

Facility ID: 0829750024 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 P002](#)
- [Go to Part II for Emissions Unit P016](#)
- [Go to Part II for Emissions Unit P021](#)
- [Go to Part II for Emissions Unit P022](#)

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Facility ID: 0829750024 Emissions Unit ID: P002 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>
large sand blast w/baghouse	OAC rule 3745-17-11(B)	The particulate emissions from this emissions unit shall not exceed 19.18 lbs/hr.
	OAC rule 3745-17-07(A)(1)	The visible emissions shall not exceed 20% opacity, as a 6-minute average from the baghouse.

**2. Additional Terms and Conditions**

- (b) The particulate emissions from emissions units P002, P018 (plastic dry mix) and P019 (small sand blast) are controlled through the application of a common baghouse. The 20% opacity visible emissions limitation applies to the common emissions egress point of the baghouse shared by emissions units P002, P018 and P019.

**B. Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

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

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

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted to the Director (RAPCA) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviation occurred during a calendar quarter, the permittee shall submit a report which states that no deviation occurred during the calendar quarter.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in section A.1 of these terms and conditions shall be determined in accordance with the following method(s).  
 Emission Limitation:  
 The particulate emissions from this emissions unit shall not exceed 19.18 lbs/hr.  
  
 Applicable Compliance Methods:  
 Compliance with this mass limitation shall be determined by multiplying the maximum hourly process weight of 10 tons/hr by the emission factor of 0.8 lb/ton (Ohio EPA RACM Table 2.7-1) by the control efficiency of the baghouse 99% (1- .99). If required, compliance with these mass emission limitations shall be based on stack testing per OAC rule 3745-17-03(B)(10).  
 Emission Limitation -  
 The visible emissions shall not exceed 20% opacity, as a 6-minute average from the baghouse.

Applicable Compliance Method -  
 Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

1. None

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**Facility ID: 0829750024 Emissions Unit ID: P016 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>
casting shake-out area	OAC rule 3745-31-05(A)(3) PTI 08-2445	The particulate emissions from this emissions unit shall not exceed 0.21 lb/hr and 0.21 ton/yr.
	OAC rule 3745-17-11(B)	The visible emissions shall not exceed 5% opacity, as a 6-minute average from the baghouse.
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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**
  - (b) The 0.21lb/hr limit was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The pressure drop across the Torit Filter Cartridge System shall be maintained within the range of 0.5 - 4 inches of water while the emissions unit is in operation.
2. The permittee shall not operate this emissions unit more than 2000 hours per year.

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the Torit Filter Cartridge System while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations. The permittee shall record the pressure drop across the Torit Filter Cartridge System on a daily basis.
2. The permittee shall record the hours of operation for this unit on a monthly basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the Torit Filter Cartridge System did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted to the Director (RAPCA) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviation occurred during a calendar quarter, the permittee shall submit a report which states that no deviation occurred during the calendar quarter.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in section A.1 of these terms and conditions shall be determined in

accordance with the following method(s).

Emission limitation-

The particulate emissions from this emissions unit shall not exceed 0.21 lb/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum capacity of the equipment (0.75 tons/hr) times 25.6 lbs particulates/ton (emission factor for aluminium casting shake out) and times the control efficiency of the fabric filter (1 - .989). (This is how the 0.21 lb/hr limitation was developed for the PTI.) If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8).

Emission limitation-

The particulate emissions from this emissions unit shall not exceed 0.21 ton/yr.

Applicable Compliance Method-

This limit shall be determined by multiplying the 0.21 lb/hr emissions limitation times the annual operating hours, and dividing by 2000 lbs/ton.

Emission limitation-

The visible emissions shall not exceed 5% opacity, as a 6-minute average from the baghouse.

Applicable Compliance Method-

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

Compliance shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0829750024 Emissions Unit ID: P021 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>
casting shake-out area with baghouse	OAC rule 3745-31-05(A)(3) PTI 08-4105	The particulate emissions from this emissions unit shall not exceed 0.064 lb/hr and 0.28 ton/yr.
	OAC rule 3745-17-07(A)(1)	The visible emissions shall not exceed 5% opacity, as a 6-minute average from the baghouse.
	OAC rule 3745-17-11(B)	The limit based on this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). The limit based on this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- (b) The hourly emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

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

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

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the

baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations. The permittee shall record the pressure drop across the baghouse on a daily basis.

**D. Reporting Requirements**

1. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These quarterly deviation (excursion) reports shall be submitted to the Director (RAPCA) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviation occurred during a calendar quarter, the permittee shall submit a report which states that no deviation occurred during the calendar quarter.

**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-  
The particulate emissions from this emissions unit shall not exceed 0.064 lb/hr.

Applicable Compliance Method-  
Compliance shall be determined by multiplying the maximum hourly casting rate of 2.0 tons by an emissions factor of 3.2 lb/ton as specified in USEPA reference document AP-42, Table 12.10-7 times the control efficiency of the baghouse 99% (1-.99). If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8).

Emission Limitation-  
The particulate emissions from this emissions unit shall not exceed 0.28 ton/yr.

Compliance Method-  
The 0.28 ton/yr limitation was developed by multiplying the maximum operating schedule of 8760 hrs/yr times the 0.064 lb/hr limitation. Therefore, provided compliance is shown with the hourly limitation, compliance will be shown with the annual limitation.

Emission Limitation-  
The visible emissions shall not exceed 5% opacity, as a 6-minute average from the baghouse.

Applicable Compliance Method-  
Compliance shall be determined by visible emissions using the methods and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

1. None

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Facility ID: 0829750024 Emissions Unit ID: P022 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>
MBC 3670 Aluminum Melting/holding furnace	OAC rule 3745-31-05(A)(3) 08-04353	The particulate emissions from this emissions unit shall not exceed 2.15 lbs/hr and 4.47 tons/yr.
	OAC rule 3745-17-11(B)	The visible emissions shall not exceed 5% opacity, as a 6-minute average from the baghouse.
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). 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**

- (b) The hourly emission limitation was established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. **Operational Restrictions**

1. The maximum annual metal charged rate for this emissions unit shall not exceed 2,080 tons.

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

1. The permittee shall maintain monthly records of the metal charged rate for this emission unit.

D. **Reporting Requirements**

1. The permittee shall submit annual reports that identify any exceedances of the annual metal charged rate limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

E. **Testing Requirements**

1. Compliance with the emissions limitation in this permit for emissions unit shall be determined in accordance with the following method(s):

Emission Limitation-

The particulate emissions from this emissions unit shall not exceed 2.15 lbs/hr

Applicable Compliance Method-

The maximum hourly emission rate for the melting process is determined by multiplying the maximum hourly charge rate of 0.5 ton/hr by an emission factor of 4.3 lb/ton of metal charged as specified in USEPA reference document AP-42, Table 12.8-2 (10/86).

Emission Limitation-

The particulate emissions from this emissions unit shall not exceed 4.47 tons/yr.

Applicable Compliance Method-

The annual emission rate for the melting process is determined by multiplying the 12-monthly metal charge rate records for the calendar year, by the emission factor of 4.3 lbs/ton of metal charged as specified in USEPA reference document AP-42, Table 12.8-2 (10/86).

Emission Limitation-

The visible emissions shall not exceed 5% opacity, as a 6-minute average from the stack.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

F. **Miscellaneous Requirements**

1. None