



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.  
Columbus, Ohio 43266-0149  
(614) 644-3020  
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George V. Voinovich  
Governor

Donald R. Schregardus  
Director

Re: Permit to Install  
Stark County  
Application No: 15-1146  
NSPS

CERTIFIED MAIL

January 25, 1995

METROPOLITAN INDUSTRIES  
PHILIP MCGUINNESS  
P.O. BOX 9240  
CANTON, OH 44707

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



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## Permit to Install Terms and Conditions

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Application No. 15-1146  
APS Premise No. 1576051149  
Permit Fee: \$3000.00

Name of Facility: METROPOLITAN INDUSTRIES

Person to Contact: PHILIP MCGUINNESS

Address: P.O. BOX 9240  
CANTON, OH 44707

Location of proposed source(s): 1201 MILLERTON RD. SE  
CANTON TWP., OHIO

Description of proposed source(s):  
GRINDING PLANT FOR FLOOR TILE PROD.

Date of Issuance: January 25, 1995

Effective Date: January 25, 1995

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

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Director

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES(S)

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to

the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

#### PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

#### PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

#### APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

#### BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

#### NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

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 METROPOLITAN INDUSTRIES 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 &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
F002 (Modification)	Raw Material Receiving: Truck Dumping, Conveying, and Transfer of Shale and Fireclay	Fabric filter, watering in truck dump hopper, and See Additional Special Terms and Conditions 1-9.	40 CFR Part 60, NSPS, Subpart 000 3745-17-08 3745-17-11 3745-31-02 3745-31-05 3745-35-02	1.50 lbs PM/hr 0.416 TPY PM Limit of 111,000 tons of raw material processed per calendar year. VE Limits - See Additional Special Terms and Conditions 6, 7, and 10.
P011	Primary Crushing & Storage: Crushing w/ Double Roll Crusher, Continuous Loading into Storage Piles, Load Out using Front End Loader	Fabric filter, crushing and storage to be inside a total enclosure, and See Additional Special Terms and Conditions 1-9.	40 CFR Part 60, NSPS, Subpart 000 3745-17-08 3745-17-11 3745-31-02 3745-31-05 3745-35-02	0.61 lb PM/hr 0.339 TPY PM Limit of 111,000 tons of raw material crushed per calendar year. VE Limits - See Additional Special Terms and Conditions 6 & 10.
P012	Secondary Grinding & Screening: Grinding w/Two (2) Dry Grinding Pans & Screening w/	Fabric filter, grinding & screening to be inside a total enclosure, & See Additional	40 CFR Part 60, NSPS, Subpart 000 3745-17-08 3745-17-11 3745-31-02 3745-31-05	2.39 lbs PM/hr 2.942 TPY PM Limit of 111,000 tons of crushed material ground & screened per calendar year.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P012 (cont'd)	Eight (8) Heated Vibro-Screens	Special Terms and Conditions 1-9	3745-35-02	VE Limits - See Additional Special Terms and Conditions 6 & 10.

SUMMARY  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	3.697

(All of the Permit Allowable Mass Emissions and Control/Usage Requirements are based on the operation of both the Phase I and Phase II equipment).

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source No.</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F002 (Modi- fication)	Raw Material Receiving	000
P011	Primary Crushing & Storage	000
P012	Secondary Grinding & Screening	000

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P.O. Box 163669  
Columbus, OH 43216-3669

and Canton Air Pollution Control  
420 Market Ave. N., City Hall  
Canton, Ohio 44702-1544

#### 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 been 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. Metropolitan Industries shall be limited to receiving, crushing, and grinding and screening, 111,000 tons of material per calendar year in the grinding plant.

2. The installation of the equipment in this Permit To Install (PTI) shall be completed in two phases, Phase I and Phase II. The Phase I equipment is intended for the production of ground shale which will pass through a size eighteen mesh for use in producing ceramic floor tile. The Phase I equipment shall be installed prior to the Phase II equipment. The Phase II equipment is intended for the production of ground fireclay which will pass through a size eighteen mesh for use in producing ceramic floor tile. The Phase II equipment shall be installed by June 30, 1997 at the latest. If the Phase II equipment is not installed by June 30, 1997, the installation of the Phase II equipment at a date later than June 30, 1997 shall require a new PTI.

Permits To Operate (PTO's) will be issued for Ohio EPA Sources F002, P011, and P012 for the Phase I equipment only when the Phase I equipment is installed and operated according to this PTI and Metropolitan Industries has met the requirements of Ohio Administrative Code (OAC) 3745-35. PTO's for Ohio EPA Sources P011 and P012 for both the Phase I and Phase II equipment will be issued when the Phase I and Phase II equipment is installed and operated according to this PTI and Metropolitan Industries meets the requirements of OAC 3745-35.

