

PERMIT TO OPERATE AN AIR CONTAMINANT SOURCE

Date of Issuance 01/20/95

Application No. 1576051149P004

Effective Date 01/20/95

Permit Fee \$000

This document constitutes issuance to:

**METROPOLITAN INDUSTRIES
1201 MILLERTON STREET S.E.
CANTON****OHIO 44707**

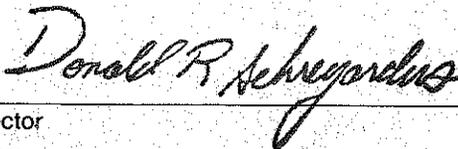
of a permit to operate for:

**NATURAL GAS FIRED TILE TUNNEL KILN
KILN #1**

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

1. This permit to operate shall be effective until 01/20/98
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



Director

EPA 3834
Revised 9-90

APPLICATION NUMBER: 15 76 05 1149 P004
FACILITY NAME: METROPOLITAN INDUSTRIES
EQUIPMENT DESCRIPTION: NATURAL GAS FIRED TILE TUNNEL KILN
COMPANY ID: KILN #1

SPECIAL TERMS & CONDITIONS

1. Daily samples will be taken of the raw materials (clay and shale) used in tile production. A composite sample, accumulated from a seven day period, will be analyzed to determine the weekly weighted average sulfur content of the raw materials used to make tile that week. Each week this procedure should be repeated.

The total amount of sulfur in the raw materials used in P004, P005 and P006 shall not exceed 7,000 lbs. in any one week. This amount of sulfur will be determined by multiplying the tons of raw material (dry weight) used in a week times the weekly weighted average sulfur content of the raw materials.

The total amount of sulfur in the raw materials used in P004, P005 and P006 shall not exceed 78,525 lbs. in any one quarter. This number was arrived at using this calculation:

$$\begin{aligned} 245 \text{ tons SO}_2/\text{year} \times 2000 \text{ lb/ton} &= 490,000 \text{ lb SO}_2/\text{year} \\ 490,000 \text{ lb SO}_2/\text{year} \div 2 &= 245,000 \text{ lb S/year} \quad \text{S} + \text{O}_2 = \text{SO}_2 \quad [32 + 2(16) = 64] \\ 240,000 \text{ lb S/year} \div 0.78 \text{ (22\% of S retained in final product)} &= 314,103 \text{ lb S/year} \\ 314,103 \text{ lb S/year} \div 4 \text{ (4 quarters in year)} &= 78,525 \text{ lb S/quarter} \end{aligned}$$

This amount of sulfur will be determined by multiplying the tons of raw material (dry weight) times the quarterly weighted average of the raw materials. This facility shall maintain records of the following:

- Weekly weighted average sulfur content of raw materials in percent;
- Weekly production rate for each kiln;
- Weekly weight of sulfur in raw materials in tons; and
- Quarterly weight of sulfur in raw materials in tons.

These records shall be retained in the facility files for at least two (2) years and shall be made available for inspection upon request of the Director of any authorized representative of the Director during normal business hours.

This facility shall submit quarterly reports to the Canton City Health Department, Division of Air Pollution Control, 420 Market Avenue North, Canton, Ohio 44702, which lists:

- Weekly weighted average sulfur content of raw materials in percent;
- Weekly production rate for each kiln;
- Weekly weight of sulfur in raw materials in tons; and
- Quarterly weight of sulfur in raw materials in tons.

These quarterly reports shall be submitted by February 15, May 15, August 15 and November 15 of each year and shall cover the previous calendar quarter.

2. The stack servicing kilns P004, P005 and P006 shall be a minimum height of 45 meters from ground level.
3. The only fuel used in these sources shall be natural gas.

4. 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
3745-18-06(D)(1)

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

5. The combined emissions from sources P004 (Kiln #1), P005 (Kiln #2) and P006 (Kiln #3) shall not exceed the following:

62 lbs. SO ₂ /hour	* 9.06 lbs. FL/hour	56 tons NO _x /year
10,416 lbs. SO ₂ /week	* 39.68 tons FL/year	18 lbs. PM/hour
245 tons SO ₂ /year	12.82 lbs. NO _x /hour	78.84 tons PM/year

* Both gaseous and particulate fluorides as captured by Test Method 13A.

6. Performance Test Requirements

The permittee shall conduct, or have conducted, within six months of the expiration of this Permit to Operate, performance testing on the air contaminant sources in accordance with procedures approved by the agency. Two copies of the written report shall be submitted and signed by the person responsible for the test, describing the test procedures followed and the results of such tests. The Director, or an Ohio EPA representative, shall be allowed to witness the tests, examine testing equipment and require the acquisition or submission of data and information necessary to assure that the source data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

A completed Intent to Test notification form shall be submitted to the Canton City Health Department, Division of Air Pollution Control, 420 Market Avenue North, Canton, Ohio 44702-1544. This notice shall be made thirty (30) days in advance and shall specify the source operating parameters, the proposed test procedures and the time, date, place and person(s) conducting such tests.

Two copies of the test results shall be submitted within thirty (30) days after the completion of the performance test.

Tests shall be performed for the following sources and pollutants:

<u>Source</u>	<u>Pollutants</u>
P004, P005, P006	SO ₂ , FL, NO _x , PM

Test Method 13A should be employed to measure FL emissions.

Test Method 6 should be employed to measure SO₂ emissions. This test shall be run with all three kilns (#1, #2, #3) operating. This test shall be run at or near the maximum production capacity of all three kilns.

This stack test shall include an analysis of the sulfur content of the raw materials (clay and shale).