

Facility ID: 0306020051 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: 0306020051 Emissions Unit ID: P004 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>
3500 lb/hr primary aluminum, natural gas fired reverberatory furnace	OAC rule 3745-31-05(A)(3) PTI 03-13483	Use of low NOx burners 0.90 lb nitrogen oxide (NOx)/hour, 3.95 tons NOx /year 1.51 lbs particulate emissions (PE)/hour, 6.61 tons PE /year 2.04 lbs carbon monoxide (CO)/hour, 8.95 tons CO /year 0.02 lb hydrogen flouride (HF)/day, 0.004 tons HF /year 0.006 lb hydrogen chloride (HCl)/day, 0.001 tons Cl/year 20% opacity as a six-minute average
	OAC rule 3745-17-11(B)(2)	None, see A.I.2.a.
	OAC rule 3745-17-07(A)	None, see A.I.2.b.

2. Additional Terms and Conditions

- (a) The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.
This emissions unit is exempt from the visible PE limitations specified on OAC rule 3745-17-07 (A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

B. Operational Restrictions

1. The permittee shall only process "clean" raw materials in this emissions unit (i.e. free of oils, greases, solvents, etc.).

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the name and identification of each flux employed.

D. Reporting Requirements

1. None

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:
0.90 lbs NOx/hr

Applicable Compliance Method:

This limitation was developed in accordance with a manufacturer supplied emission factor of 0.098 lb NO_x/mmBtu multiplied by the maximum firing capacity of 9.2 mmBtu/hr.

If required, compliance shall be determined in accordance with 40 CFR 60, Appendix A, Method 7.

Emission Limitation:
2.04 lbs CO/hr

Applicable Compliance Method:

This limitation was developed in accordance with a manufacturer supplied emission factor of 0.222 lb CO/mmBtu multiplied by the maximum firing capacity of 9.2 mmBtu/hr.

If required, compliance shall be determined in accordance with 40 CFR 60, Appendix A, Method 10.

Emission Limitation:
1.51 lb PE/hr

Applicable Compliance Method:

This limitation was developed in accordance with a manufacturer supplied emission factor of 0.86 lb PE/ton multiplied by the maximum furnace capacity of 3500 lb/hr and dividing by 2000 lb/ton.

If required, compliance shall be determined in accordance with 40 CFR 60, Appendix A, Method 5.

Emission Limitation:
20% opacity as a six-minute average

Applicable Compliance Method:

Compliance with the opacity restriction shall be determined in accordance with 40 CFR 60, Appendix A, Method 9.

Emission Limitation:
0.02 lb HF/day

Applicable Compliance Method:

This limitation represents the potential to emit for this emissions unit based on a company supplied emission factor of 0.0036 oz. HF per lb of flux and a maximum flux usage rate of 70 lb per day.

If required, compliance shall be determined in accordance with 40 CFR 60, Appendix A, Method 13.

Emission Limitation:
0.006 lb HCl/day

Applicable Compliance Method:

This limitation represents the potential to emit for this emissions unit based on a company supplied emission factor of 0.0014 oz. Cl per lb of flux and a maximum flux usage rate of 70 lb per day.

If required, compliance shall be determined in accordance with 40 CFR 60, Appendix A, Method 26.

Emission Limitations:
3.95 tons NO_x/yr
8.95 tons CO/yr
6.61 tons PE/yr
0.004 ton HF/yr
0.001 ton HCl/yr

Applicable Compliance Method:

The ton/yr limitations were developed by multiplying the lb/hr (or lb/day) limitation by a maximum operating schedule of 8760 hr/year (or 365 day/yr), and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly (or daily) limitation, compliance will also be shown with the annual limitation.

F. Miscellaneous Requirements

1. None