

Facility ID: 1431073383 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.

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Facility ID: 1431073383 Emissions Unit ID: F008 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>
F008 - 5,000 Pound Dry Hearth Furnace (Permanent Mold Area)	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	Nitrogen oxide (NOx) emissions from the furnace shall not exceed 0.44 pound per hour and 1.93 tons per year. Carbon monoxide (CO) emissions from the furnace shall not exceed 0.37 pound per hour and 1.62 tons per year. Particulate emissions (PE/PM10) emissions from the furnace shall not exceed 0.0084 pound per hour and 0.037 ton per year. Sulfur dioxide (SO2) emissions from the furnace shall not exceed 0.0026 pound per hour and 0.011 ton per year. Organic compound (OC) emissions from the furnace shall not exceed 0.048 pound per hour and 0.21 ton per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B). See term A.2.a. See term A.2.b.
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	

2. **Additional Terms and Conditions**
 - (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule. The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust. The hourly and annual emission limitations outlined above are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations and emission limitations.

B. Operational Restrictions

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

C. 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.
- D. 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.
- E. Testing Requirements**
1. Compliance with the emissions limitations in section A.1 shall be determined in accordance with the following methods:
 - a. Emissions Limitations:
 Nitrogen oxide (NOx) emissions from the furnace shall not exceed 0.44 pound per hour.
 Carbon monoxide (CO) emissions from the furnace shall not exceed 0.37 pound per hour.
 Particulate emissions (PE/PM10) emissions from the furnace shall not exceed 0.0084 pound per hour.
 Sulfur dioxide (SO2) emissions from the furnace shall not exceed 0.0026 pound per hour.
 Organic compound (OC) emissions from the furnace shall not exceed 0.048 pound per hour.

 Applicable Compliance Method:
 Compliance with the short term emission limitations shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (4,400 cu. ft/hr) by the appropriate emission factor as specified in AP-42 Fifth Edition, Tables 1.4-1 and 1.4-2, 7/98.
 - b. Emission Limitation:
 Nitrogen oxide (NOx) emissions from the furnace shall not exceed 1.93 TPY.
 Carbon monoxide (CO) emissions from the furnace shall not exceed 1.62 TPY.
 Particulate emissions (PE/PM10) emissions from the furnace shall not exceed 0.037 TPY.
 Sulfur dioxide (SO2) emissions from the furnace shall not exceed 0.011 TPY.
 Organic compound (OC) emissions from the furnace shall not exceed 0.21 TPY.

 Applicable Compliance Method:
 The annual emission limitations were developed by multiplying the hourly emission limitations by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.
 - c. Emission Limitation:
 Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

 Applicable Compliance Method:
 Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
 2. Compliance with the usage limitation in term B.1 shall be demonstrated by the record keeping in term C.1.
- F. Miscellaneous Requirements**
1. None

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Facility ID: 1431073383 Emissions Unit ID: F009 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>
F009 - Castings grinding/finishing (Permanent Mold Area)	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	Particulate emissions (PE/PM10) emissions from the castings area shall not exceed 1.49 pounds per hour and 6.53 tons per year.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).

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

See term A.2.a.

OAC rule 3745-17-08(B)

See term A.2.b.

2. **Additional Terms and Conditions**

- (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust.
The hourly and annual emission limitations outlined above are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable regulations and emissions limitations.

B. **Operational Restrictions**

1. None

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

1. For the purpose of determining actual emissions, the permittee shall maintain monthly records of the following information:
- a. The amount of metal castings produced for the calendar month, in tons.
- b. The monthly PE/PM10 emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50) and by dividing by 2,000 lbs/ton.

