



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MAHONING COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 02-17368

DATE: 1/21/2003

Youngstown Iron and Metal
Kimberly Check
100 Division St. Ext
Youngstown, OH 44510

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 Review Appeals Commission 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 within thirty (30) days after the notice of the Directors 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, Ohio 43215

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

NEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 1/21/2003
Effective Date: 1/21/2003**

FINAL PERMIT TO INSTALL 02-17368

Application Number: 02-17368
APS Premise Number: 0250110966
Permit Fee: **\$800**
Name of Facility: Youngstown Iron and Metal
Person to Contact: Kimberly Check
Address: 100 Division St. Ext
Youngstown, OH 44510

Location of proposed air contaminant source(s) [emissions unit(s)]:
**100 Division St. Ext
Youngstown, Ohio**

Description of proposed emissions unit(s):
Mobile mill scale screening plant.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(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 emissions unit(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 emissions unit(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

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable 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 air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of 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 the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

9. Construction of New Sources(s)

The proposed emissions unit(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 cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(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 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 cannot meet the requirements of this permit or cannot meet applicable standards.

10. 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.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. 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.

13. Source Operation and Operating Permit Requirements 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. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

Youngstown Iron and Metal
 PTI Application: 02-17368
 Issued: 1/21/2003

Facility ID: 0250110966

14. 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.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	6.79
SO ₂	0.44
OC	0.52
NO _x	6.66
CO	1.44

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F001 - 20 tons per hour Screen-All portable mill scale screener and load in/out points	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(B)	
	OAC rule 3745-17-08(B)	OAC rule 3745-17-07(A)(1)
49 HP diesel combustion engine	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(a)

OAC rule 3745-18-06(G)

OAC rule 3745-21-07(B)

OAC rule 3745-23-06(B)

Applicable Emissions
Limitations/Control Measures

Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity, as a three-minute average.

Particulate emissions (PE) shall not exceed 1.44 lbs/hr and 6.31 TPY.

The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Section A.2.b).

The visible emission limitation specified by this rule is equivalent to the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The control requirements specified by this rule are less stringent than the control requirements established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

PE from the combustion engine shall not exceed 0.11 lb/hr and 0.48 TPY.

Sulfur dioxide (SO₂) emissions from the combustion engine shall not

exceed 0.10 lb/hr and 0.44 TPY.

Nitrogen oxide (NO_x) emissions from the combustion engine shall not exceed 1.52 lbs/hr and 6.66 TPY.

Carbon monoxide (CO) emissions from the combustion engine shall not exceed 0.33 lb/hr and 1.44 TPY.

Organic compound (OC) emissions from the combustion engine shall not exceed 0.12 lb/hr and 0.52 TPY.

See Section B.1. below.

The visible emission limitation specified by this rule is equivalent to the visible emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The PE limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See Section A.2.c.

See Section A.2.b..

See Section A.2.b.

2. Additional Terms and Conditions

- 2.a** The hourly and annual particulate emission limitations are based upon the emissions unit's potential to emit. Therefore, no hourly or annual records are required to demonstrate compliance with these limits.
- 2.b** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-07(B) and 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit-to-install (PTI).
- 2.c** This combustion engine is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).

B. Operational Restrictions

- 1.** The permittee shall use only diesel fuel (number 2 fuel oil) with a maximum sulfur content of 0.5 percent by weight for combustion in this emissions unit.

C. Monitoring and/or Record keeping Requirements

- 1.** For each day during which the permittee burns a fuel other than diesel fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in the combustion engine. The permittee shall also maintain documentation of the sulfur content of all fuels received.

D. Reporting Requirements

- 1.** The permittee shall submit deviation (excursion) reports that identify each day during which a fuel other than diesel fuel was burned in the combustion engine, and also each record identifying an exceedance of 0.5% sulfur content, by weight.
- 2.** The deviation (excursion) reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

