

Facility ID: 1677010004 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: 1677010004 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>
Pittsburgh Lectromelt electric arc furnace used to melt steel for casting steel ingots	OAC rule 3745-17-07	See A.2.a below.
	OAC rule 3745-17-08	See A.2.b and A.2.c below.
	OAC rule 3745-17-11	7.9 lbs/hr of particulate matter

2. Additional Terms and Conditions

- (a) Visible particulate emissions from the roof monitors shall not exceed 20% opacity as a six-minute average. The electric arc furnace shall be hooded and vented to a fabric filter (baghouse). The furnace and emissions control system shall be operated and maintained in a manner which maximizes the capture and control of furnace emissions. A continuous draft shall be maintained through the hood system during charging sufficient to minimize or eliminate visible emissions of fugitive dust. A continuous draft shall be maintained through the hood system during electrode removal to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

1. The maximum steel production rate for this emissions unit shall be limited to 9000 lbs/hr.
2. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall record the steel production rate on an hourly basis.
2. 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 an hourly basis.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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:

7.9 lbs/hr of particulate matter

Applicable Compliance Method:

Multiply the hourly steel production rate (tons/hr) by the AP-42 particulate emission factor of 12.7 lbs/ton. The resulting uncontrolled particulate emissions rate (lbs/hr) is then multiplied by the overall control efficiency of 90% (1 - 0.90), yielding the controlled particulate emissions rate (lbs/hr). Testing may also be required in accordance with the requirements of 40 CFR Part 60, Appendix A, Method 5.

The particulate emission factor was obtained from AP-42, 4th edition, table 7.10-2, dated October, 1986.

Emission Limitation:

20% opacity as a six-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

F. **Miscellaneous Requirements**

1. None