

Facility ID: 0351000051 Issuance type: Title V Proposed Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

Z016 - Caledonia diesel storage tank; and
Z017 - diesel storage tank.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install (PTI) for the emissions unit.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: F001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw material storage piles (clay and shale)	OAC rule 3745-31-05 (PTI #03-13047)	10.41 tons fugitive particulate emissions (PE)/year
		no visible emissions of fugitive PE from any material storage pile, except for a period of time not to exceed 13 minutes during any 60-minute observation period
		best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.a through A.I.2.e)
	OAC rule 3745-17-07(B)	none (See A.I.2.f.)
	OAC rule 3745-17-08(B)	None (See A.I.2.g.)

2. Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
 - (a) all raw material storage piles
- b. The permittee shall employ best available technology on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintain minimal drop height to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- c. The above-mentioned best available technology shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available technology for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has determined that there is sufficient inherent moisture to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. Implementation of the above-mentioned best available in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 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. This 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).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The following Monitoring and/or Record keeping Requirements shall apply to this emissions unit:
 - a. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification: All

minimum load-in inspection frequency: Daily
 - b. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification: All

minimum load-out inspection frequency: Daily
 - c. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit, and/or any other necessary control measures, for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
 - d. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
 - e. The permittee shall maintain records of the following information:
 - i. 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;
 - ii. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - iii. the dates the control measures were implemented; and
 - iv. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in A.III.1.g.iv shall be kept separately for (a) the load-in operations, (b) the load-

out operations, and (c) the pile surfaces (wind erosion) and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences for this emissions unit:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/ or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
10.40 tons fugitive PE/year

Applicable Compliance Method:
Compliance shall be determined according to the following equation [State of Iowa Procedure (Form 2.8)]:

annual emissions (tons) = maximum annual throughput (tons/year) x PE/2000

Where:

PE (emission factor, in lb/ton) = PM10 x 2 = 0.1721 lb PE/ton
PM10 (lb PM10/ton) = LI/LO + WE + A = 0.086 lb PM10/ton
LI/LO = 0.00224 x [(mean wind speed)/d]^51.3 / [(% moisture)/2]^1.4
WE = 0.025 x [(% silt) / 1.5] x [(storage days / 90) x [dry days / 235] x [% windy days / 15]
A = .05 x [(% silt) / 1.5] x [dry days / 235] x (vehicle activity factor)
mean wind speed = 10 miles/hour
% wind > 12 = 32
% moisture = 6.5%
storage days = 365
% silt = 0.5%
dry days = 225
vehicle activity factor = 1.0

Note: assume 30% control efficiency for inherent moisture and precautions.
 - b. Emission Limitation: no visible fugitive emissions from any raw material storage pile except for a period of time not to exceed 13 minutes during any 60-minute observation period

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: F001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: F002 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
paved and unpaved plant roadways and parking lots (excluding quarry roadways)	OAC rule 3745-31-05 (PTI # 03-13047)	58.73 tons fugitive particulate emissions (PE)/year See A.I.2.a. best available technology that is sufficient to minimize or eliminate visible emissions of fugitive dust (see A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)

2. Additional Terms and Conditions

- a. The following opacity restrictions shall apply to this emissions unit:
 - a. i. There shall be no visible fugitive PE from any paved roadways or parking areas except for a period of time not to exceed 1 minute during any 60-minute observation period.
 - a. ii. There shall be no visible fugitive PE from any unpaved roadways or parking areas except for a period of time not to exceed 3 minutes during any 60-minute observation period.
- b. The permittee shall employ the following control measures for the roadways and parking areas to comply with the mass emission limitations and opacity restrictions established by this permit:
 - i. For paved roadways and parking areas:
 - (a) The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: sweeper. The paved surfaces shall be swept, at a minimum, every week. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
 - (b) Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
 - ii. For unpaved roadways and parking areas:
 - (a) The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Watering shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: truck and/or hose/sprinkler system. The dust suppressant shall be applied to the unpaved surfaces, at a minimum, 3 times a week. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
 - (b) Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
- iii. A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.
- iv. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
- c. This emissions unit is exempt from the visible emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This facility is not located within an "Appendix A" area 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).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which include the following information for the paved roadways and parking areas:
 - a. Each date the paved surfaces were swept.
 - b. For each date in 1.a, the portions of the paved surfaces that were swept.
 - c. The name of the equipment operator responsible for each sweeping.
2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
 - a. Each date dust suppressants were applied to the unpaved surfaces.
 - b. For each date in 2.a, the portions of unpaved surfaces that were treated with dust suppressants.
 - c. For each date in 2.a, the application rate of water and any chemical additives (gallons of each per square yard).
 - d. The name of the equipment operator responsible for each application of the dust suppressants.

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
58.73 tons fugitive PE/year

Applicable Compliance Method:
Compliance shall be determined by calculating the emissions from the paved and unpaved roadways and parking areas utilizing AP-42 emission factors, sections 13.2.1 (paved roadways) (revised 1997) and 13.2.2 (unpaved roadways) [revised 1998].
 - b. Emission Limitation: no visible fugitive emissions from any paved roadway or parking area except for a period of time not to exceed 1 minute during any 60-minute observation period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.
 - c. Emission Limitation: no visible fugitive emissions from any unpaved roadway or parking area except for a period of time not to exceed 3 minutes during any 60-minute observation period

Applicable Compliance Method: If required, the permittee shall demonstrate compliance in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: F002 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Caledonia crusher	OAC rule 3745-17-07(B)	none (See A.I.2.a.)
	OAC rule 3745-17-08(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

- a. 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).
- b. This 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).

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: P001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #1 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE 0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx

- | | | |
|--|------------------------|---|
| | OAC rule 3745-17-07(A) | 1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO |
| | OAC rule 3745-17-11(B) | none (See A.I.2.a.) |
| | | none (See A.I.2.b.) |
2. **Additional Terms and Conditions**
- a. This emissions unit is exempt from the visible emissions 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.
 - 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
 - c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. Operational Restrictions

1. The permittee shall only burn natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping 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.

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IV. Reporting Requirements

1. The permittee shall submit quarterly 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.

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P002 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #2 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. **Operational Restrictions**

- 1. The permittee shall only burn natural gas in this emissions unit.

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III. **Monitoring and/or Record Keeping 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.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly 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.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitations:**
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. **Emission Limitations:**
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.
 - c. **Emission Limitations:**
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P002 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P003 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #3 (1 mmBtu/hr natural gas, direct	OAC rule 3745-31-05	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE

fired brick dryer)	(PTI #03-13047)	0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. **Operational Restrictions**

- 1. The permittee shall only burn natural gas in this emissions unit.

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III. **Monitoring and/or Record Keeping 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.

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IV. **Reporting Requirements**

- 1. The permittee shall submit quarterly 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.

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V. **Testing Requirements**

- 1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation

pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P004 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #4 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. **Operational Restrictions**

- 1. The permittee shall only burn natural gas in this emissions unit.

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III. **Monitoring and/or Record Keeping 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.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly 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.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:

Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:

Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P004 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: P005 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #5 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE 0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx 1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. **Additional Terms and Conditions**

- This emissions unit is exempt from the visible emissions 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.
- 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 I does not apply because the facility is located in Marion County.
- The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. Operational Restrictions

- The permittee shall only burn natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

- 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.

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IV. Reporting Requirements

- The permittee shall submit quarterly 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.

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V. Testing Requirements

- Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was

calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P005 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P006 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #6 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. **Additional Terms and Conditions**

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. **Operational Restrictions**

1. The permittee shall only burn natural gas in this emissions unit.

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III. **Monitoring and/or Record Keeping 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.

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly 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.

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.
 - c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P006 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: P007 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
dryer #7 (1 mmBtu/hr natural gas, direct fired brick dryer)	OAC rule 3745-31-05 (PTI #03-13047)	0.30 lb particulate emissions (PE)/hr, 1.31 TPY PE
		0.38 lb nitrogen oxides (NOx)/hr, 1.66 TPY NOx
		1.21 lbs carbon monoxide (CO)/hr, 5.30 TPY CO
	OAC rule 3745-17-07(A)	none (See A.I.2.a.)
	OAC rule 3745-17-11(B)	none (See A.I.2.b.)

