



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
MONTGOMERY COUNTY**

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: 08-04238**

**DATE: 1/4/2001**

Hohman Plating & Mfg Inc  
Connie Bramel  
814 Hillrose Avenue  
Dayton, OH 45404-1199

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,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

RAPCA



**Permit To Install**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 08-04238**

Application Number: 08-04238  
APS Premise Number: 0857040217  
Permit Fee: **\$200**  
Name of Facility: Hohman Plating & Mfg Inc  
Person to Contact: Connie Bramel  
Address: 814 Hillrose Avenue  
Dayton, OH 45404-1199

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**814 Hillrose Ave**  
**Dayton, Ohio**

Description of proposed emissions unit(s):  
**sulfamate nickel line.**

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 are inadequate 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 prove to be inadequate 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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**Hohman Plating & Mfg Inc**  
**PTI Application: 08-04238**  
**Issued: 1/4/2001**

**Facility ID: 0857040217**

**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> |
|-------------------|----------------------|
| nickel            | 0.004                |
| hydrofluoric acid | 0.00004              |
| nitric acid       | 0.004                |
| sulfuric acid     | 0.000004             |

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

### A. Applicable Emissions Limitations and/or Control Requirements

- 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,<br/>and/or Equipment</u>   | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions<br/>Limitations/Control Measures</u>   |
|---|--------------------------------------|--|
| P038 - Sulfamate electrolytic nickel plating line, with packed bed scrubber and mesh pad controls | OAC rule 3745-31-05(A)(3)            | 0.001 lb/hour and 0.004 TPY nickel (as particulates)   |
|   |                                      | 0.00001 lb/hour and 0.00004 TPY hydrofluoric acid  |
|   |                                      | 0.001 lb/hour and 0.004 TPY nitric acid (as particulates)  |
|   |                                      | 0.000001 lb/hour and 0.000004 TPY sulfuric acid (as particulates)  |
|   |                                      | 0.002 lb/hour and 0.008 TPY particulates   |
|   |                                      | Visible emissions shall not exceed 10% opacity, as a six-minute average.   |
|   | OAC rule 3745-17-07(A)(1)            | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). |
|   | OAC rule 3745-17-11(B)(1)            | The emission limitation specified by this rule is less stringent than the  |

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**Hohman Plating & Mfg Inc**  
**PTI Application: 08-04228**  
**Issued**

**Facility ID: 0857040217**

**Emissions Unit ID: P038**

emission limitation established  
pursuant to OAC rule  
3745-31-05(A)(3).

**2. Additional Terms and Conditions**

**2.a** None

**B. Operational Restrictions**

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 2.5 inches of water at all times while the emissions unit is in operation.
2. The pH of the scrubber liquor shall be maintained within the range of 7 to 12.
3. The scrubber water flow rate shall be continuously maintained at a value of not less than 2 gallons per minute at all times while the emissions unit is in operation.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the static pressure drop across the scrubber, the pH of the scrubber liquor, and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.
2. The permittee shall collect and record the following information each day:
  - a. The pressure drop across the scrubber, in inches of water.
  - b. The pH of the scrubber liquor.
  - c. The scrubber water flow rate, in gallons per minute.
  - d. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

**D. Reporting Requirements**

1. In accordance with paragraph 3 of the General Terms and Conditions of this permit, 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:
  - a. The static pressure drop across the scrubber.

- b. The pH of the scrubber liquor.
- c. The scrubber water flow rate.

#### **E. Testing Requirements**

1. 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):
  - a. Emission Limitation -  
  
0.001 lb/hour nickel (as particulates)  
  
Applicable Compliance Method -  
  
Compliance shall be determined by the mass transfer of non-volatiles based on water evaporation equation (See E.2.). Ongoing compliance shall be based upon the established operating parameters for the packed bed scrubber control system.
  - b. Emission Limitation -  
  
0.004 TPY nickel (as particulates)  
  
Applicable Compliance Method -  
  
The 0.004 TPY emission limitation was developed by multiplying the 0.001 lb/hour emission rate by the maximum annual operating schedule of 8760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual emission limitation.
  - c. Emission Limitation -  
  
0.00001 lb/hour hydrofluoric acid  
  
Applicable Compliance Method -  
  
Compliance shall be determined by the mass transfer of non-volatiles based on water evaporation equation (See E.2.). Ongoing compliance shall be based upon the established operating parameters for the packed bed scrubber control system.