D. **Reporting Requirements**

1. The permittee shall submit annual reports which specify the total PE/PM10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the emissions limitations in term A.1 shall be determined in accordance with the following methods:
- a. Emission Limitation:
Particulate emissions (PE/PM10) emissions from the castings area shall not exceed 1.49 pounds per hour.
- Applicable Compliance Method:
Compliance with the hourly emission limitations specified in section A.1 shall be demonstrated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50).
- b. Emission Limitation:
Particulate emissions (PE/PM10) emissions from the castings area shall not exceed 6.53 TPY.
- Applicable Compliance Method:
The annual emission limitation was developed by multiplying the hourly emission limitations by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton.
- c. Emission Limitation:
Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
- Applicable Compliance Method:
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

F. **Miscellaneous Requirements**

1. None

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Facility ID: 1431073383 Emissions Unit ID: F010 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>
F010 - Castings cleaning (Sand Area)	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	The particulate emissions (PE/PM10) emissions from the castings cleaning area shall not exceed 1.96 pounds per hour and 8.58 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08(B)	See term A.2.a. See term A.2.b.

2. Additional Terms and Conditions

- (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust.
The hourly and annual emission limitations outlined above are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable rules and emissions limitations.

B. Operational Restrictions

- 1. None

C. Monitoring and/or Record Keeping Requirements

- 1. For the purpose of determining actual emissions, the permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of metal castings produced for the calendar month, in tons.
 - b. The monthly PE/PM10 emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50) and by dividing by 2,000 lbs/ton.

D. Reporting Requirements

- 1. The permittee shall submit annual reports which specify the total PE/PM10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

- 1. Compliance with the emissions limitations in term A.1 shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The particulate emissions (PE/PM10) emissions from the castings cleaning area shall not exceed 1.96 pounds per hour.

Applicable Compliance Method:
Compliance with the hourly emission limitations specified in section A.1. shall be demonstrated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50).
 - b. Emission Limitation:
The particulate emissions (PE/PM10) emissions from the castings cleaning area shall not exceed 8.58 TPY.

Applicable Compliance Method:
The annual emission limitation was developed by multiplying the hourly emission limitations by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton.
 - c. Emission Limitation:
Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

Applicable Compliance Method:
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1431073383 Emissions Unit ID: F011 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>
F011 - Castings grinding/finishing (Sand Area)	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	The particulate emissions (PE/PM10) emissions from the castings area shall not exceed 1.96 pounds per hour and 8.58 tons per year.
	OAC rule 3745-17-07(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).
	OAC rule 3745-17-08(B)	See term A.2.a. See term A.2.b.

2. Additional Terms and Conditions

- (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust.

The hourly and annual emission limitations outlined above are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable rules and emissions limitations.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. For the purpose of determining actual emissions, the permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of metal castings produced for the calendar month, in tons.
 - b. The monthly PE/PM10 emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50) and by dividing by 2,000 lbs/ton.

D. Reporting Requirements

1. The permittee shall submit annual reports which specify the total PE/PM10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emissions limitations in term A.1 shall be determined in accordance with the following methods:
 - a. Emission Limitation:
The particulate emissions (PE/PM10) emissions from the castings area shall not exceed 1.96 pounds per hour.

Applicable Compliance Method:
Compliance with the hourly emission limitations specified in section A.1 shall be demonstrated by multiplying the metal castings production rate above by an emission factor of 8.5 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50).

b. Emission Limitation:

The particulate emissions (PE/PM10) emissions from the castings area shall not exceed 8.58 TPY.

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitations by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton.

c. Emission Limitation:

Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

F. **Miscellaneous Requirements**

1. None

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Facility ID: 1431073383 Emissions Unit ID: F012 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>
F012 - Mold Pouring and Cooling (Sand Area)	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	The particulate emissions (PE/PM10) emissions from the mold pouring and cooling operation shall not exceed 0.50 pound per hour and 2.19 tons per year.
	OAC rule 3745-17-07(B)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).
	OAC rule 3745-17-08(B)	See term A.2.a. See term A.2.b.

2. **Additional Terms and Conditions**

- (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust.

The hourly and annual emission limitations outlined above are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable rules and emissions limitations.

B. **Operational Restrictions**

1. None

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

1. For the purpose of determining actual emissions, the permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The amount of metal castings produced for the calendar month, in tons.
 - b. The monthly PE/PM10 emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 2.1 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for

aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50) and by dividing by 2,000 lbs/ton.