2. Additional Terms and Conditions

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The 0.3 lb PE/hr, 1.31 tons PE/yr, 0.38 lb NOx/hr, 1.66 tons NOx/yr, 1.21 lbs CO/hr and 5.30 tons CO/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. Operational Restrictions

- 1. The permittee shall only burn natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping 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.

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly 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.

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V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
0.30 pound PE/hour and 1.31 tons PE/year

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.077 pound of PE per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitations:
0.38 pound NOx/hour and 1.66 tons NOx/year

Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.098 pound of NOx per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
1.21 pounds CO/hour and 5.30 tons CO/year

Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.310 pound of CO per ton of brick by the maximum hourly production rate of 3.90 TPH of brick dried.

Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P007 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P008 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
47.6 mmBtu/hr, natural gas, direct-fired tunnel kiln	OAC rule 3745-31-05 (PTI #03-13047)	6.54 lbs particulate emissions (PE)/hr, 28.65 TPY PE
		0.43 lb volatile organic compounds (VOC)/hr, 1.88 TPY VOC
		182.60 lbs sulfur dioxide (SO ₂)/hr
		6.18 lbs nitrogen oxides (NO _x)/hr, 27.07 TPY NO _x
		21.20 lbs carbon monoxide (CO)/hr, 92.86 TPY CO
		5.68 lbs hydrogen fluoride (HF)/hr, 24.88 TPY HF
		3.0 lbs hydrogen chloride (HCl)/hr, 13.15 TPY HCl
		230.0 tons SO ₂ /year, based upon a rolling, 12-month summation of the monthly SO ₂ emission rates (see A.I.2.d)
		none (See A.I.2.a.)
		none (See A.I.2.b.)
	OAC rule 3745-17-07(A)	See A.I.2.c.
	OAC rule 3745-17-11(B)	
	OAC rule 3745-18-06	

2. Additional Terms and Conditions

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

- d. The monthly SO₂ emissions from this emissions unit are directly related to the monthly process weight rates of raw materials and the sulfur content of raw materials processed. Limiting SO₂ emissions from the kiln effectively restricts kiln production. Monthly SO₂ emission rates shall be calculated as described in section A.III.1 of this permit.
- e. The 6.54 lbs PE/hr, 28.65 tons PE/yr, 0.43 lb VOC/hr, 1.88 tons VOC/yr, 21.2 lbs CO/hr, 92.86 CO tons/yr, 3.0 lbs HCl/hr and 13.15 tons HCl/yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

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II. Operational Restrictions

- 1. The permittee shall only burn natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The process weight rate of each brick body raw material employed.
 - b. The weight fraction of sulfur in each brick body raw material processed.
 - c. The SO₂ emissions from the raw materials, in tons, calculated as follows:
 - i. for each brick body raw material where stack testing emission data is not available:

$$S1 \text{ (tons/month)} = \text{weight fraction of sulfur in each raw material} \times 1.998 \text{ (conversion factor)} \times Pr$$
 where:
 Pr = the monthly process weight rate (in tons) of each raw material
 $S1$ = SO₂ emissions (in tons per month)
 - ii. for each brick body raw material where stack testing emission data is available:

$$S2 = \text{SO}_2 \text{ emission rate (based on emission testing data), in lbs/ton} \times Pr / 2000$$
 where:
 Pr = the monthly process weight rate (in tons) of raw material
 $S2$ = SO₂ emissions (in tons per month);
 - iii. for all brick body raw materials:

