



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MONTGOMERY 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: 08-04767

Fac ID: 0857043277

DATE: 6/6/2006

Ernst and Moore Metal Technologies
Ken Kirves
2929 Kreitzer Road
Dayton, OH 454391643

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

RAPCA



**Permit To Install
Terms and Conditions**

**Issue Date: 6/6/2006
Effective Date: 6/6/2006**

FINAL PERMIT TO INSTALL 08-04767

Application Number: 08-04767
Facility ID: 0857043277
Permit Fee: **\$200**
Name of Facility: Ernst and Moore Metal Technologies
Person to Contact: Ken Kirves
Address: 2929 Kreitzer Road
Dayton, OH 454391643

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2929 Kreitzer Rd.
Dayton, Ohio**

Description of proposed emissions unit(s):
batch metal degreaser.

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

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

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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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

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.

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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>
perchloroethylene	1.56

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.

Operations, Property, and/or Equipment - (L001) - closed loop batch vapor degreaser

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-09(O)(3) and 40 CFR Part 63 Subpart T.
40 CFR Part 63 Subpart T	see section A.2.c.
OAC rule 3745-21-09(O)(3)	This emissions unit is exempt from the volatile organic compound limitations established in OAC rule 3745-21-09(O)(3) pursuant to OAC rule 3745-21-09(O)(6)(b).

2. Additional Terms and Conditions

- 2.a The permittee shall ensure the solvent cleaning machine contains only clean liquid solvent on the first day of every month and is filled to the same fill-line. The monthly emissions shall be calculated using the records of all solvent additions, deletions, and recoveries from each month.
- 2.b The permittee shall maintain a log of solvent additions and deletions for the solvent cleaning machine.
- 2.c Emissions of halogenated HAP solvent shall not exceed the 3-month rolling average limit of 260.56 pounds per month, as determined in Table 6 of 63.464(a)(2).

B. Operational Restrictions

1. On the first operating day of every month the permittee shall ensure that the solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soils. A fill line must be indicated during the first month the measurements

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are made. The solvent level within the machine must be returned to the same fill line each month, immediately prior to calculating monthly emissions and/or the overall cleaning system's control efficiency. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain the following records either in electronic or written form for a period of five years:
 - a. the dates and amounts of solvent that are added to the solvent cleaning machine;
 - b. the solvent composition of wastes removed from the cleaning machines using the procedures described in the "*Testing Requirements*" section of this permit; and
 - c. calculation sheets showing how the monthly emissions and the rolling 3-month average emissions of halogenated solvent from the solvent cleaning machine were determined, as described in the "*Testing Requirements*" section of this permit, and the results of all calculations.

D. Reporting Requirements

1. The permittee shall submit an initial statement of compliance to the regulating agency no later than 150 days following startup of the unit. The statement shall include the following information:
 - a. a description of the method used to determine the cleaning capacity and the results; and
 - b. the results of the first 3-month average of HAP emission calculations.
2. The permittee shall submit an annual solvent emission report by February 1 of each year, which shall cover the previous calendar year and shall contain the following information:
 - a. the size and type of the solvent cleaning machine, including if it has a solvent/air interface area or is using cleaning capacity;

Emissions Unit ID: **L001**

- b. the average monthly solvent; and
- c. the 3-month monthly rolling average HAP emission estimates, calculated each month using the method as described in the standard and/or the "*Testing Requirements*" section of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitation:
Emissions of halogenated HAP solvent shall not exceed 260.56 lbs/month as a 3-month rolling average

Applicable Compliance Method

Using the records of all solvent additions and deletions from the previous month, the permittee shall calculate emissions using the following equation:

$$E_n = SA_i - LSR_i - SSR_i$$

where:

E_n = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent monthly reporting period i (kilograms of solvent per month)

SA_i = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent monthly reporting period i (kilograms of solvent per month)

LSR_i = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent monthly reporting period i (kilograms of solvent per month)

* SSR_i = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine in solid waste, during the most recent monthly reporting period i (kilograms of solvent per month)

* The permittee shall determine SSR_i from tests conducted using reference method 25d or from engineering calculations included in the compliance report.

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The permittee shall determine the monthly rolling average, EA, for the 3-month period ending with the most recent month's reporting period using the following equation:

$$EA_n = (\sum_{j=1}^3 E_n) / 3, \text{ where the summation is from } j=1 \text{ to } j=3$$

where:

EA_n = the average halogenated HAP solvent emissions over the preceding 3 monthly reporting periods (kilograms of solvent per month)

E_n = halogenated HAP solvent emissions for each month (j) for the most recent 3 monthly reporting periods (kilograms of solvent per month)

$j=1$ = the most recent monthly reporting period

$j=2$ = the monthly reporting period immediately prior to $j=1$

$j=3$ = the monthly reporting period immediately prior to $j=2$

b. Emission Limitation:

Emissions of halogenated HAP solvent shall not exceed 1.56 tons/yr

Applicable Compliance Method:

Compliance shall be based upon the record keeping and using the formula as specified in section E.1.a and shall be the sum of the 12 monthly solvent emissions rates for the calendar year and dividing by 2000 lbs/ton.

F. Miscellaneous Requirements

None