

Facility ID: 0247080759 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 P026](#)

[Go to Part II for Emissions Unit P027](#)

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

Facility ID: 0247080759 Emissions Unit ID: P026 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>
Process: 500 KW induction melter furnace for vertically casting copper alloys equipped with a baghouse	OAC rule 3745-31-05 PTI 02-11928	The following mass emission rates apply to combined furnace emissions (P026 and P027): 2.34 pounds of particulate matter per hour; 10.26 tons of particulate matter per year; 0.022 grain/dscf
	OAC rule 3745-17-11 40 CFR 60, Subpart M	Less stringent than limits of OAC rule 3745-31-05. Visible emissions from the exhaust of the baghouse shall not exceed 10 percent opacity as a six-minute average during any sixty-minute observation period.
Fugitive: Tapping of furnace and casting.	OAC rule 3745-17-07 (A) OAC rule 3745-17-07(B)	Less stringent than limit of 40 CFR 60, Subpart M. Visible emissions from roof vents and openings which house the emissions unit shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Sections A.2.a. and A.2.b.)

2. Additional Terms and Conditions

- (a) The permittee shall install and use hoods, fans, or other equipment to adequately enclose, contain, capture, vent and sufficiently minimize or eliminate fugitive dust. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. Implementation of the above-mentioned control measure in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 7 inches of water while the emissions unit is in operation.
2. This emissions unit shall not be operated while the 600 KW furnace, Ohio EPA emissions unit P027, is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly 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 recommendation, 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 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.

E. Testing Requirements

1. Compliance with the opacity limitation from the baghouse exhaust shall be demonstrated by using Method 9 as outlined in 40 CFR 60, Appendix A, if required by the Ohio EPA.
2. Compliance with the mass emission limitation shall be demonstrated by using Method 5 as outlined in 40 CFR 60, Appendix A. No testing is specifically required by this permit but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A). Such testing may be required at opacity levels less than those required by the visible emissions limit in Section A.1. Data from the emissions test conducted on November 5, 1998 while only one furnace was in operation may be used to estimate the hourly emissions rate.
3. If required by the Ohio EPA, compliance with the opacity limitation of fugitive dust from the roof vents and openings which house the emissions unit shall be determined in accordance with the Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
4. Compliance with the annual PM emission limitation shall be determined by multiplying the hourly PM emission rate by 8760 hours (total hours in a year) and dividing by 2000 (pounds in a ton).

F. Miscellaneous Requirements

1. The permittee shall notify the Northeast District Office of the Ohio EPA at least 60 days prior to operating the 500 KW and 600KW furnaces together. The permittee shall be required to demonstrate compliance with the PM limit through emissions testing while both units are operating together.

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Facility ID: 0247080759 Emissions Unit ID: P027 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>
Process: 600 KW induction melter furnace for vertically casting copper alloys equipped with a baghouse	OAC rule 3745-31-05 PTI 02-11928	The following mass emission rates apply to combined furnace emissions (P026 and P027): 2.34 pounds of particulate matter per hour; 10.26 tons of particulate matter per year; 0.022 grain/dscf
	OAC rule 3745-17-11 40 CFR 60, Subpart M	Less stringent than the limits of OAC rule 3745-31-05. Visible emissions from the exhaust of the baghouse shall not exceed 10 percent opacity as a six-minute average during any sixty-minute observation period.
	OAC rule 3745-17-07 (A) OAC rule 3745-17-07(B)	Less stringent than the limit in 40 CFR 60, Subpart M. Visible emissions from roof vents and openings which house the emissions unit shall not exceed 20% opacity as a three-minute average.
Fugitive: Tapping of furnace and casting.	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Sections A.2.a. and A.2.b.)

2. Additional Terms and Conditions

- (a) The permittee shall install and use hoods, fans, or other equipment to adequately enclose, contain, capture, vent and sufficiently minimize or eliminate fugitive dust. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. Implementation of the above-mentioned control measure in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 7 inches of water while the emissions unit is in operation.
 2. This emissions unit shall not be operated while the 500 KW furnace, Ohio EPA emissions unit P026, is in operation.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall properly 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 recommendation, 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 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.
- E. Testing Requirements**
1. Compliance with the opacity limitation from the baghouse exhaust shall be demonstrated by using Method 9 as outlined in 40 CFR 60, Appendix A, if required by the Ohio EPA.
 2. Compliance with the mass emission limitation shall be demonstrated by using Method 5 as outlined in 40 CFR 60, Appendix A. No testing is specifically required by this permit but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A). Such testing may be required at opacity levels less than those required by the visible emissions limit in Section A.1. Data from the emissions test conducted on November 5, 1998 while only one furnace was in operation may be used to estimate the hourly emissions rate.
 3. If required by the Ohio EPA, compliance with the opacity limitation of fugitive dust from the roof vents and openings which house the emissions unit shall be determined in accordance with the Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
 4. Compliance with the annual PM emission limitation shall be determined by multiplying the hourly PM emission rate by 8760 hours (total hours in a year) and dividing by 2000 (pounds in a ton).
- F. Miscellaneous Requirements**
1. The permittee shall notify the Northeast District Office of the Ohio EPA at least 60 days prior to operating the 500KW and 600KW furnaces together. The permittee shall be required to demonstrate compliance with the PM limit through emissions testing while both units are operating together.