$$S3 = [\text{summation of } S1i] \text{ for } i = 1, 2, \dots, n + [\text{summation of } S2j] \text{ for } j = 1, 2, \dots, m$$
 where:
 i = a brick body raw material for which stack testing emission data is not available
 j = a brick body raw material for which stack testing emission data is available
 $S1i$ = the SO₂ emission rate (tons/month) for raw material i
 $S2j$ = the SO₂ emission rate (tons/month) for raw material j
 $S3$ = total monthly SO₂ emissions, in tons
 - d. The rolling, 12-month summation of the monthly SO₂ emissions, in tons.
 - e. The number of hours the emissions unit was in operation.
 - f. The average hourly SO₂ emissions [$S3$ (from Section 1.c.iii) \times 2000/1.e], in pounds (average).
- 2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. 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.
2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month SO2 emission limitation of 230 tons; and
 - b. all exceedances of the hourly SO2 emission limitation of 182.60 lbs.
3. These reports as denoted in term A.IV.2. are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit while both this emissions unit and emissions unit P011 are running simultaneously, in accordance with the following requirements:
 - a. The emission testing shall be conducted 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for SO2, HF and PE.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO2, Method 6 of 40 CFR, Part 60, Appendix A; for HF, Methods 26 or 26A of 40 CFR, Part 60, Appendix A; and for PE, Methods 1 - 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while this emissions unit and emissions unit P011 are operating at their maximum capacities to generate SO2, HF and PE, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
6.54 pounds PE/hour and 28.65 tons PE/year

 Applicable Compliance Method:
 Compliance with the hourly allowable PE limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-1 emission factor of 0.37 pound of PE per ton of brick by the maximum hourly production rate of 17.66 TPH of fired brick. Compliance shall also be based upon the results of emission testing conducted in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

 Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
 - b. Emission Limitation:
182.6 pounds SO2/hour

Applicable Compliance Method:
Compliance with the hourly allowable SO2 emission limitation shall be based on the record keeping and reporting requirements specified in Section A.III.1 of the terms and conditions of this permit. Compliance with the hourly allowable SO2 emission limitation shall also be based on the results of emission testing

conducted in accordance with Method 6 of 40 CFR, Part 60, Appendix A.

- c. Emission Limitations:
0.43 pound VOC/hour and 1.88 tons VOC/year
- Applicable Compliance Method:
Compliance with the hourly allowable VOC emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-5 emission factor of 0.024 pound of VOC per ton of brick by the maximum hourly production rate of 17.66 TPH of fired brick.
- Compliance with the annual allowable VOC emission limitation shall be assumed as long as compliance with the hourly allowable VOC emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
- If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above pursuant to Methods 18, 25, or 25A, as appropriate, of 40 CFR, Part 60, Appendix A.
- d. Emission Limitations:
6.18 pounds NOx/hour and 27.07 tons NOx/year
- Applicable Compliance Method:
Compliance with the hourly allowable NOx emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 0.35 pound of NOx per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick.
- Compliance with the annual allowable NOx emission limitation shall be assumed as long as compliance with the hourly allowable NOx emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
- If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation above pursuant to Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A.
- e. Emission Limitations:
21.20 pounds CO/hour and 92.86 tons CO/year
- Applicable Compliance Method:
Compliance with the hourly allowable CO emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-3 emission factor of 1.20 pound of CO per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick.
- Compliance with the annual allowable CO emission limitation shall be assumed as long as compliance with the hourly allowable CO emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
- If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation above pursuant to Methods 1 through 4 and 10 of 40 CFR, Part 60, Appendix A.
- f. Emission Limitations:
5.68 pounds HF/hour and 24.88 tons HF/year
- Applicable Compliance Method:
Compliance with the hourly allowable HF emission limitation above shall be based on the results of emission testing conducted in accordance with Methods 26 or 26A of 40 CFR, Part 60, Appendix A.
- Compliance with the annual allowable HF emission limitation shall be assumed as long as compliance with the hourly allowable HF emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
- g. Emission Limitations:
3.0 pounds HCl/hour and 13.15 tons HCl/year
- Applicable Compliance Method:
Compliance with the hourly allowable HCl emission limitation may be determined by multiplying the AP-42, 5th Edition, Table 11.3-4 emission factor of 0.17 pound of HCl per ton of brick multiplied by the maximum hourly production rate of 17.66 TPH of fired brick.
- Compliance with the annual allowable HCl emission limitation shall be assumed as long as compliance with the hourly allowable HCl emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).
- If required, the permittee shall demonstrate compliance with the hourly allowable HCl emission limitation above pursuant to Methods 26 or 26A of 40 CFR, Part 60, Appendix A.
- h. Emission Limitation:
230.0 per tons SO2 per rolling, 12-month period
- Applicable Compliance Method:
Compliance with the limitation above shall be based on the record keeping requirements specified in Section A.III.1 of the terms and conditions of this permit.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P008 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
47.6 mmBtu/hr, natural gas, direct fired tunnel kiln	None	None

