



State of Ohio Environmental Protection Agency

STREET ADDRESS:

1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

July 16, 1997

CERTIFIED MAIL

Re: Modification to Permit to Install No. 15-575
Stark County

Timken Company
1835 Dueber Avenue SW
Canton, OH 44706-2798

Attention: Daniel P. Lake

Enclosed please find a modification to the Ohio EPA Permit to Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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 Review Appeals Commission 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 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, OH 43215.

Very truly yours,

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

7/1/97

Enclosure

cc: US EPA
CANTON AIR POLLUTION CONTROL

George V. Voinovich, Governor
Nancy P. Hollister, Lt. Governor
Donald R. Schregardus, Director



Permit to Install Terms and Conditions

Issuance Date: July 16, 1997
Effective Date: July 16, 1997
Modification Fee: \$500.00

OHIO ENVIRONMENTAL PROTECTION AGENCY

MODIFICATION TO PERMIT TO INSTALL

Name of Applicant: Timken Company
Address: 1835 Dueber Avenue SW
City: Canton, OH 44706-2798

The Ohio EPA has received a request for a modification for the Ohio EPA Permit to Install referenced above.

The Permit to Install issued to **Timken Company, Permit to Install 15-575** is hereby modified in the following manner:

Terms and Conditions on pages 4, 5 and 6 of Permit to Install issued on **February 9, 1994**.

The reason for the modification is: **to modify the Air Emission Summary on Pages 4 and 5, and Additional Special Terms and Condition No. 5 on Page 6 of PTI No. 15-575, issued February 9, 1994, due to incorrect application.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

Ohio Environmental Protection Agency

Director



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329

George V. Voinovich
Governor

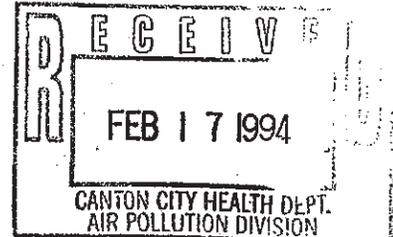
Donald R. Schregardus
Director

Re: Permit to Install
Stark County
Application No: 15-575

CERTIFIED MAIL

February 9, 1994

TIMKEN COMPANY
DANIEL P. LAKE
1835 DUEBER AVENUE SW
CANTON, OH 44706-2798



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 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 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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

cc: US EPA
CANTON AIR POLLUTION CONTROL



Permit to Install Terms and Conditions

Application No. 15-575
APS Premise No. 1576050614
Permit Fee: \$1000.00

Name of Facility: TIMKEN COMPANY

Person to Contact: DANIEL P. LAKE

Address: 1835 DUEBER AVENUE SW
CANTON, OH 44706-2798

Location of proposed source(s): 1835 DUEBER AVENUE S W
CANTON, OHIO

Description of proposed source(s):
LADLE FURNACE REPLACING #4 EAF WITH EXISTING BAGHOUSES.

Date of Issuance: February 9, 1994

Effective Date: February 9, 1994

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

Director

SOURCE OPERATION 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.

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for TIMKEN COMPANY located in Stark County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P082	#1 Ladle Furnace (Maintain Temp. of Melt & for Alloy Additions)	Fabric Filter	3745-31-05 3745-17-07 3745-17-11	00.0052 GR/DSCF 3.2 lbs PM/hour 11.75 lbs CO/hour 6.5 lbs SO ₂ /hour 195 lbs SO ₂ /day 2.61 tons SO ₂ /month 500 lbs of sulfur added per hour 1500 lbs of sulfur added per day 21.9 tons of sulfur added per month 263 tons of sulfur added per year

This source will replace the existing No. 4 electric arc furnace (existing EPA source number of No. 4 electric arc furnace is P903). This furnace does not melt steel but only maintains its temperature. Since it does not melt steel, it does not fall under the definition of an EAF as found in NSPS Subpart AAa.

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	14.1
CO	51.44
SO ₂	31.33

Timken claims that uncontrolled emissions going to the baghouses will be about 70% less than the former emissions coming from No. 4 electric arc furnace, because of the elimination of the initial melting of the scrap metal and slag making operations. Nevertheless, these figures are based on AP42 emission factors for EAF's.

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than two years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the Canton Air Pollution Control, 420 Market Ave. N., City Hall, Canton, Ohio 44702-1544.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has 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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. This source will replace the existing No. 4 electric arc furnace. (Existing EPA source number of No. 4 electric arc furnace is P903).
2. The mass emissions from baghouses #2 and #4 which service this source shall not exceed 0.0052 GR PM/DSCF.
3. Emissions from this source will be controlled by a side-draft hood vented to baghouse #2 and a building evacuation vented to baghouse #4.
4. No oxygen injection will take place in this source.
5. No more than 500 lbs. of sulfur will be added per hour.
No more than 1500 lbs. of sulfur will be added per day.
No more than 263 tons of sulfur will be added per year.
Records will be kept in the facility's files of the amount of sulfur added. These records shall be made available to members of this agency upon request. These records shall be maintained for a minimum of two (2) years.
6. The overall sulfur recovery to the steel shall be at least 80%.
7. ALL sulfur injection will be done by wire.