

Facility ID: 1677020133 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: 1677020133 Emissions Unit ID: P005 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 melt/hold furnace, 1100 lbs/hr maximum process weight rate, uncontrolled and vented to a stack	OAC rule 3745-31-05 (PTI 16-825)	0.5 lb/hr of particulates
		0.5 lb/hr of total chlorides (Cl2 and HCl)
		See A.2.a below.
	OAC rule 3745-17-07	See A.2.b below.
	OAC rule 3745-17-11	See A.2.c below.

**2. Additional Terms and Conditions**

- (a) Potential emissions of particulate matter and total chlorides from this emissions unit are less than the applicable emission limitations, as established in the Permit to Install. Therefore, no recordkeeping, reporting, nor emissions calculations are required for compliance demonstration. Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule. The particulate emissions limitation based upon OAC rule 3745-17-11 is less stringent than the particulate emissions limitation based upon the best available technology requirements specified in OAC rule 3745-31-05.

**B. Operational Restrictions**

1. The permittee shall only burn natural gas as fuel in this emissions unit.
2. This emissions unit shall be charged with only pure bar stock and dry sawed-off pieces of solid aluminum. Aluminum chips or turnings shall not be employed.

**C. Monitoring and/or Record Keeping Requirements**

1. None

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:  
Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:

0.5 lb/hr of particulates

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the calculation of hourly potential particulate emissions specified below:

$$\text{PTE} = (\text{PWRmax}) \times (\text{EF}) = 0.0044 \text{ lb/hr of particulates}$$

where:

PTE = potential to emit;

PWRmax = 1100 lbs of aluminum metal processed/hr (maximum process weight rate); and

EF = 0.000040 lb of particulates/lb of aluminum metal processed (particulate emission factor, as developed in PTI 16-825).

Emission Limitation:

0.5 lb/hr of total chlorides

Applicable Compliance Method:

The permittee shall demonstrate compliance with the above limitation based upon the calculation of hourly potential total chlorides emissions specified below:

$$\text{PTE} = (\text{PWRmax}) \times (\text{EF}) = 0.29 \text{ lb/hr of total chlorides}$$

where:

PTE = potential to emit;

PWRmax = 1100 lbs of aluminum metal processed/hr (maximum process weight rate); and

EF = 0.000264 lb of total chlorides/lb of aluminum metal processed (total chlorides emission factor, as developed in PTI 16-825).

F. **Miscellaneous Requirements**

1. None