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for this emissions unit (P008) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):
 Pollutant: sulfur dioxide

 Maximum Hourly Emission Rate: 182.60 lbs/hr

 Modelled 24-Hour Concentration: 43.99 ug/m3

 24-Hour Incremental Impact: 45.5 ug/m3
 Pollutant: sulfur dioxide

 Maximum Hourly Emission Rate: 182.60 ug/m3

 Modelled 3-Hour Concentration: 166.80 ug/m3

 Acceptable Incremental Impact: 256.0 ug/m3
 Pollutant: sulfur dioxide

 Long Term Average Emission Rate: 53.77 lbs/hr*

 Modelled Annual Concentration: 1.87 ug/m3

Acceptable Incremental Impact: 10 ug/m3

*The 53.77 lb/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO2 emissions. Higher emission rates were modeled for the shorter averaging times.

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted 1-Hour Maximum Ground-Level
Concentration: 10.29 ug/m3

MAGLC: 25 ug/m3
Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Maximum Ground-Level
Concentration: 0.44 ug/m3

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m3

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.
3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P011 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Shapes natural gas, direct-fired, batch brick kiln	OAC rule 3745-31-05 (A) (PTI #03-13047)	8.42 lbs sulfur dioxide (SO ₂)/hr
	OAC rule 3745-17-07(A)	1.94 lbs hydrogen fluoride (HF)/hr, 8.50 TPY HF
	OAC rule 3745-17-11(B)	none (See A.I.2.a.)
	OAC rule 3745-31-05 (D) (PTI #03-13047)	none (See A.I.2.b.)
	OAC rule 3745-18-06	3.08 tons SO ₂ per year, based upon a rolling, 12-month summation of the monthly SO ₂ emissions (See A.I.2.c.) See A.I.2.d.

2. Additional Terms and Conditions

- a. This emissions unit is exempt from the visible emissions 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.
- 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)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table I does not apply because the facility is located in Marion County.
- c. The monthly SO₂ emissions from this emissions unit are directly related to the monthly process weight rates of raw materials and the sulfur content of raw materials processed. Therefore, limiting SO₂ emissions from the kiln effectively restricts kiln production. (The monthly SO₂ emission rates shall be calculated as described in section A.III.1 of this permit.)
- d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.

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II. Operational Restrictions

1. The permittee shall only burn natural gas in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The process weight rate of each brick body raw material employed.
 - b. The weight fraction of sulfur in each brick body raw material processed.
 - c. The SO₂ emissions from the raw materials, in tons, calculated as follows:
 - i. for each brick body raw material where stack testing emission data is not available:

$$S1 \text{ (tons/month)} = \text{weight fraction of sulfur in each raw material} \times 1.998 \text{ (conversion factor)} \times Pr$$

where:

Pr = the monthly process weight rate (in tons) of each raw material

S1 = SO2 emissions (in tons per month)

ii. for each brick body raw material where stack testing emission data is available:

S2 = SO2 emission rate (based on emission testing data), in lbs/ton x Pr / 2000

where:

Pr = the monthly process weight rate (in tons) of raw material

S2 = SO2 emissions (in tons per month);

iii. for all brick body raw materials:

