OhioEPA
State of Ohio Environmental Protection Agency

01

PERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

Date of Issuance 02/03/95 Application No. 1576050614P062

Effective Date 02/03/95 Permit Fee $000

This document constitutes issuance to:

TIMKEN COMPANY CANTON PLANT NO 5
1835 DUEBER AVE SW
CANTON OHIO 44706

of a permit to operate for:

#1 LADLE FURNACE
#1 LADLE FURNACE, PLANT #5

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

1. This permit to operate shall be effective until 02/03/98
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:
AIR POLLUTION CNTRL DIV. CANTON CITY HEALTH DEPT. -
CITY HALL 420 MARKET AVE. NORTH
CANTON, OH 44702-1544 (216)-489-3385
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. Schregardus
Director

EPA 3834
Revised 9-90

APPLICATION NUMBER :	**15 76 05 0614 P082**
FACILITY NAME :	**THE TIMKEN COMPANY**
EQUIPMENT DESCRIPTION :	**# 1 LADLE FURNACE (MAINTAIN TEMP. OF MELT & ALLOY ADDITIONS)**
COMPANY ID :	**# 1 LADLE FURNACE, PLANT # 5**

SPECIAL TERMS AND CONDITIONS

1. **Applicable State Regulation(s)**

The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source:

3745-31-05
3745-17-07
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:

Operation(s), Equipment and/or Property	**Allowable Mass Emission Emission Limitation(s) and/or Control Requirements**
# 1 Ladle Furnace	0.0052 Gr / dscf
	11.75 Lb CO / Hr 51.44 TPY CO
	3.9 Lb SO_2 / Hr 3.76 TPY SO_2

2. - Continued

Operation(s), Equipment and/or Property	Allowable Mass Emission Emission Limitation(s) and/or Control Requirements
# 1 Ladle Furnace	Maximum of 30 Lbs of Sulfur added per Hour
	Maximum of 360 Lbs of Sulfur added per Day
	Maximum of 63 Tons of Sulfur added per Year

3. This source replaced the existing # 4 electric arc furnace. The Ohio EPA Source number of the # 4 electric arc furnace was P903.

4. This source shall be serviced by fabric filters #2 (side draft hood) and #4 (building evacuation). Fabric filters #2 and #4 normally service other air contaminant sources simultaneously with Ohio EPA Source P082. Fabric Filter #2 normally services Ohio EPA Sources P064 (Ladle Refiner, with hooding, during reladling operation), Ohio EPA Source P082 (#1 Ladle Furnace, side draft hooding), and P906 (No. 7 EAF, side draft hooding) and the Primary Scarfing Beds Melt Shop Pit and the Alloy Conveyor. The purpose of Fabric Filter #4 is building evacuation of the melt shop building. Fabric Filter #4 services the roof monitors from the center of the melt shop building south, the lime silo day bins from the center of the melt shop building south, and services Ohio EPA Sources P082 (building evacuation), P901 (No. 1 EAF) (building evacuation), P902 (No. 2 EAF)(building evacuation), and P064 (building evacuation). Particulate matter emissions from fabric filters #2 and #4 shall be limited to 0.0052 Gr / dscf when servicing any combination of the Ohio EPA Sources and operations indicated in this Special Term and Condition.

5. Stack Test Requirements for Particulate Emissions

   Within 6 months prior to the expiration of this operating permit, this facility shall conduct, or have conducted, emission test(s) for this source, in order to demonstrate compliance with the allowable mass emissions per standard volume of dry gas for particulates. During this emission test, all sources, operations and equipment which are serviced by Fabric Filter #2 and #4 shall be operated at maximum capacity unless otherwise approved by Ohio EPA. The allowable mass emissions per standard volume of dry gas shall be 0.052 Gr / dscf.

   The emission test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03.

5. - Continued

Not later than 30 days prior to the proposed test date(s), this facility shall submit an "Intent to Test" notification to the City of Canton Health Department, Air Pollution Control Division, 420 Market Avenue North, Canton, Ohio 44702-1544. The "Intent to Test" notification shall describe in detail the sources, equipment and operations including the Ohio EPA Source Numbers serviced by the collection device which is to be emission tested, the proposed test methods and procedures, the proposed 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 field office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA field 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 field office within 30 days following completion of the test(s). The report shall contain all of the items indicated in section K of the Intent to Test Notification as a minimum.

6. No oxygen injection shall take place in this source.

7. No more than 30 Lbs of sulfur shall be added per hour. No more than 360 Lbs of sulfur shall be added per day. No more than 63 tons of sulfur shall 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.

8. The overall sulfur recovery to the steel shall be at least 80%.

9. All sulfur injection shall be done by wire.