OhioEPA
State of Ohio Environmental Protection Agency

PERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

Date of Issuance 05/10/93 Application No. 1576050614P064

Effective Date 05/10/93 Permit Fee $500

This document constitutes issuance to:

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

of a permit to operate for:

VACUUM ARC DEGASSER W/CYCLONE-SCRUBBER & BAGHOUSE
LADLE REFINER (NO. 1)

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

1. This permit to operate shall be effective until 05/09/96
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

RECEIVED
MAY - 7 1993
CANTON CITY HEALTH DEPT.
AIR POLLUTION DIVISION

Donald R Schregardus
Director

EPA 3834
Revised 9-90

APPLICATION NUMBER:	15 76 05 0614 P064
FACILITY NAME:	TIMKEN COMPANY CANTON PLANT NO. 5
EQUIPMENT DESCRIPTION:	LADLE REFINER W/ CYCLONE-SCRUBBER & BAGHOUSE
COMPANY ID:	LADLE REFINER (NO. 1)

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. This source replaced the existing electric arc furnace No. 5.

2. The vacuum arc degasser is operated in two different modes. These modes are the reladling process and the ladle refining process. During the reladling process, the reladling emissions shall be controlled by hooding, then ducted to the existing baghouse No. 2 and also controlled by the roof evacuation system connected to the baghouses No. 4 and No. 5. During the ladle refining process, a portion of the ladle refining process emissions shall be vented to a cyclone and scrubber in series and the other portion of the ladle refining process emissions shall be vented to a series of ejectors and condensers.

3. The following rule(s) of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements of this source:

   3745-17-07
   3745-17-11
   3745-31

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

4. **<u>Allowable Emission Limitation(s)</u>**

   The emissions from this source shall not exceed the following:

   5.49 lbs particulate/hour

5. This source shall not employ oxygen in the refining process.

6. This source is limited to 100 tons/hour of production.

7. **Stack Test Requirements for Particulate Emissions**

Within 6 months prior to the expiration of this permit, 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 which is 5.49 lbs particulate/hour. The emission test(s) shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The test(s) shall be conducted under maximum production rates unless otherwise specified or approved by the Ohio EPA.

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 field 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 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).

PREPARED BY: DANIEL J. SCHILTZ

DATE PREPARED: 2-4-93