S3 = [summation of S1i] for i = 1, 2,...n + [summation of S2j] for j = 1, 2, ...m

where:

i = a brick body raw material for which stack testing emission data is not available

j = a brick body raw material for which stack testing emission data is available

S1i = the SO2 emission rate (tons/month) for raw material i

S2j = the SO2 emission rate (tons/month) for raw material j

S3 = total monthly SO2 emissions, in tons

- d. the rolling, 12-month summation of the monthly SO2 emissions, in tons.
 - e. The number of hours the emissions unit was in operation.
 - f. The average hourly SO2 emissions [S3 (from Section 1.c.iii) x 2000/1.e], in pounds (average).
2. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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IV. 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.
2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month SO2 emission limitation of 3.08 tons; and
 - b. all exceedances of the hourly SO2 emission limitation of 8.42 lbs.
3. These reports as denoted in term A.IV.2. are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit, while both this emissions unit and emissions unit P008 are running simultaneously, in accordance with the following requirements:
 - a. The emission testing shall be conducted 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emissions rates for SO2, HF and PE (to confirm that the uncontrolled mass rate of particulate emissions is less than 10 lbs/hr) at maximum capacity.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for SO2, Method 6 of 40 CFR, Part 60, Appendix A; for HF, Methods 26 or 26A of 40 CFR, Part 60, Appendix A; and for PE, Methods 1 - 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while this emissions unit and this emissions unit P008 are operating at their maximum capacities to generate SO₂, HF and PE, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

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

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

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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

- 2. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation: 8.42 pounds SO₂/hour

Applicable Compliance Method:

Compliance with the hourly allowable SO₂ emission limitation shall be based on the record keeping and reporting requirements specified in Section A.III.1 of the terms and conditions of this permit. Compliance shall also be based on the results of emission testing conducted in accordance with Method 6 of 40 CFR, Part 60, Appendix A.

- b. Emission Limitations: 1.94 pounds HF/hour and 8.50 tons HF/year

Applicable Compliance Method:

Compliance with the hourly allowable HF emission limitation above shall be based on the results of emission testing conducted in accordance with Methods 26 or 26A of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable HF emission limitation shall be assumed as long as compliance with the hourly allowable HF emission limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760, and then dividing by 2000).

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P011 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Shapes natural gas, direct-fired, batch brick kiln	None	None

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. The permit to install for this emissions unit (P011) was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 lbs/hr

Modelled 24-Hour Concentration: 43.99 ug/m3

24-Hour Incremental Impact: 45.5 ug/m3

Pollutant: sulfur dioxide

Maximum Hourly Emission Rate: 182.60 lbs/hr

Modelled 3-Hour Concentration: 166.80 ug/m3

Acceptable Incremental Impact: 256.0 ug/m3

Pollutant: sulfur dioxide

Long Term Average Emission Rate: 53.77 lbs/hr*

Modelled Annual Concentration: 1.87 ug/m3

Acceptable Incremental Impact: 10 ug/m3

*The 53.77 lb/hr emission rate is a long term average, suitable for modeling annual impacts. This is acceptable for sources with highly variable SO2 emissions. Higher emission rates were modeled for the shorter averaging times.

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 10.29 ug/m3

MAGLC: 25 ug/m3

Pollutant: hydrogen fluoride

TLV: 2.5 ug/m3

Maximum Hourly Emission Rate: 7.62 lbs/hr

Predicted Monthly Maximum Ground-Level Concentration: 0.44 ug/m3

Acceptable Incremental Impact (as 30-day average): 0.50 ug/m3

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

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

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

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

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

- 3. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: P901 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
raw material processing (feed hopper, primary crusher, storage bins, grinding equipment, (2) screens and associated conveying systems), with/ baghouse	OAC rule 3745-31-05 (PTI #03-13047)	2.25 lbs of particulate emissions (PE)/hr, 9.86 TPY PE (from the exhaust stack of the baghouse that serves the primary crusher, storage bins, hammer mills, screens and conveying systems)
		0.44 TPY fugitive PE
		See A.I.2.a and b.
	OAC rule 3745-17-07(A)	none (See A.I.2.c.)

