



State Of Ohio Environmental Protection Agency

P.O. Box 1049, 361 East Broad St., Columbus, Ohio 43216-1049
(614) 466-8565



Re: Permit to Install
Washington County

Richard F. Celeste, Governor

May 14, 1986

ELKEM METALS CO.
P.O. BOX 299
MARIETTA, OHIO 45750

06-1610

CERTIFIED MAIL

ATTN: H. A. ARNOLD

Dear Sir:

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.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Board of Review 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 with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency and the Environmental Law Division of the Office of the Attorney General within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
250 East Town Street, Room 101
Columbus, Ohio 43215

Very truly yours,

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

TGR/gs

cc: US EPA
Southeast District Office

1986 MAY 15 AM 9:17
O.E.P.A.
S.E.D.O.

Permit to Install Terms and Conditions

Application No. 06-1610
APS Premise No. 0684020006
Permit Fee: \$780.

Name of Facility: ELKEM METALS CO

Person to Contact: H. A. ARNOLD

Address: P.O. BOX 299
MARIETTA, OHIO 45750

Location of proposed source(s): ST RT 7-5 MI S OF MARIETTA
WARREN TWP, OHIO

Description of proposed source(s): MODIFICATION TO ALLOY CRUSHING-
SIZING SYSTEM TO INCREASE
PRODUCTION.

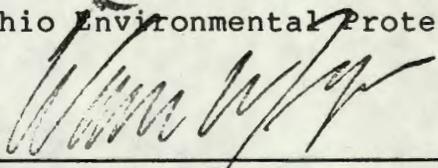
Date of Issuance: MAY 14, 1986

Effective Date: MAY 14, 1986

The above named entity is hereby granted a permit to install for the above described source(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 source(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 source(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


Warren W. Tyler

Substantial construction for installation must take place within eighteen months of the effective date of this permit. This deadline may be extended by up to twelve months, if application is made to the Director no less than sixty days before the expiration of this permit and the party shows good cause for any such extension.

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, examining records or reports pertaining to the construction, modification or installation of the above described source of environmental pollutants.

If the construction of the proposed source has already begun or has been completed prior to the date the Director of the Ohio 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.

The specified permit fee must be remitted within 15 days of the effective date of this permit to install.

This permit shall apply only to the source(s) shown on the application approved by the Ohio Environmental Protection Agency.

This Permit to Install is applicable only to the installation and/or modification of the following air contaminant sources, wastewater disposal systems and solid waste disposal facilities:

Air Contaminant Sources: Modification to Alloy Crushing - Sizing System to Increase Production

Wastewater Disposal Systems: None

Solid Waste Disposal Facilities: None

The air contaminant source(s) listed below comprise this Permit to Install. Emission control requirements/limits are specified in the table below:

<u>Ohio EPA Source No</u>	<u>Source Description & I.D.</u>	<u>BAT Determination</u>	<u>Applicable OAC Rule</u>	<u>Allowable Emission Rate</u>	<u>Annual Emissions</u>
P911	Concentrator & Conveyor		3745-17-11	26.1 lb/hr***	*49.3 T/Y
	Crusher	Baghouse	3745-31-05	.030 gr/dscf or No visible emissions.	**28.5 T/Y

*Estimated 6.6 T/Yr increase in particulate emissions after modification.

** Estimated 15.3 T/Yr reduction in particulate emissions after modification.

*** Estimated 2.3 lb/hr decrease in allowable TSP emissions after modification and employing BAT.

SUMMARY
 TOTAL NEW SOURCE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Particulate	77.8 (Net 8.7 T/Yr reduction)

As specified in OAC 3745-31-05, all new sources must, at a minimum, employ Best Available Technology. The following terms and conditions fulfill these requirements and any applicable federal regulations.

Allowable mass emission limitation(s) and/or control requirements:

The allowable mass emission limitation(s) and/or control requirements for the operation(s), equipment and/or property identified above are specified in the following table:

<u>Operation(s), Equipment and/or Property</u>	<u>Allowable Mass Emission Limitation(s) and/or Control Requirements</u>
Concentrator & Conveyor	26.1 pounds of particulate emissions per hour.

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Crusher

.030 grain of particulate
emissions per dry standard
cubic foot of exhaust
gases or no visible
emissions from the
exhaust, whichever is less
stringent.