d. Emission Limitation -

0.00004 TPY hydrofluoric acid

Applicable Compliance Method -

The 0.00004 TPY emission limitation was developed by multiplying the 0.00001 lb/hour emission rate by the maximum annual operating schedule of 8760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual emission limitation.

e. Emission Limitation -

0.001 lb/hour nitric acid (as particulates)

Applicable Compliance Method -

Compliance shall be determined by the mass transfer of non-volatiles based on water evaporation equation (See E.2.). Ongoing compliance shall be based upon the established operating parameters for the packed bed scrubber control system.

f. Emission Limitation -

0.004 TPY nitric acid (as particulates)

Applicable Compliance Method -

The 0.004 TPY emission limitation was developed by multiplying the 0.001 lb/hour emission rate by the maximum annual operating schedule of 8760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual emission limitation.

g. Emission Limitation -

0.000001 lb/hour sulfuric acid (as particulates)

Applicable Compliance Method -

Compliance shall be determined by the mass transfer of non-volatiles based on water evaporation equation (See E.2.). Ongoing compliance shall be based upon the established

operating parameters for the packed bed scrubber control system.

h. Emission Limitation -

0.000004 TPY sulfuric acid (as particulates)

Applicable Compliance Method -

The 0.000004 TPY emission limitation was developed by multiplying the 0.000001 lb/hour emission rate by the maximum annual operating schedule of 8760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual emission limitation.

i. Emission Limitation -

0.002 lb/hour particulates

Applicable Compliance Method -

Compliance shall be the sum of the nickel, nitric acid, and sulfuric acid emission rates as determined using the mass transfer of non-volatiles based on water evaporation equation (See E.2.)

j. Emission Limitation -

0.008 TPY particulates

Applicable Compliance Method -

The 0.008 TPY emission limitation was developed by multiplying the 0.002 lb/hour emission rate by the maximum annual operating schedule of 8760 hours/year. Therefore, provided compliance is shown with the hourly limitation, compliance is also shown with the annual emission limitation.

k. Emission Limitation -

10% opacity, as a six-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with the procedures specified in OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.

2. The mass transfer of non-volatiles based on water evaporation equation used to determine compliance with the hourly allowable emission rates is the following:

$$E = \text{Tank Area} (J_d v / S_c^{1.5}) (P_{\text{sat}} - P) (MW/RT) C_i$$

|        |                  |  |
|--------|------------------|--|
| Where: | Tank area        | area of plating tank, in square feet     |
|        | $J_d$            | Colburn J-Factor of 0.005, dimensionless |
|        | $v$              | air velocity across the tank, in ft/hour |
|        | $S_c$            | Schmidt number of 0.612, dimensionless   |
|        | $P_{\text{sat}}$ | saturated vapor pressure, in atm         |
|        | $P$              | ambient vapor pressure, 0.0123 atm       |
|        | MW               | molecular weight of water, 18 lb/lb-mol  |

|                |  |
|----------------|--|
| R              | Ideal gas constant, 0.73 cu ft-atm/R-lb mol              |
| T              | temperature of plating bath, Rankine                     |
| C <sub>i</sub> | concentration of tank constituent (mass fraction), lb/lb |

**F. Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04238 Facility ID: 0857040217

FACILITY NAME Hohman Plating & Mfg Inc

FACILITY DESCRIPTION sulfamate nickel line. CITY/TWP Dayton

SIC CODE 3471 SCC CODE 3-09-010-98 EMISSIONS UNIT ID P038

EMISSIONS UNIT DESCRIPTION Sulfamate electrolytic nickel plating line, with packed bed scrubber and mesh pad control

DATE INSTALLED March 1, 2001

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              | 0.002 lb/hour (sum of nickel, nitric acid, and sulfuric acid) | 0.008 TPY (sum of nickel, nitric acid, and sulfuric acid) | 0.002 lb/hour (sum of nickel, nitric acid, and sulfuric acid) | 0.008 TPY (sum of nickel, nitric acid, and sulfuric acid) |
| PM <sub>10</sub>   |                         |   |   |   |   |
| Sulfur Dioxide     |                         |   |   |   |   |
| Organic Compounds  |                         |   |   |   |   |
| Nitrogen Oxides    |                         |   |   |   |   |
| Carbon Monoxide    |                         |   |   |   |   |
| Lead               |                         |   |   |   |   |
| Other: Air Toxics  |                         | 0.001 lb/hour nickel  | 0.004 TPY nickel  | 0.001 lb/hour nickel  | 0.004 TPY nickel  |
|                    |                         | 0.00001 lb/hour HF  | 0.00004 TPY HF  | 0.00001 lb/hour HF  | 0.00004 TPY HF  |
|                    |                         | 0.001 lb/hr nitric acid                                       | 0.004 TPY nitric acid                                     | 0.001 lb/hr nitric acid                                       | 0.004 TPY nitric acid                                     |
|                    |                         | 0.000001 lb/hour sulfuric acid                                | 0.000004 TPY sulfuric acid                                | 0.000001 lb/hour sulfuric acid                                | 0.000004 TPY sulfuric acid                                |