OAC rule 3745-17-11(B) 40 CFR Part 60, Subpart OOO	none (See A.I.2.c.) 0.05 gram of PE per dry standard cubic meter (from the exhaust stack of the baghouse that serves the primary crusher, storage bins, hammer mills, screens and conveying systems) no visible fugitive emissions from any building opening not greater than 7% opacity from the baghouse exhaust stack
OAC rule 3745-17-08(B)	See A.I.2.d.
OAC rule 3745-17-07(B)	See A.I.2.e.

2. Additional Terms and Conditions

- a. Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity, as a 3-minute average.
- b. The permittee shall use a baghouse and an enclosed building to control all of the PE from the primary crusher, storage bins, hammer mills, screens and conveying systems that are associated with this emissions unit.
- 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).
- d. This emissions unit is exempt from the visible particulate emission 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 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).

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions units are in operation.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive dust emissions from any opening in the building in which this emissions unit is located. 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. the cause of the visible emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive dust emissions were observed from any opening in the building in which this emissions unit is located and (b) describe any corrective actions taken to eliminate the visible fugitive dust 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.

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V. **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 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions and the opacity VE limitations for the baghouse exhaust stack and the feed hopper.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):
 - i. for PE : Methods 1 - 5, 40 CFR, Part 60, Appendix A; and
 - ii. for the VE limitations from the baghouse exhaust stack and feed hopper : Method 9, 40 CFR, Part 60, Appendix A.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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

A comprehensive written report on the results of the emissions test(s) shall be signed by the person.
3. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
2.25 pounds of PE/hour and 9.86 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:
Compliance with the hourly allowable PE limitation shall be based upon the results of emission testing conducted in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton fugitive PE/year

Applicable Compliance Method:
Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.
 - c. Emission Limitation:
Visible emissions of fugitive dust from the feed hopper shall not exceed 20% opacity, as a 3-minute average.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the visible emissions limitation above pursuant to Method 9 of 40 CFR, Part 60, Appendix A.
 - d. Emission Limitation:
0.05 gram of PE/dscm

Applicable Compliance Method:
Compliance with the gram PE/dscm limitation above shall be based upon the results of emission testing conducted in accordance with Methods 1 - 5 of 40 CFR, Part 60, Appendix A.
 - e. Emission Limitation:
7% opacity (from the baghouse exhaust stack)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the visible emissions limitation above pursuant to Method 9 of 40 CFR, Part 60, Appendix A.

- f. Emission Limitation:
no visible fugitive emissions (from any building opening)
- Applicable Compliance
If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P901 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0351000051 Emissions Unit ID: P902 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
4 sand storage bins, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the exhaust stack of the baghouse) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. **Additional Terms and Conditions**

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions limitation 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. 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 I does not apply because the facility is located in Marion County.
- d. This 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).
- e. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

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II. **Operational Restrictions**

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

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III. **Monitoring and/or Record Keeping Requirements**

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

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IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:
Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.
 - c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P902 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P903 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
mold line sand system (2 DeBoer mixers and DeBoer molded brick machine), with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	3.92 lbs of particulate emissions (PE)/hr, 17.18 TPY of PE (from the exhaust stack of the baghouse serving the Deboer mixers and the DeBoer molded brick machine) 0.44 TPY of fugitive PE no visible fugitive emissions from any building

opening

See A.I.2.a.

OAC rule 3745-17-07(A)

none (See A.I.2.b.)

OAC rule 3745-17-11(B)

none (See A.I.2.c.)

OAC rule 3745-17-08(B)

none (See A.I.2.d.)

OAC rule 3745-17-07(B)

none (See A.I.2.e.)

2. Additional Terms and Conditions

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from the DeBoer mixers and from the DeBoer molded brick machine that are associated with this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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 as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
3.92 pounds of PE/hour and 17.18 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:

Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

- c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P903 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P904 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
extrusion line sand system (pugmill, vacuum chamber, extruder, vibratory sand feeders, sand blaster and slurry tanks), with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	3.92 lbs of particulate emissions (PE)/hr, 17.18 TPY of PE (from the exhaust stack of the baghouse serving the pugmill, vacuum chamber, extruder, vibratory sand feeders and blaster and slurry tanks)
		0.44 TPY of fugitive PE
		no visible fugitive emissions from any building opening
		See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. **Additional Terms and Conditions**

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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 as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-08(B).

