

Facility ID: 1677110000 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 P031](#)
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Facility ID: 1677110000 Emissions Unit ID: P031 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>
Small rotary kiln	OAC rule 3745-31-05 (PTI 16-1701)	1.3 lbs/hr of carbon monoxide (CO)
		0.2 lb/hr of nitrogen oxides (NOx)
		0.01 lb/hr of volatile organic compounds (VOC)
	OAC rule 3745-17-07(A)	0.1 lb/hr of particulate matter (PM)
		20% opacity as a 6-minute average, except as provided by rule
		See A.2.a below.
OAC rule 3745-17-11	See A.2.a below.	
OAC rule 3745-21-07(G)	See A.2.b below.	
OAC rule 3745-21-08		

2. **Additional Terms and Conditions**
  - (a) The emissions limit based on this applicable rule is less stringent than the emissions limit established pursuant to OAC rule 3745-31-05. The permittee shall minimize carbon monoxide emissions by use of the best available control techniques and operating practices in accordance with best current technology.

**B. Operational Restrictions**

1. None

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

1. None

**D. Reporting Requirements**

1. None

**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 Limitation:  
1.3 lbs/hr of CO

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:

0.2 lb/hr of NOx

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:

0.01 lb/hr of VOC

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:

0.1 lb/hr of PM

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in OAC rule 3745-17-03(B)(10).  
Emission Limitation:

20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1677110000 Emissions Unit ID: P032 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>
Large rotary kiln	OAC rule 3745-31-05 (PTI 16-1701)	2.6 lbs/hr of carbon monoxide (CO) 0.2 lb/hr of nitrogen oxides (NOx) 0.2 lb/hr of volatile organic compounds (VOC) 0.3 lb/hr of ammonia (NH3) 0.3 lb/hr of particulate matter (PM) 2.7 lbs/hr of sulfur dioxide (SO2)

0.1 lb/hr of hydrogen fluoride (HF)

OAC rule 3745-17-07(A) 20% opacity as a 6-minute average, except as provided by rule

OAC rule 3745-17-11 See A.2.a below.

OAC rule 3745-21-07(G) See A.2.a below.

OAC rule 3745-21-08 See A.2.b below.

**2. Additional Terms and Conditions**

- (a) The emissions limit based on this applicable rule is less stringent than the emissions limit established pursuant to OAC rule 3745-31-05. The permittee shall minimize carbon monoxide emissions by use of the best available control techniques and operating practices in accordance with best current technology.

**B. Operational Restrictions**

- 1. None

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

- 1. None

**D. Reporting Requirements**

- 1. None

**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 Limitation:

2.6 lbs/hr of CO

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.

Emission Limitation:

0.2 lb/hr of NOx

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.

Emission Limitation:

0.2 lb/hr of VOC

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.

Emission Limitation:

0.3 lb/hr of NH3

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the approved USEPA procedures and test method(s).

Emission Limitation:

0.3 lb/hr of PM

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in OAC rule 3745-17-03(B)(10).

Emission Limitation:

2.7 lbs/hr of SO2

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.

Emission Limitation:

0.1 lb/hr of HF

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:

20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 1677110000 Emissions Unit ID: P033 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>
New rotary kiln	OAC rule 3745-31-05 (PTI 16-1701)	3.9 lbs/hr of carbon monoxide (CO)
		0.4 lb/hr of nitrogen oxides (NOx)
		0.3 lb/hr of volatile organic compounds (VOC)
		0.4 lb/hr of ammonia (NH3)
		0.5 lb/hr of particulate matter (PM)
		2.7 lbs/hr of sulfur dioxide (SO2)
		0.1 lb/hr of hydrogen fluoride (HF)
		20% opacity as a 6-minute average, except as provided by rule
OAC rule 3745-17-07(A)	See A.2.a below.	
OAC rule 3745-17-11	See A.2.a below.	
OAC rule 3745-21-07(G)	See A.2.b below.	
OAC rule 3745-21-08		

**2. Additional Terms and Conditions**

- (a) The emissions limit based on this applicable rule is less stringent than the emissions limit established pursuant to OAC rule 3745-31-05. The permittee shall minimize carbon monoxide emissions by use of the best available control techniques and operating practices in accordance with best current technology.

**B. Operational Restrictions**

- 1. None

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

- 1. None

**D. Reporting Requirements**

1. None

**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 Limitation:  
  
3.9 lbs/hr of CO  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the applicable procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.4 lb/hr of NOx  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the applicable procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.3 lb/hr of VOC  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.4 lb/hr of NH3  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the approved USEPA procedures and test method(s).  
Emission Limitation:  
  
0.5 lb/hr of PM  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the applicable procedures and test method(s) in OAC rule 3745-17-03(B)(10).  
Emission Limitation:  
  
2.7 lbs/hr of SO2  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
0.1 lb/hr of HF  
  
Applicable Compliance Method:  
  
Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in 40 CFR Part 60, Appendix A.  
Emission Limitation:  
  
20% opacity as a 6-minute average, except as provided by rule  
  
Applicable Compliance Method:  
  
OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677110000 Emissions Unit ID: P038 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>
Pilot plant mixing, extruding, & screening	OAC rule 3745-31-05 (PTI 16-1701)	0.74 lb/hr of particulate matter (PM)
	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11	See A.2.a below.
	OAC rule 3745-21-07(G)	See B.1 below.

**2. Additional Terms and Conditions**

- (a) The emissions limit based on this applicable rule is less stringent than the emissions limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The permittee shall not employ any photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit.

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

1. The permittee shall maintain the following information for this emissions unit:
  - a. the MSDS sheets for each liquid organic material employed; and
  - b. documentation as to whether or not each material is a photochemically reactive material.

**D. Reporting Requirements**

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing if a "photochemically reactive material" (as defined in OAC rule 3745-21-01(C)(5)) is employed in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after such an occurrence.

**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 Limitation:

0.74 lb/hr of PM

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in OAC rule 3745-17-03(B)(10).

Emission Limitation:

20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. None

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Facility ID: 1677110000 Emissions Unit ID: P039 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>
Accurate feeders	OAC rule 3745-31-05 (PTI 16-1701)	0.74 lb/hr of particulate matter (PM)
	OAC rule 3745-17-07(A)	20% opacity as a 6-minute average, except as provided by rule
	OAC rule 3745-17-11	See A.2.a below.

**2. Additional Terms and Conditions**

- (a) The emissions limit based on this applicable rule is less stringent than the emissions limit established pursuant to OAC rule 3745-31-05.

**B. Operational Restrictions**

1. None

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

1. None

**D. Reporting Requirements**

1. None

**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 Limitation:

0.74 lb/hr of PM

Applicable Compliance Method:

Stack testing may be required in the future in accordance with the appropriate procedures and test method(s) in OAC rule 3745-17-03(B)(10).

Emission Limitation:

20% opacity as a 6-minute average, except as provided by rule

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)

**F. Miscellaneous Requirements**

1. None