghouses, and 3.18 tons PM per rolling, 12-month period from building egress points under OAC rule 3745-31-05(D).

All particulate matter emissions from the baghouse are PM₁₀.

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 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 abnormal visible emissions.



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

(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.

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

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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



- a. Emission Limitations: (from the baghouse stacks)
0.02 gr PM₁₀/dscf
3.60 tons per rolling, 12-month period for PM₁₀

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf emission limitation was established in accordance with the maximum outlet concentration for the two baghouses. The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, the maximum combined volumetric air flow rate (4800 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to convert 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 0.02 gr PM₁₀/dscf limitation, compliance with the annual limitation shall be assumed.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation: (from the building)
3.18 tons per rolling, 12-month period for PE

Applicable Compliance Method:

The annual limitation was established by multiplying the AP-42 Table 11.17-4 emission factor of 2.2 lbs/ton material processed by the maximum production rate of 22 tons/hr, and the 95 percent capture efficiency (0.05), and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.

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

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

Applicable Compliance Method:

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

- d. Emission Limitation:
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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.

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



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g) Miscellaneous Requirements

(1) None.



19. P038, Ready Mix Line 2

Operations, Property and/or Equipment Description:

Ready Mix Line 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 operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI 03-17309 issued May 29, 2008)	Baghouse emissions: Particulate matter equal to or less than 10 microns in size (PM ₁₀) shall not exceed 0.02 grain per dry standard cubic foot (dscf) 1.20 tons per rolling, 12-month period for PM ₁₀ Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the baghouse stacks. Non-baghouse emissions: 2.60 tons per rolling, 12-month period for fugitive PE Visible PE shall not exceed 20% opacity, as a 3-minute average from building egress points. See b)(2)a.
b.	OAC rule 3745-17-11(B)	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 3745-31-05(A)(3)(a)(ii)	See b)(2)f.



(2) Additional Terms and Conditions

- a. This permit establishes a 1.20 tons PM₁₀ per rolling, 12-month period federally enforceable emission limitation based on a maximum outlet concentration of 0.02 grains PM₁₀/dscf. This permit also establishes a 2.60 tons PE per rolling, 12-month period federally enforceable emission limitation taking into account the 95 percent capture efficiency of emissions by the baghouse and approximately 70 percent control efficiency for the building enclosure. These federally enforceable emission limitations are being established on an existing emissions unit to limit the potential to emit (PTE).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(C).
- 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(C).
- 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 Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PE from this air contaminant source since the calculated annual emission rate for PM₁₀ and PE is less than ten tons per year taking into account the federally enforceable rule limit of 1.20 tons PM₁₀ per rolling, 12-month period from the baghouses, and 2.60 tons PM per rolling, 12-month period from building egress points under OAC rule 3745-31-05(D).

All particulate matter emissions from the baghouse are PM₁₀.

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 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 abnormal visible emissions.



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

(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.

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

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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



- a. Emission Limitations: (from the baghouse stacks)
0.02 gr PM₁₀/dscf
1.20 tons per rolling, 12-month period for PM₁₀

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf emission limitation was established in accordance with the maximum outlet concentration for the two baghouses. The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, the maximum combined volumetric air flow rate (1600 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to convert 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 0.02 gr PM₁₀/dscf limitation, compliance with the annual limitation shall be assumed.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation: (from the building)
2.60 tons per rolling, 12-month period for PE

Applicable Compliance Method:

The annual limitation was established by multiplying the AP-42 Table 11.17-4 emission factor of 2.2 lbs/ton material processed by the maximum production rate of 18 tons/hr, and the 95 percent capture efficiency (0.05), and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.

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

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

Applicable Compliance Method:

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

- d. Emission Limitation:
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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.

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



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Division of Air Pollution Control

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g) Miscellaneous Requirements

(1) None.



