

Facility ID: 1576001756 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: 1576001756 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>
Aluminum Melting Furnace, No. 2 Oil Fired, PTI #15-1036 1.9 MMBTU/Hr, 1000 Lb/Hr Maximum Melting Capacity, Mobile Emission Unit, Company Identification MMF-2.		0.64 lb PM/hr 2.81 TPY PM 0.556 lb SO2/MMBTU 1.06 lbs SO2/hr 4.63 TPY SO2 0.02 lb OC/MMBTU 0.038 lb OC/hr 0.17 TPY OC 0.553 lb NOx/MMBTU 1.0 lb NOx/hr 4.38 TPY NOx

OAC 3745-17-07 (A) Visible Particulate emissions from this stack shall not exceed twenty percent (20%) opacity as a six-minute average, except that they may exceed twenty percent (20%) opacity, as a six-minute average, for not more than six consecutive minutes in any sixty-minute period, but they shall not exceed sixty percent (60%) opacity, as a six-minute average, at any time.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The aluminum melting emissions shall be minimized by charging the furnace with only "clean" aluminum, i.e., not contaminated with oil, grease, paint, paper, or other similar contaminants which may produce emissions.
2. No fluxing or alloying operations shall take place in this emissions unit.
3. The permittee shall not melt more than 24,000 pounds of aluminum in this emissions unit in any one day.
4. The permittee shall not melt more than 8,760,000 pounds of aluminum in this emissions unit in any one calendar year.
5. The permittee shall not burn more than 325 gallons of No. 2 oil in this emissions unit in any one day.
6. The permittee shall not burn more than 118, 885 gallons of No. 2 oil in this emissions unit in any one calendar year.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily and annual records of the amount (in pounds) of aluminum melted in this emissions unit.

2. The permittee shall maintain daily and annual records of the volume (in gallons) of the No. 2 oil burned in this emissions unit.

D. Reporting Requirements

1. The permittee shall report the following in accordance with General Condition #3 of this permit:
 - a. Any day in which the weight (in pounds) of aluminum melted exceeded 24,000 pounds.
 - b. Any year in which the weight (in pounds) of aluminum melted exceeded 8,760,000 pounds.
 - c. Any day in which the usage of No. 2 oil exceeded 325 gallons.
 - d. Any year in which the usage of No. 2 oil exceeded 118, 885 gallons .

E. Testing Requirements

1. Compliance Methods

Compliance with the emissions limitation(s) in Section A 1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation / Applicable Compliance Method

a. Visible emissions limitation / Compliance shall be determined using Test Method Nine (9) as defined in OAC 3745-17-03 (B) (1).

b. Annual and hourly SO₂, OC, and NO_x mass emission rates / Multiply the pollutant emission factor by the volume in gallons of No. 2 oil burned during the time period and by the heat capacity of No. 2 oil (0.140 MM BTU/Gallon). The pollutant emission factors are 0.556 Lb SO₂, 0.02 Lb OC, and 0.553 Lb NO_x emitted per MM BTU of heat input.

c. Annual and hourly PM mass emission rates / To calculate the first PM mass emission rate, multiply the PM emission factor of 0.048 Lb PM per MM BTU by the volume in gallons of No. 2 oil burned during the time period and by the heat capacity of No. 2 oil (0.140 MM BTU/ gallon). To calculate the second PM mass emission rate, multiply the PM emission factor of 1.0 Lb of PM emitted per ton of aluminum melted by the tons of aluminum melted during the time period. Sum the two PM mass emission rates.

F. Miscellaneous Requirements

1. Storage, Treatment, Transport, and Disposal of Wastes

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of this emissions unit.

2. Mobile Emissions Unit Requirements

- (a) Prior to relocating a mobile or portable emissions unit, the permittee shall meet the requirements of Ohio Administrative Code (OAC) 3745-31-05 (F) & (G), including filing a written notice of the relocation, as detailed in the following requirements:

In determining whether the Director issues a site approval for a portable emission unit, the applicant must demonstrate that the following criteria have been met:

- (1) The emissions unit owner or operator possesses an Ohio EPA permit to install, permit to operate or registration status;
 - (2) The emissions unit is equipped with best available technology;
 - (3) The emissions unit owner has identified the proposed site to Ohio EPA;
 - (4) Ohio EPA has determined that the emissions unit, at the proposed site, will have an acceptable environmental impact;
 - (5) A public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;
 - (6) The owner of the proposed site has provided the emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the emissions unit to this proposed site; and,
 - (7) The emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.
- (b) Any site approvals issued by Ohio EPA shall be valid for no longer than three years and are subject to renewal.
 - (c) The Director may modify the site approval to add or delete certain emissions units or add or delete certain terms and conditions as appropriate.