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Facility Name: **Metal Improvement Company Inc**

Application Number: **01-7331**

Date: **September 10, 1998**

GENERAL PERMIT CONDITIONS

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

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

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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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 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.

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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 filed no later than thirty days after commencement of operation.

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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Metal Improvement Company Inc** located in **Franklin** County. The emissions units 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.

No. 221 Super 36
allcase furnace

Ohio
EPA
Source
Number

Source
Identification
Description

P014

No. 220 Super 36
allcase furnace

P015
Cont'd

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emission limits.

BAT
Determination

Compliance
with
applicable
rules
and permitted
emission
limits.

Compliance
with
applicable
rules
and permitted

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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Applicable
Federal &
OAC Rules

3745-31-05
3745-17-07
3745-17-10

3745-31-05
3745-17-07
3745-17-10

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	Permit Allowable Mass Emissions and/or Control/Usage Requirements	PM/year 0.04 pound SO ₂ /hour 0.18 ton SO ₂ /year 0.38 pound NO _x /hour 0.90 ton NO _x /year 0.07 pound CO/hour, 0.18 ton CO/year, and visible particulate emissions shall not exceed 20 percent opacity as a 6 minute average during any 60 minute period		
	0.07 pound PM/hour, 0.32 ton PM/year 0.04 pound SO ₂ /hour 0.18 ton SO ₂ /year 0.38 pound NO _x /hour 0.90 ton NO _x /year 0.07 pound CO/hour, 0.18 ton CO/year, and visible particulate emissions shall not exceed 20 percent opacity as a 6 minute average during any 60 minute period			
	0.07 pound PM/hour, 0.32 ton			

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SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	0.6
SO ₂	0.4
NO _x	1.8
CO	0.4

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

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 **Ohio EPA, Central District Office, 3232 Alum Creek Drive, Columbus, OH 43207-3417.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled

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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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Compliance Determination

1. Emission Limitation

0.07 lb PM/hr; 0.32 ton PM/hr

Compliance Method

Compliance determination is based on fuel usage and AP-42 emission factors. The emission limits are based on 0.02 lb PM/MMBTU of fuel input. The calculated rates are based on reported maximum hourly usage rates.

SCC 1-04-022-01 factor: 3.0 lbs PM/MMft3

$3.0 \text{ lbs PM/MMft3} * 0.0037 \text{ MMft3/hr} = 0.01 \text{ lb/hr}$

$3.0 \text{ lbs PM/MMft3} * 17.42 \text{ MMft3/yr} * 1 \text{ ton}/2,000 \text{ lbs} = 0.03 \text{ ton PM/yr}$

2. Emission Limitation

0.07 lb CO/hr; 0.18 ton CO/yr

Compliance Method

SCC 1-04-022-01 factor: 20 lbs CO/MMft3

$20 \text{ lbs NO}_x\text{/MMft3} * 0.0037 \text{ Mmft3/hr} = 0.07 \text{ lb CO/hr}$

$20 \text{ lbs NO}_x\text{/MMft3} * 17.42 \text{ MMft3/yr} * 1 \text{ ton}/2,000 \text{ lbs} =$

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0.18 ton NO_x/yr

3. Emission Limitation

0.38 lb NO_x/hr; 0.9 ton NO_x/yr

Compliance Method

SCC 1-04-022-01 factor: 100 lbs NO_x/MMft³

100 lbs NO_x/MMft³ * 0.0037 Mmft³/hr = 0.37 lb NO_x/hr

100 lbs NO_x/MMft³ * 17.42 MMft³/yr * 1 ton/2,000 lbs =
0.87 ton NO_x/yr

4. Emission Limitation

0.02 lb OC/hr; 0.05 ton OC/yr

Compliance Method

SCC 1-04-022-01 factor: 5.3 lbs OC/MMft³

5.3 lbs OC/MMft³ * 0.0037 Mmft³/hr = 0.02 lb OC/hr

5.3 lbs NO_x/MMft³ * 17.42 MMft³/yr * 1 ton/2,000 lbs =
0.05 tons NO_x/yr

5. Emission Limitation

0.04 lb SO₂/hr; 0.18 ton SO₂/yr

Compliance Method

SCC 1-05-001-14 factor: 147 lbs SO₂/Mgallon

147 lbs SO₂/Mgallon * 0.0003 gallon/hr = 0.04 lb SO₂/hr

0.04 lb SO₂/hr * 8760 hrs/yr * 1 ton/2,000 lbs = 0.18
ton SO₂/yr