20. P039, Simplex Mixer

Operations, Property and/or Equipment Description:

Simplex Mixer

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI 03-17309 issued May 29, 2008)	Baghouse emissions: Particulate matter equal to or less than 10 microns in size (PM ₁₀) shall not exceed 0.02 grain per dry standard cubic foot (dscf) 0.44 tons per rolling, 12-month period for PM ₁₀ Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the baghouse stacks. Non-baghouse emissions: 0.24 tons per rolling, 12-month period for fugitive PE Visible PE shall not exceed 20% opacity, as a 3-minute average from building egress points. See b)(2)a.
b.	OAC rule 3745-17-11(B)	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 3745-31-05(A)(3)(a)(ii)	See b)(2)f.



(2) Additional Terms and Conditions

- a. This permit establishes a 0.44 tons PM₁₀ per rolling, 12-month period federally enforceable emission limitation based on a maximum outlet concentration of 0.02 grains PM₁₀/dscf. This permit also establishes a 0.24 tons PE per rolling, 12-month period federally enforceable emission limitation taking into account the 95 percent capture efficiency of emissions by the baghouse and approximately 70 percent control efficiency for the building enclosure. These federally enforceable emission limitations are being established on an existing emissions unit to limit the potential to emit (PTE).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(C).
- 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(C).
- 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 Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PE from this air contaminant source since the calculated annual emission rate for PM₁₀ and PE is less than ten tons per year taking into account the federally enforceable rule limit of 0.44 tons PM₁₀ per rolling, 12-month period from the baghouses, and 0.24 tons PM per rolling, 12-month period from building egress points under OAC rule 3745-31-05(D).

All particulate matter emissions from the baghouse are PM₁₀.

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 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 abnormal visible emissions.



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

(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.

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

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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



- a. Emission Limitations: (from the baghouse stacks)
0.02 gr PM₁₀/dscf
0.44 tons per rolling, 12-month period for PM₁₀

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf emission limitation was established in accordance with the maximum outlet concentration for the two baghouses. The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, the maximum combined volumetric air flow rate (588 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to convert 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 0.02 gr PM₁₀/dscf limitation, compliance with the annual limitation shall be assumed.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation: (from the building)
0.24 tons per rolling, 12-month period for PE

Applicable Compliance Method:

The annual limitation was established by multiplying the AP-42 Table 11.17-4 emission factor of 2.2 lbs/ton material processed by the maximum production rate of 1.66 tons/hr, and the 95 percent capture efficiency (0.05), and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.

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

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

Applicable Compliance Method:

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

- d. Emission Limitation:
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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.

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



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g) Miscellaneous Requirements

(1) None.



21. P040, #4 Mixer

Operations, Property and/or Equipment Description:

No. 4 Mixer

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI 03-17309 issued May 29, 2008)	Baghouse emissions: Particulate matter equal to or less than 10 microns in size (PM ₁₀) shall not exceed 0.02 grain per dry standard cubic foot (dscf) 3.30 tons per rolling, 12-month period for PM ₁₀ Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the baghouse stacks. Non-baghouse emissions: 0.77 tons per rolling, 12-month period for fugitive PE Visible PE shall not exceed 20% opacity, as a 3-minute average from building egress points. See b)(2)a.
b.	OAC rule 3745-17-11(B)	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 3745-31-05(A)(3)(a)(ii)	See b)(2)f.



(2) Additional Terms and Conditions

- a. This permit establishes a 3.30 tons PM₁₀ per rolling, 12-month period federally enforceable emission limitation based on a maximum outlet concentration of 0.02 grains PM₁₀/dscf. This permit also establishes a 0.77 tons PE per rolling, 12-month period federally enforceable emission limitation taking into account the 95 percent capture efficiency of emissions by the baghouse and approximately 70 percent control efficiency for the building enclosure. These federally enforceable emission limitations are being established on an existing emissions unit to limit the potential to emit (PTE).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(C).
- 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(C).
- 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 Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PE from this air contaminant source since the calculated annual emission rate for PM₁₀ and PE is less than ten tons per year taking into account the federally enforceable rule limit of 3.30 tons PM₁₀ per rolling, 12-month period from the baghouses, and 0.77 tons PM per rolling, 12-month period from building egress points under OAC rule 3745-31-05(D).