3. The specific equipment to be installed during Phase I shall be:
  - A. Source F002: The water spray system on the existing shale truck dump receiving hopper, apron feed conveyor No. 1, and modifications to existing conveyors or transfers to existing conveyors as required.
  - B. Source P011: The equipment described in the PTI application flow diagram for Source P011 for Phase I. This equipment includes the crusher, belt conveyors 2 through 5, modifications to existing conveyors or transfer to existing conveyors as required, storage bins A, B, C, D, and E, the cleanout hopper, the totally enclosed building for the crusher, and the second totally enclosed building for the rest of the equipment.
  - C. Source P012: The equipment described in the PTI application flow diagram for Source P012 for Phase I. This equipment includes the belt conveyors 6a, 6b, and 7 through 18, modifications to existing conveyors or transfer to existing conveyors as required, the cleanout hopper, the BaCO<sub>3</sub> feeder, and the 28,000 cfm fabric filter. This equipment shall be installed in the second totally enclosed building described in Additional Special Term and Condition 3(B).

4. The specific equipment to be installed during Phase II shall be:
  - A. Source F002: There is no new equipment to be installed during Phase II.
  - B. Source P011: The equipment described in the PTI application flow diagram for Source P011 for Phase II. This equipment includes belt conveyors 4F and 5F, modifications to existing conveyors or transfer to existing conveyors as required, storage bins AF, BF, CF, DF, and EF, cleanout hopper F, and the totally enclosed building for the Phase II equipment.
  - C. Source P012: The equipment described in the PTI application flow diagram for Source P012 for Phase II. This equipment includes the belt conveyors 6aF, 6bF, and 7F through 18F, modifications to existing conveyors or transfer to existing conveyors as required, the cleanout hopper, the BaCO<sub>3</sub> feeder F, and the 28,000 cfm fabric filter F. This equipment shall be installed in the totally enclosed building described in Additional Special Term and Condition 4(B).
5. Ohio EPA Source F002 has a current Permit To Operate issued on October 1994. This PTI modifies Ohio EPA Source F002. After the Phase I sources included in the PTI application are installed, Source F002 shall be operated according to this PTI.
6. Portions of Ohio EPA Sources F002, P011, and P012 shall be serviced by fabric filters whose collection efficiencies shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the points of capture to the extent possible with good engineering design. The portions which shall be serviced by fabric filters shall be as the PTI application flow diagrams indicate. For Ohio EPA source F002, the truck dump hopper shall be serviced by the truck dump fabric filter. For Ohio EPA Source P011, the double roll crusher shall be serviced by the truck dump fabric filter. For Ohio EPA Source P012, belt conveyors 8 through 18, the grinder, screens 1 through 4 and the cleanout hopper shall be serviced by the 28,000 cfm fabric filter (phase I portion). In addition, for Ohio EPA Source P012, belt conveyors 8F through 18F, grinder F, and the cleanout hopper shall be serviced by the 28,000 cfm fabric filter F (phase II portion). The fabric filters shall be vented inside the buildings. There shall be no visible emissions at the outlets of the fabric filters.
7. For Ohio EPA Source F002, during dumping of raw materials into the truck dump hopper, there shall be no visible particulate emissions which exceed ten percent (10%) opacity as a three minute average with compliance to be determined using Test Method 9 as defined in OAC 3745-17-03(B)(3).

8. For Ohio EPA Source P011, the crushing and storage operations shall take place within totally enclosed buildings. For Ohio EPA Source P012, grinding and screening operations shall take place within a totally enclosed building.
9. Any belt conveyors which are not contained within a totally enclosed building shall be covered.
10. Additional requirements of 40 CFR, Part 60, Subpart 000, Standards of Performance for Nonmetallic Mineral Processing Plants (Terms are defined as in 40 CFR Part 60):
  - A. Requirements for affected facilities enclosed in a building: There shall be no vents in the buildings which contain affected facilities, as was described in the Permit To Install application.
  - B. Requirements for affected facilities not enclosed in a building: As described in the Permit To Install application, conveyor belts shall be the only affected facilities which are not enclosed within a building. For any conveyor belts which are not enclosed within a building, on and after the sixtieth day after achieving the maximum production rate at which the belt conveyor will be operated, but not later than 180 days after the initial start up of the belt conveyor, there shall be no fugitive emissions which exhibit greater than ten percent (10%) opacity. Compliance with this Additional Special Term and Condition shall be determined using Method 9 and the procedures in 40 CFR Section 60.11.
  - C. Note that the truck dump hopper which is part of Ohio EPA Source F002 is not subject to 40 CFR, Part 60, Subpart 000, and the opacity limit for the truck dump hopper is as defined in Additional Special Term and Condition Number 7.