



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

Mailing Address:

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

**RE: FINAL PERMIT TO INSTALL
LAKE COUNTY
Application No: 02-19474
Fac ID: 0243161230**

CERTIFIED MAIL

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

DATE: 12/16/2004

Fusion, Incorporated
Ray Heidecker
4658 East 355th Street
Willoughby, OH 44094

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

NEDO

Lake County GHD



Permit To Install
Terms and Conditions

Issue Date: 12/16/2004
Effective Date: 12/16/2004

FINAL PERMIT TO INSTALL 02-19474

Application Number: 02-19474
Facility ID: 0243161230
Permit Fee: **\$1600**
Name of Facility: Fusion, Incorporated
Person to Contact: Ray Heidecker
Address: 4658 East 355th Street
Willoughby, OH 44094

Location of proposed air contaminant source(s) [emissions unit(s)]:
4711 Topps Industrial Parkway
Willoughby, Ohio

Description of proposed emissions unit(s):
Chapter 31 modification to PTI 02-4444 issued in 1989 to allow for increased production.

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 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 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.

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	59.32
Lead	8.28

operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

2. The permit to install for this emissions unit, P001 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3 model. The predicted 1-hour maximum ground level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant:	ethylene glycol compounds
TLV (mg/m ³):	100
Maximum Hourly Emission Rate (lbs/hr):	0.5
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
MAGLC (µg/m ³):	2,381
Pollutant:	acetone
TLV (mg/m ³):	1,187
Maximum Hourly Emission Rate (lbs/hr):	0.5
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
MAGLC (µg/m ³):	28,265

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically coatings and cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook

entitled "American Conference of Governmental Industrial Hygienists (ACGIH)", than the lowest TLV value previously modeled;

- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a modification under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxic Policy":

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. Where computer modeling is performed, a copy of the resulting computer model runs that shows the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

E. Testing Requirements

- 1. Emission Limitation:
10% opacity, as a six-minute average for visible particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

2. Emission Limitation:
0.03 grains/dscf; 2.83 lbs/hour; and 12.39 tons/year of particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 2.83lbs/hour PE limit shall be determined by multiplying the 0.03 gr/dscf limit by the baghouse exhaust flow rating of 11,000 dscfm and the conversion factors 60 minutes/1.0 hour and 7,000 grains/ 1.0 lb.

Compliance with the 12.39 tons/year limit shall be determined by multiplying the 2.83 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

3. Emission Limitation:
Organic compound emissions shall not exceed 1.0 lb/hour and 4.38 tons/year.

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the hourly emission limit shall be determined in accordance with the following method(s): Methods 1 - 4 and Method 25 or 25 A of 40 CFR Part 60, Appendix A.

Compliance with the 4.38 tons/year limit shall be determined by multiplying the 1.0 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

F. Miscellaneous Requirements

None

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

2. The permit to install for this emissions unit, P002 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3 model. The predicted 1-hour maximum ground level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant:	ethylene glycol compounds
TLV (mg/m ³):	100
Maximum Hourly Emission Rate (lbs/hr):	0.5
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
MAGLC (µg/m ³):	2,381
Pollutant:	acetone
TLV (mg/m ³):	1,187
Maximum Hourly Emission Rate (lbs/hr):	0.5
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
MAGLC (µg/m ³):	28,265

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the

permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the

permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically coatings and cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)", than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a modification under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxic Policy":

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. Where computer modeling is performed, a copy of the resulting computer model runs that shows the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

E. Testing Requirements

1. Emission Limitation:
10% opacity, as a six-minute average for visible particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

2. Emission Limitation:
0.03 grains/dscf; 2.83 lbs/hour; and 12.39 tons/year of particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 2.83lbs/hour PE limit shall be determined by multiplying the 0.03 gr/dscf limit by the baghouse exhaust flow rating of 11,000 dscfm and the conversion factors 60 minutes/1.0 hour and 7,000 grains/ 1.0 lb.

Compliance with the 12.39 tons/year limit shall be determined by multiplying the 2.83 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

3. Emission Limitation:
Organic compound emissions shall not exceed 1.0 lb/hour and 4.38 tons/year.

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the hourly emission limit shall be determined in accordance with the following method(s): Methods 1 - 4 and Method 25 or 25 A of 40 CFR Part 60, Appendix A.

Compliance with the 4.38 tons/year limit shall be determined by multiplying the 1.0 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

F. Miscellaneous Requirements

None

operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

E. Testing Requirements

1. Emission Limitation:
10% opacity, as a six-minute average for visible particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

2. Emission Limitation:
0.03 grains/dscf; 0.46 lbs/hour; and 2.03 tons/year of particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 2.83lbs/hour PE limit shall be determined by multiplying the 0.03 gr/dscf limit by the baghouse exhaust flow rating of 1,800 dscfm and the conversion factors 60 minutes/1.0 hour and 7,000 grains/ 1.0 lb.

Compliance with the 2.03 tons/year limit shall be determined by multiplying the 0.46 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

F. Miscellaneous Requirements

None

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

D. Reporting Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across each baghouse on daily basis.

E. Testing Requirements

1. Emission Limitation:
10% opacity, as a six-minute average for visible particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

2. Emission Limitation:
0.03 grains/dscf, 5.45 lbs/hr and 23.88 tons per year of particulate emissions.

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 5.45 lbs/hour PE limit shall be determined by multiplying the 0.03 gr/dscf limit by the baghouse exhaust flow rating of 9,200 dscfm and the conversion factors 60 minutes/1.0 hour and 21,200 grains/ 1.0 lb.