All particulate matter emissions from the baghouse are PM₁₀.

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 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 abnormal visible emissions.



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

- (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.

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

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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



- a. Emission Limitations: (from the baghouse stacks)
0.02 gr PM₁₀/dscf
3.30 tons per rolling, 12-month period for PM₁₀

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf emission limitation was established in accordance with the maximum outlet concentration for the two baghouses. The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, the maximum combined volumetric air flow rate (4400 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to convert 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 0.02 gr PM₁₀/dscf limitation, compliance with the annual limitation shall be assumed.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation: (from the building)
0.77 tons per rolling, 12-month period for PE

Applicable Compliance Method:

The annual limitation was established by multiplying the AP-42 Table 11.17-4 emission factor of 2.2 lbs/ton material processed by the maximum production rate of 5.35 tons/hr, and the 95 percent capture efficiency (0.05), and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.

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

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

Applicable Compliance Method:

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

- d. Emission Limitation:
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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.

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



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g) Miscellaneous Requirements

(1) None.



22. P041, Paint Mixers #2 and #3

Operations, Property and/or Equipment Description:

Paint Mixers #2 and #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 operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(D) (PTI 03-17309 issued May 29, 2008)	Baghouse emissions: Particulate matter equal to or less than 10 microns in size (PM ₁₀) shall not exceed 0.02 grain per dry standard cubic foot (dscf) 1.88 tons per rolling, 12-month period for PM ₁₀ Visible particulate emissions (PE) shall not exceed 5% opacity, as a six-minute average from the baghouse stacks. Non-baghouse emissions: 5.03 tons per rolling, 12-month period for fugitive PE Visible PE shall not exceed 20% opacity, as a 3-minute average from building egress points. See b)(2)a.
b.	OAC rule 3745-17-11(B)	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 3745-31-05(A)(3)(a)(ii)	See b)(2)f.
g.	OAC rule 3745-21-07(G)(2)	None [See b)(2)g]
h.	OAC rule 3745-31-05(A)(3)(a)	2.45 lb volatile organic compounds (VOC) /hr; 10.7 tons VOC /yr



(2) Additional Terms and Conditions

- a. This permit establishes a 1.88 tons PM₁₀ per rolling, 12-month period federally enforceable emission limitation based on a maximum outlet concentration of 0.02 grains PM₁₀/dscf. This permit also establishes a 5.03 tons PE per rolling, 12-month period federally enforceable emission limitation taking into account the 95 percent capture efficiency of emissions by the baghouse and approximately 70 percent control efficiency for the building enclosure. These federally enforceable emission limitations are being established on an existing emissions unit to limit the potential to emit (PTE).
- b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(C).
- 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(C).
- 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 Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PM₁₀ and PE from this air contaminant source since the calculated annual emission rate for PM₁₀ and PE is less than ten tons per year taking into account the federally enforceable rule limit of 1.88 tons PM₁₀ per rolling, 12-month period from the baghouses, and 5.03 tons PM per rolling, 12-month period from building egress points under OAC rule 3745-31-05(D).

All particulate matter emissions from the baghouse are PM₁₀.

- g. This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in *Ashland Chem. Co. v. Jones* (2001), 92 Ohio St.3.d 234, i.e. this emissions unit does not employ, apply, evaporate or dry liquid organic materials.
- h. The hourly OC emission limitation for coatings represents the potential to emit for this emissions unit. Therefore, no monitoring, recordkeeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

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 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 abnormal visible emissions.

(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.

