

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.

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[Go to Part II for Emissions Unit P021](#)

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

Facility ID: 0829750024 Emissions Unit ID: P020 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>
electric induction melting furnace	OAC rule 3745-31-05(A)(3) PTI 08-4090	2.18 lbs/hr and 1.45 tons/yr particulates 5% visible particulate emissions
	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).

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 production rate for this emissions unit shall not exceed 1000 tons.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the production rate for this emissions unit.

D. Reporting Requirements

1. The permittee shall submit annual reports that identify any exceedances of the annual production 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 Methods

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-
2.18 lbs/hr particulates

Applicable Compliance Method-
Compliance shall be determined by summing the maximum hourly emission rates for the melting and pouring process:

 - i. The maximum hourly emission rate for the melting process is determined by multiplying the maximum hourly charge rate of 0.75 ton/hr by an emission factor of 0.1 lb/ton as specified in USEPA reference document AP-42, Table 12.13-2(1/95).
 - ii. The maximum hourly emissions rate for the pouring process is determined by multiplying the maximum hourly pouring rate of 0.75 ton/hr by an emission factor of 2.8 lbs/ton as specified in USEPA reference document AP-42, Table 12.13-2(1/95).

Emission Limitation-
1.45 tons/yr particulates

Applicable Compliance Method-
Compliance shall be determined by summing the annual emission rates for the melting and pouring process:

i. The annual emission rate for the melting process is determined by multiplying the 12-monthly production records for the calendar year, by an emission factor of 0.1 lb/ton as specified in USEPA reference document AP-42, Table 12.13-2(1/95).

ii. The annual emission rate for the pouring process is determined by multiplying the 12-monthly production records for the calendar year by an emission factor of 2.8 lbs/ton as specified in USEPA reference document AP-42, Table 12.13-2(1/95).

Emission Limitation-
5% visible particulate emissions

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: P021 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>
casting shake-out area with baghouse	OAC rule 3745-31-05(A)(3) PTI 08-4105	0.064 lb/hr and 0.28 ton/yr particulates 5% opacity visible emissions
	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).
	OAC rule 3745-17-07(A)	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. The monitoring and recording devices shall be capable of accurately measuring the desired parameter.

D. Reporting Requirements

1. The permittee shall submit 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. A copy of such records shall be sent to the Director (appropriate district office or local air agency) within 30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance Methods

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-
0.064 lb/hr particulates

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-
0.28 ton/yr particulates

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-
5% opacity visible emission

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