D. Reporting Requirements

1. The permittee shall submit annual reports which identify the PE/PM10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emissions limitations in term A.1 shall be determined in accordance with the following methods:

a. Emission Limitation:

The particulate emissions (PE/PM10) emissions from the mold pouring and cooling operation shall not exceed 0.50 pounds per hour. and 2.19 tons per year.

Applicable Compliance Method:

Compliance with the hourly emission limitations specified in section A.1. shall be demonstrated by multiplying the metal castings production rate above by an emission factor of 2.1 lbs PE-PM10/ton metal (half of E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by a building enclosure efficiency of (1-.50).

b. Emission Limitation:

The particulate emissions (PE/PM10) emissions from the mold pouring and cooling operation shall not exceed 2.19 TPY.

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly emission limitations by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton.

c. Emission Limitation:

Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

F. Miscellaneous Requirements

1. None

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Facility ID: 1431073383 Emissions Unit ID: F013 Issuance type: Final State Permit To Operate

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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>
F013 - Sand Silo	OAC rule 3745-31-05(A)(3) (PTI 14-05145)	The particulate emissions (PE/PM10) emissions for the sand silo shall not exceed 21.0 pounds per hour and 2.52 tons per year. See section B.1. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(B)(1) and 3745-17-08(B).
	OAC rule 3745-17-07(B)(1)	See term A.2.a.
	OAC rule 3745-17-08(B)	See term A.2.b.

2. Additional Terms and Conditions

- (a) Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
The permittee shall take all steps necessary to ensure proper operating procedures, so as to minimize or eliminate visible emissions of fugitive dust.
The hourly emission limitation outlined above is based on the emissions unit's Potential to Emit (PTE). Therefore, no hourly records are required to demonstrate compliance with this limit.
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with all applicable rules, emissions limitations and the limitation established for the amount of sand received.

B. Operational Restrictions

1. The maximum annual amount of sand received for this emissions unit shall not exceed 1,400 tons per year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
- a. The amount of sand received for the calendar month, in tons.
 - b. The monthly PE/PM10 emissions, in tons, calculated by the following methodology:
 - i. Convert from tons sand/month to Mg sand/month by multiplying the tons sand/month rate above by 2,000 lbs/ton and by 453.6 g/lb and by dividing by 1E6 g/Mg.
 - ii. Multiply the resulting amount of sand received calculated in term C.1.b.i. above (in units of Mg sand/month) by an emission factor of 1.8 kg PE-PM10/Mg sand (half of the E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by 2.205 lbs/kg and dividing by 2,000 lbs/ton.

D. Reporting Requirements

1. The permittee shall submit annual reports which specify the total amount of sand received and the total PE/PM10 emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emissions limitations in section A.1 shall be determined in accordance with the following methods:
- a. Emission Limitation:
The particulate emissions (PE/PM10) emissions for the sand silo shall not exceed 21.0 pounds per hour.

Applicable Compliance Method:
Compliance with the hourly emission limitations specified in term A.1. shall be demonstrated by multiplying the amount of sand received (in units of Mg sand/month) by an emission factor of 1.8 kg PE-PM10/Mg sand (half of the E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by 2.205 lbs/kg.
 - b. Emission Limitation:
The particulate emissions (PE/PM10) emissions for the sand silo shall not exceed 2.52 TPY.

Applicable Compliance Method:
The annual emission limitation was developed by multiplying the maximum potential annual rate of sand received (1,270.08 Mg sand/year) by an emission factor of 1.8 kg PE-PM10/Mg sand (half of the E.F. from AP-42 Table 12.10-7 to adjust for aluminum foundry; 1/95) and by 2.205 lbs/kg and then divided by 2000 lbs/ton.
 - c. Emission Limitation:
Fugitive visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.

Applicable Compliance Method:
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).
2. Compliance with the usage limitation in section B.1 shall be demonstrated by the record keeping in section C.1.

F. Miscellaneous Requirements

1. None