



# PERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

O.E.P.A.  
S.E.D.O.

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Date of Issuance 02/17/95

Application No. 0684020006P908

Effective Date 02/17/95

Permit Fee \$000

This document constitutes issuance to:

ELKEM METALS COMPANY  
STATE ROUTE 7 SOUTH  
MARIETTA

OHIO 45750

of a permit to operate for:

ELECTRIC ARC FURNACE  
FURNACE NO. 12

The following terms and conditions are hereby expressly incorporated into this permit to operate:

1. This permit to operate shall be effective until 02/16/98. You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to the appropriate Ohio EPA field office.
2. The above-described source is and shall remain in full compliance with all applicable State and federal laws and regulations and the terms and conditions of this permit.
3. Prior to any modification of this source, as defined in rule 3745-31-01 of the Ohio Administrative Code (OAC), a permit to install must be granted by the Ohio EPA pursuant to OAC Chapter 3745-31.
4. The Director of the Ohio EPA or an authorized representative may, subject to the safety requirements of the permit holder, enter upon the premises of this source at any 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 and federal air pollution laws and regulations and the terms and conditions of this permit.
5. A permit fee in the amount specified above must be remitted within 15 days from the issuance date of this permit.
6. Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA field office must be notified in writing of any transfer of this permit.
7. This source and any associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices in order to minimize air contaminant emissions. Any malfunction of this source or any associated air pollution control system(s) shall be reported immediately to the appropriate Ohio EPA field office in accordance with 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 this source.
8. Any unauthorized or emergency release of an air contaminant from this source which, due to the toxic or hazardous nature of the material, may pose a threat to public health, or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.)

9. The appropriate Ohio EPA field office is:

OHIO EPA, SOUTHEAST DISTRICT OFFICE (DAPC)  
AIR POLLUTION GROUP 2195 FRONT ST.  
LOGAN, OH 43138 (614) 385-8501

10.  If this term and condition is checked, the permit holder is subject to the attached special terms and conditions.

OHIO ENVIRONMENTAL PROTECTION AGENCY

*Donald R. Schreyer*

Director

APPLICATION NUMBER: 0684020006 P908  
 FACILITY NAME: ELKEM METALS COMPANY  
 COMPANY ID: ELECTRIC ARC FURNACE  
 EQUIPMENT DESCRIPTION: FURNACE NO. 12

SPECIAL TERMS AND CONDITIONS

1. Applicable Rules:

The specific operation(s), equipment and/or property which constitute the air contaminant source and which are covered by this permit are listed in the following table along with the applicable rule(s) of the Ohio Administrative Code:

<u>Operation(s), Equipment and/or Property</u>	<u>Applicable Rule(s) (OAC 3745-)</u>
Furnace Charging and Melting	3745-17-07 3745-17-11
Furnace Tapping	3745-17-08(B)(3) 3745-17-11

(This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source).

2. 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>
Furnace Charging and Melting	A continuous draft shall be maintained in the charging and melting area to minimize or eliminate visible emissions of fugitive dust to the extent possible with good engineering judgment, and exhausted to control equipment.

Furnace Tapping

The tapping hood shall have a collection efficiency sufficient to minimize or eliminate visible emissions of fugitive dust at the point of capture to the extent possible with good engineering design, the scrubber shall achieve an outlet particulate emission rate of not greater than 0.030 grains per dry standard cubic foot.

Furnace Total Emissions

Total furnace emissions shall not exceed 27.7 pounds per hour of particulate emissions when producing Std. FeMn, or 39 pounds per hour of particulate emission when H.C. FeCr.

3. Stack Test Requirements for Particulate Emissions:

Once during each calendar year, beginning with calendar year 1995, this facility shall conduct, or have conducted, an emission test(s) for this source in order to demonstrate compliance with the allowable mass emission rate for particulates. The emission test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03.

Not later than 30 days prior to the proposed test date(s), this facility shall submit an "Intent to Test" notification to the Ohio EPA Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the source 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 Southeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Southeast District Office shall be permitted to witness the test(s), examine the testing equipment and acquire data and information regarding the source operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted to the Ohio EPA Southeast District Office within 30 days following completion of the test(s).

4. Monitoring of Pressure Drop and Water Flow Rate:

Elkem shall continue to monitor pressure drop across the scrubber and water flow rate to the scrubber on a continuous basis with hourly average printouts. Copies of the printouts shall be kept for a least three years and shall be made available to Ohio EPA for review.

Prepared by: Daniel J. Canter *DJ*  
Date prepared: January 3, 1995

DJC/bje