

Facility ID: 1431403168 Issuance type: Final State Permit To Operate

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 II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit P001](#)
- [Go to Part II for Emissions Unit P002](#)
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Facility ID: 1431403168 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P001 - Eirich Mixer 1	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 0.19 pound per hour and 0.84 ton per year.
		Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.024 pound per hour and 0.11 ton per year.
		See term A.2.c and term A.2.e.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).
	OAC rule 3745-17-07(A)(1)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	See term A.2.b.
	OAC rule 3745-17-08(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.
  - Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.
  - Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.
  - The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.
  - The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.

**B. Operational Restrictions**

1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.
- D. Reporting Requirements**
1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
  2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
- E. Testing Requirements**
1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitations:  
  
Particulate emissions (PE) shall not exceed 0.19 pound per hour and 0.84 ton per year.  
  
Applicable Compliance Method:  
Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.  
  
$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$
Where,  
  
A =maximum hourly amount of refractory material produced, in tons/hr.  
B =PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).  
C =Control efficiency as a decimal percentage; here = 0.997.  
  
If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.  
  
Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:  
  
Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.024 pound per hour and 0.11 ton per year.  
  
Applicable Compliance Method:  
Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations:  
  
$$\text{lb PE/hr} = (A) \times (B)$$
Where,  
  
A = maximum hourly amount of raw material processed, in tons/hr.  
B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997).  
  
If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.  
  
Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:  
  
Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.  
  
Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.  
  
Applicable Compliance Method:  
  
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.
  2. Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.
- F. Miscellaneous Requirements**
1. None

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Facility ID: 1431403168 Emissions Unit ID: P002 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P002 - Smith Mixer	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.  Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.
		See term A.2.c and term A.2.e.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See term A.2.b. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.  
Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.  
Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.  
The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.  
The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.

**B. Operational Restrictions**

1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

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

Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$

Where,

A = maximum hourly amount of refractory material produced, in tons/hr.

B = PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).

C = Control efficiency as a decimal percentage; here = 0.997.

If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.

Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.

Emission Limitations:

Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B)$$

Where,

A = maximum hourly amount of raw material processed, in tons/hr.

B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997).

If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.

Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.

Emission Limitations:

Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

2. Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1431403168 Emissions Unit ID: P003 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P003 - Burton Mixer 1	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.  Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.  See term A.2.c and term A.2.e.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See term A.2.b. The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.  
Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.  
Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.  
The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.  
The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.

**B. Operational Restrictions**

1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

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

Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$

Where,

A = maximum hourly amount of refractory material produced, in tons/hr.

B = PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).

C = Control efficiency as a decimal percentage; here = 0.997.

If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.

Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:

Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$lb\ PE/hr = (A) \times (B)$$

Where,

A = maximum hourly amount of raw material processed, in tons/hr.

B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997).

If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.

Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:

Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1431403168 Emissions Unit ID: P005 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P005 - Burton Mixer 2	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.  Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.

See term A.2.c and term A.2.e.

OAC rule 3745-17-07(A)(1)

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).

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

OAC rule 3745-17-07(B)(1)

See term A.2.b.

OAC rule 3745-17-08(B)

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

OAC rule 3745-17-11

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

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.  
 Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.  
 Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.  
 The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.  
 The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.

**B. Operational Restrictions**

- 1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

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

- 1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.

**D. Reporting Requirements**

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
- 2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

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

Particulate emissions (PE) shall not exceed 0.13 pound per hour and 0.56 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$

Where,

A = maximum hourly amount of refractory material produced, in tons/hr.

B = PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).

C = Control efficiency as a decimal percentage; here = 0.997.

If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.

Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.

Emission Limitations:

Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.016 pound per hour and 0.07 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B)$$

Where,

A = maximum hourly amount of raw material processed, in tons/hr.

B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997).

If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.

Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:

Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

- 2. Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 1431403168 Emissions Unit ID: P006 Issuance type: Final State Permit To Operate

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**Part II - Special Terms and Conditions**

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- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P006 - Eirich Mixer 2	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 0.19 pound per hour and 0.84 ton per year.  Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.024 pound per hour and 0.11 ton per year.  See term A.2.c and term A.2.e.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	See term A.2.b.
	OAC rule 3745-17-08(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

- 2. **Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.  
Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.  
Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.  
The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.  
The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.
- B. Operational Restrictions**
1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.
- D. Reporting Requirements**
1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
- E. Testing Requirements**
1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitations:  
Particulate emissions (PE) shall not exceed 0.19 pound per hour and 0.84 ton per year.  
Applicable Compliance Method:  
Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.  
$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$
Where,  
A = maximum hourly amount of refractory material produced, in tons/hr.  
B = PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).  
C = Control efficiency as a decimal percentage; here = 0.997.  
If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.  
Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emission Limitations:  
Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.024 pound per hour and 0.11 ton per year.  
Applicable Compliance Method:  
Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.  
$$\text{lb PE/hr} = (A) \times (B)$$
Where,  
A = maximum hourly amount of raw material processed, in tons/hr.  
B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997)  
If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.  
Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.  
Emissions Limitations:  
Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.  
Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.  
Applicable Compliance Method:  
Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods"

in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

2. Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1431403168 Emissions Unit ID: P007 Issuance type: Final State Permit To Operate**

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**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. 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>
P007 - Bulk Batching System	OAC rule 3745-31-05(A)(3) (PTI 14-05822)	Particulate emissions (PE) shall not exceed 38 pound per hour and 1.68 tons per year.
		Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.048 pound per hour and 0.21 ton per year.
		See term A.2.c and term A.2.e.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1).
	OAC rule 3745-17-07(A)(1)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)(1)	See term A.2.b.
	OAC rule 3745-17-08(B)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and the use of a fabric filter.  
Visible fugitive particulate emissions shall not exceed 20 percent opacity, as a three-minute average.  
Visible particulate emissions from the stacks associated with this emissions unit shall not exceed 10 percent opacity, as a six-minute average.  
The hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.  
The permittee shall minimize or eliminate visible particulate emissions of fugitive dust by minimizing drop heights, and the use of local capture hoods vented to the fabric filter.

**B. Operational Restrictions**

1. The pressure drop across the screening dust collector shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

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

1. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter on a weekly basis.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across fabric filter did not comply with the allowable range specified in term B.1.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

**E. Testing Requirements**

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

Particulate emissions (PE) shall not exceed 38 pound per hour and 1.68 tons per year.

Applicable Compliance Method:

Hourly emissions of particulate emissions (PE) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B) \times (1-C)$$

Where,

A = maximum hourly amount of refractory material produced, in tons/hr.

B = PE emission factor of 8.5 pounds per ton of raw material processed, from AP-42, Table 11.3-1(August 1997).

C = Control efficiency as a decimal percentage; here = 0.997.

If testing is required to determine compliance with the with the hourly particulate emissions limitation, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR, Part 60, Appendix A.

Annual emissions of particulate emissions (PE) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.

Emission Limitations:

Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 0.048 pound per hour and 0.21 ton per year.

Applicable Compliance Method:

Hourly emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the following equations.

$$\text{lb PE/hr} = (A) \times (B)$$

Where,

A = maximum hourly amount of raw material processed, in tons/hr.

B = PM10 emissions factor of 0.0032 pound of controlled PM10 per ton raw material processed, from AP-42, Table 11.3-1(August 1997).

If testing is required to determine compliance with the with the hourly particulate emission limitation, then testing shall be conducted using the following method: Methods 1-4 of 40 CFR, Part 60, Appendix A, and Method 201 of 40 CFR 51, Appendix M.

Annual emissions of particulate matter less than or equal to 10 microns in diameter (PM10) shall be calculated and compliance determined using the equation above multiplied by 8760 hr/year and divided by 2000 lbs/ton.

Emission Limitations:

Visible particulate emissions from the fabric filter stack outlet shall not exceed ten percent (10%) opacity, as a six minute average.

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a three minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

2. Compliance with the pressure drop limitation in term and condition B.1 shall be demonstrated with the record keeping required in term and condition C.1.

**F. Miscellaneous Requirements**

1. None