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II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
3.92 pounds of PE/hour and 17.18 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:
Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.
 - c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P904 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P905 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
setting machine, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	2.96 lbs of particulate emissions (PE)/hr, 12.96 TPY of PE (from the baghouse exhaust stack) 0.44 TPY of fugitive PE no visible fugitive emissions from any building opening See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

- a. The permittee shall control all the PE through the use of a baghouse and an enclosed building.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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 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).

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II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
- 2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
2.96 pounds of PE/hour and 12.96 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).

- b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:
 Compliance with the annual allowable PE limitation of 0.44 ton of fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

- c. Emission Limitation:
 no visible fugitive emissions from any building opening

Applicable Compliance Method:
 If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P905 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P906 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
mixing and blending Agemac 046 mixer, (2) surge bins, (4) additive feeders and associated conveyors, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.80 lbs of particulate emissions (PE)/hr, 7.88 TPY of PE (from the exhaust stack of the baghouse serving the Agemac 046 mixer, surge bins, additive feeders and associated conveyors)
		0.44 TPY of fugitive PE
		no visible fugitive emissions from any building opening
		See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. **Additional Terms and Conditions**

- a. The permittee shall use a baghouse and an enclosed building to control all of the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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 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).

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II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
1.80 pounds of PE/hour and 7.88 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:
Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.
 - c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P906 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P907 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sand mixer #1, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the baghouse exhaust stack)
		0.44 TPY of fugitive PE
		no visible fugitive emissions from any building opening
		See A.I.2.a.
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. **Additional Terms and Conditions**

- a. The permittee shall use a baghouse and an enclosed building to control all the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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)(1)(e).
- e. This 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).

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II. **Operational Restrictions**

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

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III. **Monitoring and/or Record Keeping Requirements**

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

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. **Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:

1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).

b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:

Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.

c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0351000051 Emissions Unit ID: P907 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0351000051 Emissions Unit ID: P908 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
sand mixer #2, with baghouse	OAC rule 3745-31-05 (PTI #03-13047)	1.96 lbs of particulate emissions (PE)/hr, 8.59 TPY of PE (from the baghouse exhaust stack)
		0.44 TPY of fugitive PE
		no visible fugitive emissions from any building opening
		See A.I.2.a.
		none (See A.I.2.b.)
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)
	OAC rule 3745-17-11(B)	none (See A.I.2.c.)
	OAC rule 3745-17-08(B)	none (See A.I.2.d.)
	OAC rule 3745-17-07(B)	none (See A.I.2.e.)

2. Additional Terms and Conditions

- a. The permittee shall use a baghouse and an enclosed building to control all the PE from this emissions unit.
- b. This emissions unit is exempt from the visible emissions 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. 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 I does not apply because the facility is located in Marion County.
- 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 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).

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify each day during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. These reports are due by the dates specified in Part I - General Terms and Conditions of this permit under section (A)(1).

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations:
1.96 pounds of PE/hour and 8.59 tons of PE/year (from the baghouse exhaust stack)

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation above pursuant to Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

Compliance with the annual allowable PE limitation shall be assumed as long as compliance with the hourly allowable PE limitation is maintained (the annual emission limitation was calculated by multiplying the hourly emission limitation by 8760 and dividing by 2000).
 - b. Emission Limitation: 0.44 ton of fugitive PE/year

Applicable Compliance Method:
Compliance with the annual allowable PE limitation of 0.44 ton fugitive PE/year shall be assumed as long as compliance with the opacity limitation from the building where this emissions unit is located is maintained.
 - c. Emission Limitation:
no visible fugitive emissions from any building opening

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with the no visible emissions limitation above pursuant to Method 22 of 40 CFR, Part 60, Appendix A.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0351000051 Emissions Unit ID: P908 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None