E. Testing Requirements

- 1.** Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Unit ID: F001

- a. Emission Limitation:
Visible particulate emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.
- Applicable Compliance Method:
Compliance with the above visible emission limitation shall be determined by USEPA's Reference Method 9 in 40 CFR, Part 60, Appendix A.
- b. Emission Limitation:
Particulate emissions shall not exceed 1.44 lbs/hr.
- Applicable Compliance Method:
Compliance with the above hourly particulate emission limitation shall be determined using the emission factors for screening operations in AP-42, "Compilation of Air Pollutant Emission Factors", Chapter 11.19.2 (Crushed Stone Processing), Fifth Edition, dated 1/1995 and for truck dumping operations in AP-42, Chapter 13.2.4 (Aggregate Handling and Storage Piles), Fifth Edition, dated 1/1995.
- c. Emission Limitation:
Particulate emissions shall not exceed 6.31 TPY.
- Applicable Compliance Method:
Compliance with the above annual particulate emission limitation shall be determined by multiplying the hourly allowable emission rate (1.44 lbs/hr) by 8,760 hours and dividing by 2,000 lbs/ton.
- d. Emission Limitation:
PE from the combustion engine shall not exceed 0.11 lb/hr and 0.48 TPY.
- Applicable Compliance Method:
The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", Table 3.3-1 (10/96). Compliance with the hourly emission limitation shall be determined by multiplying the 0.00220 lb/hp-hr emission factor by the 49 hp rating of the unit. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.
- e. Emission Limitation:
SO₂ emissions from the combustion engine shall not exceed 0.10 lb/hr and 0.44 TPY.
- Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", Table 3.3-1 (10/96). Compliance with the hourly emission limitation shall be determined by multiplying the 0.00205 lb/hp-hr emission factor by the 49 hp rating of the unit. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- f. Emission Limitation:
NO_x emissions from the combustion engine shall not exceed 1.52 lbs/hr and 6.66 TPY.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", Table 3.3-1 (10/96). Compliance with the hourly emission limitation shall be determined by multiplying the 0.031 lb/hp-hr emission factor by the 49 hp rating of the unit. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- g. Emission Limitation:
CO emissions from the combustion engine shall not exceed 0.33 lb/hr and 1.44 TPY.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", Table 3.3-1 (10/96). Compliance with the hourly emission limitation shall be determined by multiplying the 0.00668 lb/hp-hr emission factor by the 49 hp rating of the unit. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- h. Emission Limitation:
OC emissions from the combustion engine shall not exceed 0.12 lb/hr and 0.52 TPY.

Applicable Compliance Method:

The emission limitations were based upon emission factors from AP-42, "Compilation of Air Pollutant Emission Factors", Table 3.3-1 (10/96). Compliance with the hourly emission limitation shall be determined by multiplying the 0.00247 lb/hp-hr emission factor by the 49 hp rating of the unit. Compliance with the annual emission limitation shall be determined by multiplying the hourly emission limitation by 8760 hrs/yr and dividing by 2000 lbs/ton.

- i. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined by USEPA's Reference Method 9 in 40 CFR, Part 60, Appendix A.

F. Miscellaneous Requirements

1. Notice to Relocate a Portable or Mobile Emissions Unit

Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

- a. The portable emissions unit is equipped with the best available technology for such portable emissions unit;
- b. The portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. The applicant has provided proper notice of intent to relocate the portable emissions unit to NEDO and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of thirty days prior to the scheduled relocation; and
- d. In NEDO's and the appropriate Ohio EPA District Office's or local air agency's judgement, the proposed site is acceptable under OAC rule 3745-15-07.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

- a. The permittee of the portable emissions unit possesses an effective Ohio EPA PTI, PTO or registration status;
- b. The portable emissions unit is equipped with best available technology;
- c. The portable emission unit owner has identified the proposed site to Ohio EPA;

- d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
 - e. A public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
 - f. The owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
 - g. The portable emissions unit owner has provided Ohio EPA with fifteen days written notice of the relocation.
- 3.** Any site approvals issued by Ohio EPA, pursuant to F.2. above, shall be valid for no longer than three years and are subject to renewal.

In order for NEDO and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with NEDO and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, NEDO and/or the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

NEW SOURCE REVIEW FORM B

PTI Number: 02-17368 Facility ID: 0250110966

FACILITY NAME Youngstown Iron and Metal

FACILITY DESCRIPTION Mobile mill scale screening plant CITY/TWP Youngstown

SIC CODE 5093 SCC CODE 30300999 EMISSIONS UNIT ID F001

EMISSIONS UNIT DESCRIPTION 20 tons per hour Screen-All portable mill scale screener

DATE INSTALLED PTI issuance

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	1.55 lbs/hr	1.61	1.55 lbs/hr	6.79
PM ₁₀					
Sulfur Dioxide	attainment	0.10 lb/hr	0.10	0.10 lb/hr	0.44
Organic Compounds	attainment	0.12 lb/hr	0.12	0.12 lb/hr	0.52
Nitrogen Oxides	attainment	1.52 lbs/hr	1.58	1.52 lbs/hr	6.66
Carbon Monoxide	attainment	0.33 lb/hr	0.34	0.33 lb/hr	1.44
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Visible particulate emissions of fugitive dust shall not exceed 20 percent opacity, as a three-minute average, Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, and compliance with terms and conditions of permit.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES X NO

IDENTIFY THE AIR CONTAMINANTS: