



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
STARK COUNTY
Application No: 15-1387**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
X	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: November 17, 1999

Albex Aluminum, Inc
Richard D Pollock
4416 Louisville Road, PO Box 7337
Canton, OH 44286-0449

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
CANTON CITY HEALTH DEPARTMENT

FINAL PERMIT TO INSTALL 15-1387

Application Number: 15-1387

APS Premise Number: 1576001813

Permit Fee: \$800

Name of Facility: Albex Aluminum, Inc

Person to Contact: Richard D Pollock

Address: 4416 Louisville Road, PO Box 7337
Canton, OH 44286-0449

Location of proposed air contaminant source(s) [emissions unit(s)]:

**4416 Louisville Road
Plain Township, Ohio**

Description of proposed emissions unit(s):

PROCESS WITH 20 MMBTU/HR NATURAL GAS-FIRED ALUMINUM SMELTING FURNACE.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The

permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance

that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM ₁₀	15.33
NO _x	8.76
CO	7.36

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(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 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>
20 MMBtu/hr natural gas fired 5 tons/hr aluminum smelting furnace; Furnace #4	OAC rule 3745-31-05	PM/PM ₁₀ : 3.5 pounds/hour 15.33 tons/year nitrogen oxides: 0.1 pound/MMBtu 2 pounds/hour 8.76 tons/year carbon monoxide: 1.68 pounds/hour; 7.36 tons/year
	OAC rule 3745-17-07(A)	There shall be no visible particulate emissions from the stack serving this emissions unit with an opacity in excess of 10% for a 3-minute average.
	OAC rule 3745-17-07(B)	BAT is more restrictive. Visible particulate emissions of fugitive dust escaping from the building holding this emissions unit shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08	This emissions unit shall employ reasonably available control measures.
	OAC rule 3745-17-11	BAT is more restrictive.

2. Additional Terms and Conditions

2.a None.

B. Operational Restrictions

1. Only "clean charge" shall be melted in this furnace. "Clean charge" shall be defined as the following: "furnace charge materials of aluminum to include molten aluminum, T-bar, sows, ingots, alloying elements, uncoated aluminum chips or dried aluminum chips dried at 650°F or higher, unpainted dry aluminum scrap, aluminum scrap delacquered and/or decoated at 900°F or higher, and noncoated runaround scrap either purchased or generated on site."
2. Prior to startup, the permittee shall submit a Scrap Management Plan (SMP) to the Canton local air agency for review and approval. The SMP shall be implemented immediately after approval by the Canton LAA. The main focus of the SMP shall be to ensure that only clean scrap is melted in this furnace.
3. Natural gas shall be the only fuel burned in this emissions unit.
4. This emissions unit shall not conduct any reactive fluxing. Reactive fluxing means the use of any gas, liquid, or solid flux that results in a HAP emission.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is being charged with scrap aluminum and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall keep monthly records of the identity of all charge materials and fluxing materials employed by this emissions unit. If any charge materials are employed which do not meet the definition of "clean charge" found in section B.1 above, the amount of such material shall be recorded. If any reactive fluxes are employed the amount of such fluxes shall be recorded.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports of the following:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and describe any corrective actions taken to eliminate the visible particulate emissions;
 - b. identify the type and amount of any charge materials that do not meet the definition of "clean charge" as defined in section B.1 above;
 - c. identify the type and amount of any reactive fluxes employed.
2. The permittee shall submit reports in the following manner:
 - a. Reports shall be submitted to the Canton City Health Department; Air Pollution Control Division; 420 Market Avenue N.; Canton, OH 44702.
 - b. Quarterly written reports of any deviation from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the monitoring and recordkeeping requirements specified in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be promptly made to the Canton local air agency. If no deviations occurred during the calendar quarter, a quarterly report shall be submitted which states that no deviations occurred during that quarter. The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar-year quarters. (Any malfunctions must be reported in accordance with the procedures specified in OAC rule 3745-15-06.)

E. Compliance Methods and Testing Requirements

1. Compliance with the emission limitation(s) of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
3.5 pounds/hour of PM/PM₁₀

Applicable Compliance Method:
Compliance shall be demonstrated using Method 5, 40 CFR Part 60, Appendix A.
 - b. Emission Limitation:
2 pounds NO_x/hour

Applicable Compliance Method:
The manufacturer has guaranteed that the NO_x emissions shall not exceed 0.1 lb/MMbtu

- c. Emission Limitation:
1.68 pounds CO/hour

Applicable Compliance Method:

This emissions unit has two 10 MMBtu/hr burners which adds up to 20 MMBtu/hr which burns up to 20,000 CF of natural gas per hour. Multiplying the AP-42 emission factor of 84 lbs CO/10⁶ CF times 20,000 cf/hr equals 1.68 lbs/hr.

- d. Emission Limitation:
No visible particulate emissions in excess of 10% for a 3-minute average from the stack serving this emissions unit.

Applicable Compliance Method:

Method 9, 40 CFR Part 60 Appendix A

- e. Emission Limitation:

Visible particulate emissions of fugitive dust escaping from the building holding this emissions unit shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

Method 9, 40 CFR Part 60, Appendix A

- f. Emission Limitation:
15.33 tons PM-PM₁₀/year
8.76 tons NO_x/year
7.36 tons CO/year

Applicable Compliance Method:

Multiply the hourly emission limit times 8,760 hours/year.

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 3 months after startup of this emissions unit;
- b. the emission testing shall be conducted to demonstrate compliance with the particulate emission limit of 3.5 pounds/hour;
- c. the following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5, 40 CFR Part 60, Appendix A;
- d. the test(s) shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Canton local air agency. Typical aluminum scrap shall be charged into this emissions unit during the test;

- e. if the test results indicate that the allowable particulate emissions rate of 3.5 lbs/hr is being exceeded the applicant shall submit a permit to install application to allow an increase in the allowable emission rate. This application shall be submitted within 60 days following the completion of the test(s) to the Canton Local Air Agency. This increase would be considered a "modification" as defined in OAC rule 3745-31-01. The application shall include modeling that demonstrates compliance with the ½ PSD increments for PM₁₀ as required by Ohio EPA guidelines; and,
- f. not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Canton local air agency's refusal to accept the results of the emission test(s).

Personnel from the Canton local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Canton local air agency within 30 days following completion of the test(s).

F. Miscellaneous Requirements

None.