Compliance with the 23.88 tons/year limit shall be determined by multiplying the 5.45 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

3. Emission Limitation:

0.02 grains/dscf, 1.89 lbs/hr; and 8.28 tons/year lead emissions.

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 2.37 lbs/hour PE limit shall be determined by multiplying the 0.02 gr/dscf limit by the baghouse exhaust flow rating of 11,000 dscfm and the conversion factors 60 minutes/1.0 hour and 7,000 grains/ 1.0 lb.

F. Miscellaneous Requirements

None

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual(s). The permittee shall record the pressure drop across the baghouse on daily basis.

2. The permit to install for this emissions unit, P005 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3 model. The predicted 1-hour maximum ground level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant:	ethylene glycol compounds
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TLV (mg/m ³):	100
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Maximum Hourly Emission Rate (lbs/hr):	0.5
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Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
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MAGLC (µg/m ³):	2,381
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Pollutant:	acetone
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TLV (mg/m ³):	1,187
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Maximum Hourly Emission Rate (lbs/hr):	0.5
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Predicted 1-Hour Maximum Ground-Level Concentration (µg/m ³):	136.9
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MAGLC (µg/m ³):	28,265
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Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically coatings and cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)", than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a modification under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the "Air Toxic Policy":

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. Where computer modeling is performed, a copy of the resulting computer model runs that shows the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above.

E. Testing Requirements

1. Emission Limitation:

10% opacity, as a six-minute average for visible particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

2. Emission Limitation:

0.025 grains/dscf; 1.97 lbs/hour; and 8.63 tons/year of particulate emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable grain loading based particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

Compliance with the 1.97 lbs/hour PE limit shall be determined by multiplying the 0.025 gr/dscf limit by the baghouse exhaust flow rating of 9,200 dscfm and the conversion factors 60 minutes/1.0 hour and 7,000 grains/ 1.0 lb.

Compliance with the 8.63 tons/year limit shall be determined by multiplying the 2.37 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

3. Emission Limitation:

Organic compound emissions shall not exceed 1.0 lb/hour and 4.38 tons/year.

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the hourly emission limit shall be determined in accordance with the following method(s): Methods 1 - 4 and Method 25 or 25 A of 40 CFR Part 60, Appendix A.

Compliance with the 4.38 tons/year limit shall be determined by multiplying the 1.0 lbs/hr PE limit by 8,760 hours/year and the conversion factor 1.0 ton/2,000 lbs.

F. Miscellaneous Requirements

None

SIC CODE 3399 SCC CODE _____ EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION Solder paste making process equipment.

DATE INSTALLED Jan. 1980

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				0.03 gr/dscf and 2.83 lbs/hr	12.39
PM ₁₀					
Sulfur Dioxide					
Organic Compounds				1.0 lbs/hr	4.38
Nitrogen Oxides					
Carbon Monoxide					
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 BAT is use of baghouse for PE control and compliance with listed emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? YES

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ Not Available

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*? X YES _____ NO _____

IDENTIFY THE AIR CONTAMINANTS: Acetone & ethylene glycol

SIC CODE 3399 SCC CODE _____ EMISSIONS UNIT ID P002

EMISSIONS UNIT DESCRIPTION Solder paste making process equipment.

DATE INSTALLED Jan. 1989

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				0.03 gr/dscf and 2.83 lbs/hr	12.39
PM ₁₀					
Sulfur Dioxide					
Organic Compounds				1.0 lbs/hr	4.38
Nitrogen Oxides					
Carbon Monoxide					
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: BAT is use of baghouse for PE control and compliance with listed emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ Not Available

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*? X YES _____ NO _____

IDENTIFY THE AIR CONTAMINANTS: Acetone & ethylene glycol

SIC CODE 3399 SCC CODE _____ EMISSIONS UNIT ID P003

EMISSIONS UNIT DESCRIPTION Tin screening operations and related process equipment.

DATE INSTALLED Jan. 1989

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				0.03 gr/dscf and 0.46 lb/hr	2.03
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
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: BAT is use of baghouse for PE control and compliance with listed emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ Not Available

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: _____

SIC CODE 3399 SCC CODE _____ EMISSIONS UNIT ID P004

EMISSIONS UNIT DESCRIPTION Atomizing equipment, lead screening and non-lead alloys screening operations and related process equipment.

DATE INSTALLED Jan. 1989

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				0.03 gr/dscf and 5.45 lbs/hr	23.88
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead				0.02 gr/dscf and 1.89 lbs/hr	8.28
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: BAT is use of baghouses for PE and lead control and compliance with listed emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO.

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ Not Available

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 _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

Fusion, Incorporated
PTI Application: 02-19474
Issued: 12/16/2004

Facility ID: 0243161230

SIC CODE 3399 SCC CODE _____ EMISSIONS UNIT ID P005

EMISSIONS UNIT DESCRIPTION Base chemicals mixers, scale and related process equipment.

DATE INSTALLED Jan. 1997

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				0.025 gr/dscf and 1.97 lbs/hr	8.63
PM ₁₀					
Sulfur Dioxide					
Organic Compounds				1.0 lb/hr	4.38
Nitrogen Oxides					
Carbon Monoxide					
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: BAT is use of baghouse for PE control and compliance with listed emissions limits.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? YES

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ Not Available

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*? X YES _____ NO _____

IDENTIFY THE AIR CONTAMINANTS: Acetone & ethylene glycol