

Facility ID: 1409040950 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 F001](#)

[Go to Part II for Emissions Unit F002](#)

[Go to Part II for Emissions Unit F003](#)

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Facility ID: 1409040950 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
F001-Stainless steel slab grinder # 1 controlled by fabric filter and venting inside of building	OAC rule 3745-31-05(A)(3) (PTI 14-05672)	Particulate emissions* (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 pounds per hour and 4.7 tons per year.  * PE = PM10
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). See term and condition A.2.a. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Visible particulate emissions from this emissions unit shall not exceed twenty per cent opacity as a three-minute average.  
Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the mass and visible emission limitations, process throughput limitation and the use of a fabric filter with an overall control efficiency of 95.5 percent.  
The hourly emission limitation outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no hourly records and reports are required to demonstrate compliance with this limitation.

**B. Operational Restrictions**

1. The permittee shall not process more than 5000 steel slabs per year in this emissions unit.

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

1. The permittee shall maintain monthly records of the number of steel slabs processed in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit an annual report to the Hamilton County Department of Environmental Services which identifies the total number of steel slabs processed in this emissions unit for the previous calendar year. This report shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Emission Limitation:  
  
Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 lbs/hr.  
  
Applicable Compliance Method:

Compliance shall be demonstrated with the following equation:

$$\text{lbs/hr of PE/PM10} = (A \times B) + (A \times C \times D)$$

where:

- A = facility supplied emission rate of 84 lbs of PE/PM10/hr
- B = 4 percent fugitive PE/PM10
- C = 96 percent captured PE/PM10
- D = fabric filter control efficiency = (1-.995)

$$(84 \text{ lbs of PE/PM10/hr} \times 0.04 \text{ lbs of fugitive PE/PM10/lb of PE/PM10}) + [(84 \text{ lbs of PE/PM10/hr} \times 0.96 \text{ lbs of captured PE/PM10/lb of PE/PM10} \times (1-.995))] = 3.8 \text{ lbs of PE/PM10/hr.}$$

2. Emission Limitation:

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 4.7 tons per year (TPY).

Applicable Compliance Method:

The 4.7 TPY limitation was developed by multiplying the maximum annual allowable throughput of steel slabs by the total (fugitive + stack) emission rate of 1.88 lbs of PE-PM10/slab, as provided in Permit to Install application 14-05672 as received on January 18, 2005.

The 1.88 lbs of PE-PM10/slab emission factor was developed by dividing the hourly PE/PM10 emission rate calculated in section E.1 by facility provided data of 2 slabs/hour as maximum process rate.

3. Emission Limitation:

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

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).

4. Compliance with the production limitation in section B.1 shall be demonstrated by the recordkeeping in section C.1.

F. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040950 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
F002-Stainless steel slab grinder # 2 controlled by fabric filter and venting inside of building	OAC rule 3745-31-05(A)(3) (PTI 14-05672)	Particulate emissions* (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 pounds per hour and 4.7 tons per year.

\* PE = PM10

The requirements of this rule also include compliance

OAC rule 3745-17-07(B)(1)  
 OAC rule 3745-17-08

with the requirements of OAC rule 3745-17-07(B)(1).  
 See term and condition A.2.a.  
 The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Visible particulate emissions from this emissions unit shall not exceed twenty per cent opacity as a three-minute average.  
 Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the mass and visible emission limitations, process throughput limitation and the use of a fabric filter with an overall control efficiency of 95.5 percent.  
 The hourly emission limitation outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no hourly records and reports are required to demonstrate compliance with this limitation.

**B. Operational Restrictions**

- 1. The permittee shall not process more than 5000 steel slabs per year in this emissions unit.

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

- 1. The permittee shall maintain monthly records of the number of steel slabs processed in this emissions unit.

**D. Reporting Requirements**

- 1. The permittee shall submit an annual report to the Hamilton County Department of Environmental Services which identifies the total number of steel slabs processed in this emissions unit for the previous calendar year. This report shall be submitted by January 31 of each year.

**E. Testing Requirements**

- 1. Emission Limitation:

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated with the following equation:

$$\text{lbs/hr of PE/PM10} = (A \times B) + (A \times C \times D)$$

where:

- A = facility supplied emission rate of 84 lbs of PE/PM10/hr
- B = 4 percent fugitive PE/PM10
- C = 96 percent captured PE/PM10
- D = fabric filter control efficiency = (1-.995)

$$(84 \text{ lbs of PE/PM10/hr} \times 0.04 \text{ lbs of fugitive PE/PM10/lb of PE/PM10}) + [(84 \text{ lbs of PE/PM10/hr} \times 0.96 \text{ lbs of captured PE/PM10/lb of PE/PM10} \times (1-.995))] = 3.8 \text{ lbs of PE/PM10/hr.}$$

- 2. Emission Limitation:

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 4.7 tons per year (TPY).

Applicable Compliance Method:

The 4.7 TPY limitation was developed by multiplying the maximum annual allowable throughput of steel slabs by the total (fugitive + stack) emission rate of 1.88 lbs of PE-PM10/slab, as provided in Permit to Install application 14-05672 as received on January 18, 2005.

The 1.88 lbs of PE-PM10/slab emission factor was developed by dividing the hourly PE/PM10 emission rate calculated in section E.1 by facility provided data of 2 slabs/hour as maximum process rate.

- 3. Emission Limitation:

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

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).

- 4. Compliance with the production limitation in section B.1 shall be demonstrated by the recordkeeping in section C.1.

**F. Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040950 Emissions Unit ID: F003 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**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>
F003-Stainless steel slab grinder # 3 controlled by fabric filter and venting inside of building	OAC rule 3745-31-05(A)(3) (PTI 14-05672)	Particulate emissions* (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 pounds per hour and 4.7 tons per year.
	OAC rule 3745-17-07(B)(1) OAC rule 3745-17-08	* PE = PM10  The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1). See term and condition A.2.a.  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (a) Visible particulate emissions from this emissions unit shall not exceed twenty per cent opacity as a three-minute average. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the mass and visible emission limitations, process throughput limitation and the use of a fabric filter with an overall control efficiency of 95.5 percent. The hourly emission limitation outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no hourly records and reports are required to demonstrate compliance with this limitation.

**B. Operational Restrictions**

1. The permittee shall not process more than 5000 steel slabs per year in this emissions unit.

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

1. The permittee shall maintain monthly records of the number of steel slabs processed in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit an annual report to the Hamilton County Department of Environmental Services which identifies the total number of steel slabs processed in this emissions unit for the previous calendar year. This report shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Emission Limitation:

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 3.8 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated with the following equation:

$$\text{lbs/hr of PE/PM10} = (A \times B) + (A \times C \times D)$$

where:

- A = facility supplied emission rate of 84 lbs of PE/PM10/hr
- B = 4 percent fugitive PE/PM10
- C = 96 percent captured PE/PM10
- D = fabric filter control efficiency = (1-.995)

$$(84 \text{ lbs of PE/PM10/hr} \times 0.04 \text{ lbs of fugitive PE/PM10/lb of PE/PM10}) + [(84 \text{ lbs of PE/PM10/hr} \times 0.96 \text{ lbs of}$$

captured PE/PM10/lb of PE/PM10 x (1-.995)] = 3.8 lbs of PE/PM10/hr.

2. Emission Limitation:

Particulate emissions (PE) and particulate matter emissions ten microns and less in diameter (PM10) from this emissions unit shall not exceed 4.7 tons per year (TPY).

Applicable Compliance Method:

The 4.7 TPY limitation was developed by multiplying the maximum annual allowable throughput of steel slabs by the total (fugitive + stack) emission rate of 1.88 lbs of PE-PM10/slab, as provided in Permit to Install application 14-05672 as received on January 18, 2005.

The 1.88 lbs of PE-PM10/slab emission factor was developed by dividing the hourly PE/PM10 emission rate calculated in section E.1 by facility provided data of 2 slabs/hour as maximum process rate.

3. Emission Limitation:

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

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).

4. Compliance with the production limitation in section B.1 shall be demonstrated by the recordkeeping in section C.1.

F. **Miscellaneous Requirements**

1. None