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

**BAT is compliance with the applicable OAC rules and specified allowable mass emission rates; monitoring and recording of scrubber operating parameters; reporting.**

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 contaminants 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:

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04238 Facility ID: 0857040217

FACILITY NAME Hohman Plating &amp; Mfg Inc

FACILITY DESCRIPTION sulfamate nickel line. CITY/TWP Dayton

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

Please fill out the following. If the checkbox does not work, replace it with an 'X'

|   | <u>Electronic</u>                   | <u>Additional information File Name Convention (your PTI # plus this letter)</u> | <u>Hard Copy</u>         | <u>None</u>                         |
|---|-------------------------------------|--|--------------------------|-------------------------------------|
| <u>Calculations (required)</u>                | <input checked="" type="checkbox"/> | 0804238c.wpd   | <input type="checkbox"/> |                                     |
| <u>Modeling form/results</u>                  | <input type="checkbox"/>            | 0000000s.wpd   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <u>PTI Application (complete or partial)*</u> | <input type="checkbox"/>            | 0000000a.wpd   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <u>BAT Study</u>                              | <input type="checkbox"/>            | 0000000b.wpd   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <u>Other/misc.</u>                            | <input type="checkbox"/>            | 0000000t.wpd   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

Hohman Plating & Manufacturing is a manufacturer of plated metal parts. Hohman Plating is located in Dayton, Montgomery County. This PTI is for the installation of an electrolytic nickel plating line to meet the increased demands of their customers.

The applicable rule for this plating line is OAC rule 3745-31-05(A)(3) which establishes allowable emissions in accordance with the BAT requirements. Allowable emissions are 0.001 lb/hour and 0.004 TPY nickel (as particulates); 0.00001 lb/hour and 0.00004 TPY hydrofluoric acid (HF); 0.001 lb/hour and 0.004 TPY nitric acid (as particulates); and 0.000001 lb/hour and 0.000004 TPY sulfuric acid (as particulates).

The sum of the nickel, nitric acid, and sulfuric acid emission rates as particulates (0.002 lb/hour) are less than the particulate limitation in accordance with OAC rule 3745-17-11(B)(1) of 0.551 lb/hour. OAC rule 3745-17-07(A)(1) is also applicable to this emissions unit and the visible emission limitation has been established at 10% opacity, as a six-minute average, in accordance with the BAT requirements of OAC rule 3745-31-05(A)(3).

The plating tanks in this line are vented to a packed bed scrubber and mesh pad control system. The permittee shall monitor the pressure drop across the scrubber, the pH of the scrubber liquor, and the scrubber water flow rate to ensure proper operation of the control system. Any deviations from the specified operating ranges of these parameters shall be reported each quarter.

Emissions were calculated using the mass transfer of non-volatiles, based on the evaporation of water equation. This equation conservatively assumes that the non-volatile constituents of the tank are emitted (evaporate) at the same rate as water.

**NEW SOURCE REVIEW FORM B**

PTI Number: 08-04238 Facility ID: 0857040217

FACILITY NAME Hohman Plating &amp; Mfg Inc

FACILITY DESCRIPTION sulfamate nickel line. CITY/TWP Dayton

Modeling to demonstrate compliance with the Air Toxics Policy was not required for this emissions unit because the maximum annual emissions for each toxic compound is less than 1.0 TPY. The standard language for emissions units emitting an air toxic pollutant at an emission rate of less than 1.0 TPY has been included in the terms and conditions for this permit.

BAT is compliance with the applicable OAC rules and specified allowable mass emission rates; monitoring and recording the scrubber operating parameters; reporting.

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or  Netting Determination  
Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

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

| <u>Pollutant</u>  | <u>Tons Per Year</u> |
|-------------------|----------------------|
| nickel            | 0.004                |
| hydrofluoric acid | 0.00004              |
| nitric acid       | 0.004                |
| sulfuric acid     | 0.000004             |