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

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify 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 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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

f) Testing Requirements

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

- a. Emission Limitations: (from the baghouse stacks)
 0.02 gr PM₁₀/dscf
 1.88 tons per rolling, 12-month period for PM₁₀

Applicable Compliance Method:

The 0.02 gr PM₁₀/dscf emission limitation was established in accordance with the maximum outlet concentration for the two baghouses. The annual limitation was established by multiplying the maximum baghouse outlet concentration of 0.02 gr/dscf, the maximum combined volumetric air flow rate (2500 acfm) contributed from this emissions unit to the baghouses, and using the following conversion factors in order to convert 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 0.02 gr PM₁₀/dscf limitation, compliance with the annual limitation shall be assumed.

If required, the permittee shall demonstrate compliance with the gr PM₁₀/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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- b. Emission Limitation: (from the building)
 5.03 tons per rolling, 12-month period for PE

Applicable Compliance Method:

The annual limitation was established by multiplying the AP-42 Table 6.4-1 (05/83) emission factor of 20 lbs/ton solids material mixed by the maximum amount of coating solids of 12.77 lb/gallon, and a maximum production rate of 600 gal/hr, and the 95 percent capture efficiency (0.05), and the approximately 70 percent control efficiency (.30), and multiplying by 8760 hours/year and 1 ton/2000 lbs.

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

- c. Emission Limitation:
 2.45 lb VOC /hr; 10.7 tons VOC /yr

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 AP-42 Table 5.2-4 (01/95) loading emission factor of 4.08 lb VOC / 1000 gallon by the maximum production rate of 600 gal/hr.



The annual allowable VOC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, if compliance is shown with the hourly limitation, compliance is shown with the annual limitation.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

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

Applicable Compliance Method:
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 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- e. Emission Limitation:
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 in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) (B)(3)(b) of OAC and rule 3745-17-03.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- g) Miscellaneous Requirements

- (1) None.



23. R004, Double Sided Spray Booth #2 - GFP

Operations, Property and/or Equipment Description:

Spray booth #2, with dry filtration - GFP (gypsum board)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 03-13260 issued December 1, 1999)	0.7 lb particulate emissions (PE)/hr; 2.9 tons PE/yr Visible PE shall not exceed 0% opacity, as a six-minute average 5.2 lbs organic compounds (OC)/hr; 22.5 tons OC/yr See c)(2).
b.	OAC rule 3745-21-07(G)	See c)(1).
c.	OAC rule 3745-17-11(B)	None [See b)(2)a and b)(2)d]
d.	OAC rule 3745-17-07(A)	None [See b)(2)b and b)(2)d]
e.	OAC rule 3745-17-11(C)	See b)(2)c and c)(3)

(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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Auglaize County.

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. On February 1, 2008, OAC rule 3745-17-11 was revised to include paragraph (C) pertaining to requirements for controlling of particulate emissions from surface coating processes. Paragraph (C) of OAC rule 3745-17-11, and c)(1) of this permit for this emissions unit, shall be federally enforceable on the date the U.S.



EPA approves paragraph (C) of OAC rule 3745-17-11 as a revision to the Ohio State Implementation Plan.

- d. The requirements to comply with this rule shall terminate on the date the U.S. EPA approves the requirements based on OAC rule 3745-17-11(C) as a revision to the Ohio SIP for particulate emissions.
- e. The hourly OC emission limitation represents the potential to emit for this emissions unit. Therefore, no monitoring, recordkeeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

c) Operational Restrictions

- (1) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- (2) The use of clean-up materials containing organic compounds in this emissions unit is prohibited.
[OAC 3745-31-05(A)(3) and 3745-77-07(C)(1)]
- (3) The spray coating operation for this emissions unit shall be controlled by a dry particulate filter, waterwash, or equivalent control device or devices. The permittee shall follow all of these work practices:
 - a. The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the control devices with any modifications deemed necessary by the permittee during the time period in which the control devices are utilized.
 - b. The permittee shall operate the control devices in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee.
 - c. The permittee shall conduct periodic inspections of the control devices to determine whether the devices are operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee. The periodic inspections of each control device shall be performed at a frequency that is based upon the recommendation of the manufacturer of the control device, and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency. In addition to these periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the control device while the emissions unit is shut down and perform any needed maintenance and repair for the control device to ensure that it is able to routinely operate in accordance with the manufacturer's recommendations.
 - d. The permittee shall document each inspection of a control device by maintaining a record that includes the date of the inspection, a description of each problem identified and the date it was corrected, a description of the maintenance and repairs performed, and the name of the person who performed the inspection.



