

Facility ID: 1677130061 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 P002](#)

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

Facility ID: 1677130061 Emissions Unit ID: P001 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 smelting pot furnaces; particulate emissions (PE) and emissions of lead vented to and controlled by a fabric filter (baghouse).	OAC rule 3745-31-05(A)(3) (PTI 16-01128)	Combined stack emissions from P001 & P002 shall not exceed 2.0 pounds/hour and 8.76 tons/year of PE; and 0.05 pound/hour and 0.22 ton/year of lead. The permittee shall employ hoods, ducts, fans and other equipment to adequately capture, contain and vent furnace emissions to a baghouse. Such equipment shall be capable of eliminating or minimizing visible emissions at the point(s) of capture. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-07(A). Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. This facility is not located within an "Appendix A" area, as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B). The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	
	OAC rule 3745-17-07(B)(11)(e) OAC rule 3745-17-08(A)	
	OAC rule 3745-17-11(B)	

2. Additional Terms and Conditions

- (a) The PE limit of 2.0 pounds per hour and the lead emissions limit of 0.05 pound per hour established pursuant to OAC rule 3745-31-05(A)(3) are greater than the potential to emit of this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with these emissions limits.

However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed modification of equipment or production procedures, materials processed, or any other change that would increase the potential emissions of any air pollutant.

B. Operational Restrictions

1. The permittee shall employ the baghouse serving this emissions unit at all times the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall document when the baghouse serving this emissions unit was not in service when the emissions unit was in operation.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the emissions unit and/or the baghouse serving this emissions unit. The presence or absence of any visible particulate emissions from the emissions unit and/or baghouse shall be noted weekly in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in an operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the determined cause of the abnormal emissions if a cause can be determined upon investigation;
 - d. the total duration of the visible emissions incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the baghouse serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.
2. The permittee shall submit on a semiannual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the emissions unit and/or any baghouse serving this emissions unit and (b) describes the corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).

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: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation: Combined stack emissions from P001 & P002 shall not exceed 2.0 pounds/hour and 8.76 tons/year of PE.

Applicable Compliance Method: If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation: Combined stack emissions from P001 & P002 shall not exceed 0.05 pound/hour and 0.22 ton/year of lead.

Applicable Compliance Method: If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 12.

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with ORC 3704.03(F)(4)(b) ["Review of New Sources of Air Toxics Emissions, Option A."] was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Facility ID: 1677130061 Emissions Unit ID: P002 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>
Natural gas-fired crucible furnaces; particulate emissions (PE) and emissions of lead vented to and controlled by a fabric filter (baghouse).	OAC rule 3745-31-05(A)(3) (PTI 16-01128)	Combined stack emissions from P001 & P002 shall not exceed 2.0 pounds/hour and 8.76 tons/year of PE; and 0.05 pound/hour and 0.22 ton/year of lead.
	OAC rule 3745-17-07(A)	The permittee shall employ hoods, ducts, fans and other equipment to adequately capture, contain and vent furnace emissions to a baghouse. Such equipment shall be capable of eliminating or minimizing visible emissions at the point(s) of capture.
	OAC rule 3745-17-07(B)(11)(e) OAC rule 3745-17-08(A)	The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-07(A). Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. This facility is not located within an "Appendix A" area, as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).
	OAC rule 3745-17-11(B)	The 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 PE limit of 2.0 pounds per hour and the lead emissions limit of 0.05 pound per hour established pursuant to OAC rule 3745-31-05(A)(3) are greater than the potential to emit of this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with these emissions limits.		
However, the permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed modification of equipment or production procedures, materials processed, or any other change that would increase the potential emissions of any air pollutant.		
B. Operational Restrictions		
1. The permittee shall employ the baghouse serving this emissions unit at all times the emissions unit is in operation.		
C. Monitoring and/or Record Keeping Requirements		
1. The permittee shall document when the baghouse serving this emissions unit was not in service when the emissions unit was in operation.		
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the emissions unit and/or the baghouse serving this emissions unit. The presence or absence of any visible particulate emissions from the emissions unit and/or baghouse shall be noted weekly in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in an operations log:		
a. the color of the emissions;		
b. whether the emissions are representative of normal operations;		
c. if the emissions are not representative of normal operations, the determined cause of the abnormal emissions if a cause can be determined upon investigation;		
d. the total duration of the visible emissions incident; and		
e. any corrective actions taken to eliminate the visible emissions.		
D. Reporting Requirements		
1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the baghouse serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.		
2. The permittee shall submit on a semiannual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the emissions unit and/or any baghouse serving this emissions unit and (b) describes the corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).		
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: Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1). Emission Limitation: Combined stack emissions from P001 & P002 shall not exceed 2.0 pounds/hour and 8.76		

tons/year of PE.

Applicable Compliance Method: If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation: Combined stack emissions from P001 & P002 shall not exceed 0.05 pound/hour and 0.22 ton/year of lead.

Applicable Compliance Method: If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 12.

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with ORC 3704.03(F)(4)(b) ["Review of New Sources of Air Toxics Emissions, Option A."] was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.