

Facility ID: 0575010148 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: 0575010148 Emissions Unit ID: P902 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>
P902 - 5,000 lbs/hr Schaeffer Aluminum Melting/Holding Furnace (Company ID: Furnace 3 S/N7-8626-0)	OAC rule 3745-31-05 (A)(3) PTI # 05-07330	0.56 lbs PE/hr, 2.5 TPY PE, 0.9 lbs NOx/hr, 3.9 TPY NOx, 0.76 lbs CO/hr, 3.3 TPY CO
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust from building openings shall not exceed 0 percent opacity as a 3-minute average, except as provided by rule 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 emissions limitation of 0.56 lbs PE/hr, 2.5 TPY PE, 0.9 lbs NOx/hr, 3.9 TPY NOx, 0.76 lbs CO/hr, 3.3 TPY CO are based upon potential-to-emit for this emissions unit. Therefore, it is not necessary to establish record keeping and/or reporting requirements to ensure compliance with these limitation.

B. Operational Restrictions

1. Only virgin aluminum ingots or clean scrap shall be melted in this furnace. Aluminum contaminated with rubber, plastic, paper, rags, oil, grease, or similar smoke-producing material shall not be charged in this furnace.
2. Natural gas shall be the only fuel burned in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the emission limitation(s) in section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation-
0.56 lbs PE/hr and 2.5 TPY PE

Applicable Compliance Method-
Compliance shall be demonstrated using Method 5, 40 CFR Part 60, Appendix A. In the absence of Ohio EPA requiring such testing, the permittee may calculate actual PE emission rates for the unit utilizing the following equation:

$$E = [(maximum\ aluminum\ melting\ rate\ in\ tons\ per\ hour) \times (EF1)] + [(natural\ gas\ combustion\ rate\ in\ million\ cubic\ feet\ per\ hour) \times (EF2)]$$

where:

E = Particulate matter emissions rate(lbs/hr).
EF1 = Emission Factor, 0.43 lb (from similar source stack test data)
EF2 = Emission Factor, 7.6 lbs (AP-42 1.4, date 9/98)

Note: emission limitations are based on max. cu. ft/hr = 9,000 and 8,760 hr/yr.

Emission limitation-
0 % opacity as a 3-minute average

Applicable Compliance Method-

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in OAC rule 3745-17-03.

Emission Limitation-
0.9 lbs NOx/hr and 3.9 TPY NOx

Applicable Compliance Method-

The permittee may calculate actual NOx emission rates for the unit utilizing the following equation:

$$E = (EF/1,000,000 \text{ cu ft})(\text{maximum cu ft/hr})$$

where:

E= NOx emission rate (lbs/hr)

EF= Emission Factor, 100 lbs (from AP-42 1.4-2, date 3/98)

Note: emission limitations are based on max. cu. ft/hr = 9,000 and 8,760 hr/yr.

Emission Limitation-
0.76 lbs CO/hr and 3.3 TPY CO

Applicable Compliance Method-

The permittee may calculate actual CO emission rates for the unit utilizing the following equation:

$$E = (EF/1,000,000 \text{ cu ft})(\text{maximum cu ft/hr})$$

where:

E= CO emission rate (lbs/hr)

EF= Emission Factor, 84 lbs (from AP-42 1.4-2, date 3/98)

Note: emission limitations are based on max. cu. ft/hr = 9,000 and 8,760 hr/yr.

F. **Miscellaneous Requirements**

1. None