- e. In the event that the control devices are not operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee, the control devices shall be expeditiously repaired or otherwise returned to operation in accordance with such requirements. The permittee shall maintain documentation of those periods when the control devices are not operating in accordance with such requirements.

Any documentation required under c)(3)a shall be maintained for not less than five years, and shall be made available to Ohio EPA upon request.
[OAC 3745-77-07(C)(1) and OAC 3747-17-11(C)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall calculate and record the following information each month for this emissions unit:
 - a. the company identification for each coating and cleanup material employed;
 - b. documentation on whether or not each coating employed is a photochemically reactive material; and
 - c. documentation on whether or not each clean-up material employed contains organic compounds.

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

e) Reporting Requirements

- (1) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing the use of non-complying materials (i.e., photochemically reactive coatings, and/or cleanup material containing organic compounds) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days of the date of the daily record indicating non-compliance.

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

f) Testing Requirements

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

Emission Limitations:
5.2 lbs of OC/hr; 22.5 tons of OC/yr

Applicable Compliance Method:
The hourly OC emission limitation was established by multiplying the maximum OC content of all the coatings (lbs OC/gallon of coating) by the maximum hourly coating usage rate (gallons/hour).

[Additional note: the permittee has made a process change to the use of non-OC-containing water-based coating]



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The annual allowable VOC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, if compliance is shown with the hourly limitation, compliance is shown with the annual limitation.

Formulation data or US EPA Method 24 shall be used to determine the OC content of the coatings / clean-up materials.

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

g) Miscellaneous Requirements

- (1) None.



24. R007, GFP Black Inking Station

Operations, Property and/or Equipment Description:

Black Inking Station - GFP (gypsum board)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	See g)(1).
b.	OAC rule 3745-21-07(G)	See b)(2)a and c)(1).

(2) Additional Terms and Conditions

a. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall calculate and record the following information each month for this emissions unit:

- a. the company identification for each coating and clean-up material employed; and
- b. documentation on whether or not each coating and clean-up material employed is a photochemically reactive material.



e) Reporting Requirements

- (1) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing the use of non-complying materials (i.e., photochemically reactive coatings and/or cleanup materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days of the date of the record indicating non-compliance.

f) Testing Requirements

- (1) Formulation data or US EPA Method 24 shall be used to determine the OC content of the coatings / clean-up materials.

g) Miscellaneous Requirements

- (1) This emissions unit was installed in 1999 prior to obtaining a Permit to Install (PTI). Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 2 months following the issuance of this permit.



25. R008, GFP Blue Inking Station

Operations, Property and/or Equipment Description:

Black Inking Station - GFP (gypsum board)

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	See g)(1).
b.	OAC rule 3745-21-07(G)	See b)(2)a and c)(1).

(2) Additional Terms and Conditions

a. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall calculate and record the following information each month for this emissions unit:

- a. the company identification for each coating and clean-up material employed; and
- b. documentation on whether or not each coating and clean-up material employed is a photochemically reactive material.



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e) Reporting Requirements

- (1) The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing the use of non-complying materials (i.e., photochemically reactive coatings and/or cleanup materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days of the date of the record indicating non-compliance.

f) Testing Requirements

- (1) Formulation data or US EPA Method 24 shall be used to determine the OC content of the coatings / clean-up materials.

g) Miscellaneous Requirements

- (1) This emissions unit was installed in 1999 prior to obtaining a Permit to Install (PTI). Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 2 months following the issuance of this permit.