



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
GUERNSEY COUNTY
Application No: 06-06957**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 1/14/2003

Monogram Metals Inc.
Mike Miller
60800 Leyshon Dr.
Byesville, OH 43723

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

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 1/14/2003
Effective Date: 1/14/2003**

FINAL PERMIT TO INSTALL 06-06957

Application Number: 06-06957
APS Premise Number: 0630000105
Permit Fee: **\$800**
Name of Facility: Monogram Metals Inc.
Person to Contact: Mike Miller
Address: 60800 Leyshon Dr.
Byesville, OH 43723

Location of proposed air contaminant source(s) [emissions unit(s)]:
**60800 Leyshon Dr.
Byesville, Ohio**

Description of proposed emissions unit(s):
Modification of galvanizing line for increase in production. Chapter 31 modification superceding PTI 06-4568 issued November 1, 1995.

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 Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 recordkeeping 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.

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	10.6
Hydrogen Chloride	0.83

compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

1. The pressure drop across the primary scrubber shall be continuously maintained at a value of not less than 30 inches of water at all times while the emissions unit is in operation.
2. The primary scrubber water flow rate shall be continuously maintained at a value of not less than 46 gallons per minute at all times while the emissions unit is in operation.
3. The pH of the fugitive scrubber liquor shall be maintained at or above 7.5 S.U.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber exhaust stacks. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the primary scrubber, the primary scrubber water flow rate, and the pH of the fugitive scrubber liquor while the emissions unit is in operation. The monitoring devices and any recorder(s) shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the primary scrubber, in inches of water.
- b. The primary scrubber water flow rate, in gallons per minute.

- c. The pH of the fugitive scrubber liquor.
- d. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which:
 - a. identify all days during which any visible particulate emissions not representative of normal operations were observed from the scrubber exhaust stacks for this emissions unit; and
 - b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period. If no visible emissions are observed during a given period, the permittee shall submit a report which states that no visible emissions were observed during that period.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels specified above:
 - a. The static pressure drop across the primary scrubber.
 - b. The primary scrubber water flow rate.
 - c. The fugitive scrubber liquor pH.
3. The quarterly reports shall be submitted in accordance with the General Terms and Conditions contained in this permit.

E. Testing Requirements

Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

1. Emission Limitation:
PE from the primary scrubber exhaust stack shall not exceed 0.37 lb/hr.

Compliance Determination:

Compliance with the lb/hr emission limitation shall be demonstrated by the following one time calculation using the emission factor provided by the permittee, the maximum production rate, and the design capture and control efficiency for the primary scrubber (the permittee has

indicated that all stack particulate emissions are attributable to the primary scrubber). If required, the permittee shall demonstrate compliance with the mass emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

$\text{lb/hr PE} = \text{EF} \times \text{Maximum Production Rate} \times \text{Capture Efficiency} \times (1 - \text{Control Efficiency})$

Emission Factor (EF) = 0.001852 lb PE/lb steel galvanized

Maximum Production Rate = 11,000 lbs/hr steel galvanized

Capture Efficiency = 90%

Control Efficiency = 98%

$0.001852 \text{ lb PE/lb} \times 11000 \text{ lbs/hr} \times (0.9) \times (1 - 0.98) = 0.367 \text{ lb PE/hr}$

2. Emission Limitation:

Total PE shall not exceed 10.6 tons/yr.

Compliance Determination:

Compliance with the tons/yr emission limitation shall be demonstrated by the following one time calculation using the emission factor provided by the permittee, the maximum annual production, and the design capture and control efficiency for the primary scrubber.

$\text{Total PE (tons/yr)} = \text{EF} \times \text{Max. Annual Production} \times (1 - \text{Overall Control Efficiency}) \times 0.0005 \text{ ton/lb}$

Emission Factor (EF) = 0.001852 lb PE/lb steel galvanized

Maximum Annual Production = 11,000 lbs/hr steel galvanized x 8760 hrs/yr = 96,360,000 lbs/yr

Overall Control Efficiency = Capture Efficiency x Control Efficiency = 0.9 x 0.98 = 0.882 (88.2%)

$0.001852 \text{ lb PE/lb steel galvanized} \times 96360000 \text{ lbs/yr} \times (1 - 0.882) \times 0.0005 \text{ ton/lb} = 10.53 \text{ tons PE/yr}$

3. Emission Limitation:

Hydrogen chloride emissions from the fugitive scrubber exhaust stack shall not exceed 0.06 lb/hr.

Compliance Method:

Compliance with the lb/hr emission limitation shall be demonstrated by the following one time calculation using the emission factor based on a mass balance provided by the permittee, the maximum production rate, and the design capture and control efficiency for the fugitive scrubber (the permittee has indicated that all stack hydrogen chloride emissions are attributable to the fugitive scrubber). If required, the permittee shall demonstrate compliance with the mass emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 26.

lb/hr hydrogen chloride = EF x Max. Production Rate x Capture Efficiency x (1-Control Efficiency)

Emission Factor (EF) = 0.0001188 lb hydrogen chloride / lb steel galvanized based on mass balance

Maximum Production Rate = 11,000 lbs/hr steel galvanized

Capture Efficiency = 90%

Control Efficiency = 95%

0.0001188 lb hydrogen chloride / lb steel galvanized x 11000 lbs/hr x (0.9) x (1-0.95) = 0.06 lb/hr

4. Emission Limitation:

Total hydrogen chloride emissions shall not exceed 0.83 ton/yr.

Compliance Method:

Compliance with the ton/yr emission limitation shall be demonstrated by the following one time calculation using the emission factor based on a mass balance provided by the permittee, the maximum annual production, and the design capture and control efficiency for the scrubber.

Total hydrogen chloride (ton/yr) = EF x Max. Annual Production x (1-Overall Control Efficiency) x 0.0005 ton/lb

Emission Factor (EF) = 0.0001188 lb hydrogen chloride / lb steel galvanized

Maximum Annual Production = 11,000 lbs/hr steel galvanized x 8760 hrs/yr = 96,360,000 lbs/yr

Overall Control Efficiency = Capture Efficiency x Control Efficiency = 0.9 x 0.95 = 0.855 (85.5%)

0.0001188 lb hydrogen chloride / lb steel galvanized x 96360000 lbs/yr x (1-0.855) x 0.0005 ton/lb = 0.83 ton/yr

5. Emission Limitation:

Visible particulate emissions from the scrubber exhaust stacks shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon the visible particulate emission observations specified in Test Method 9.

F. Miscellaneous Requirements

None