

Facility ID: 0575010009 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.

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

Facility ID: 0575010009 Emissions Unit ID: P902 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>
P902 - Sand Muller and Sand Handling (including molders) for Green Sand	OAC rule 3745-31-05 (A)(3) PTI 05-11292	9.1 lbs PE/hr; 5.2 TPY PE
		Visible emissions from the stack shall not exceed 5 percent opacity as a 6-minute average
		Visible emissions of fugitive dust shall not exceed 5 percent opacity as a 3-minute average
	OAC rule 3745-17-07(A)(1)	The visible emissions limitation specified by this rule for the stack is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(B)(1)	The emissions limitation specified by this rule for fugitive dust is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-08(B)	See A.2.a
	OAC rule 3745-17-11	The stack emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- (a) The visible emissions of fugitive dust from any window, door, or other egress point from the pouring building shall not exceed 5 percent opacity as a 3-minute average. The emissions limitation of 9.1 pounds per hour of particulate emissions is based upon potential-to-emit for this emissions unit. Therefore, it is not necessary to establish record keeping and/or reporting requirements to ensure compliance with this limitation.

B. Operational Restrictions

1. This emissions unit shall be used for the production of molds for the green sand line only.
2. The maximum annual amount of aluminum poured for this emissions source shall not exceed 4,305.6 tons. It is conservatively assumed that the make-up of the aluminum poured is equally bifurcated between castings and scrap.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the pounds of aluminum castings poured for this emissions unit. It is conservatively assumed that the make-up of the aluminum poured is equally bifurcated between castings and scrap.

D. Reporting Requirements

1. The permittee shall submit annual reports which identify all days when emissions exceeding 5 percent opacity as a 3-minute average (except as provided by rule) were observed, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the year then the permittee is not required to submit a report.
2. The permittee shall submit annual reports that identify any exceedances of the annual aluminum pouring limitation

(4,305.6 tons), as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the year then the permittee is not required to submit a report.

E. Testing Requirements

1. Emissions Limitation -
9.1 pound of particulate emissions per hour

Applicable Compliance Method -
Compliance shall be determined by the following:

BH =number of batches per hour: 60;
SA =pounds of sand per batch: 3,300;
EF =emission factor from AP-42, 5th Edition, Volume I, Table 12. 10- 6: 0.092 PE per ton of sand
Emissions =(BH)(SA)(tn/2,000 lbs)(EF)
Emissions =(60 batches/hr)(3,300 lbs sand/batch)(tn/2,000 lbs)(0.092.2 lbs PE/tn sand)

Emissions =9.1 lbs PE/hr

2. Emissions Limitation -
5.2 tons of particulate emissions per year

Applicable Compliance Method -
Compliance shall be determined by the following:

Compliance shall be determined by the following method: (a) sum the monthly production of aluminum castings (in tons) for the calendar year; (b) multiple the yearly sum by 2 (it is conservatively assumed that the make-up of the aluminum poured is equally bifurcated between castings and scrap); (c) multiply the total of (b) by the ratio of 26 parts sand to 1 part aluminum metal poured; (d) multiply the total of (c) by 0.092 pound PE per ton of sand. (e) Convert the results to tons by dividing the sum by 2,000 lbs/ton;

3. Emissions Limitation -
Visible emissions of fugitive dust shall not exceed 5% opacity, as a 3-minute average, except as provided by rule.

Applicable Compliance Method -
Compliance shall be based upon visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. None