



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: April 6, 2010

RE: 3M Indianapolis / 097 - 28858 - 00368

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER-AM.dot12/3/07



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April 6, 2010

Mr. Jim Coratti  
3M Indianapolis  
5457 W 79th St  
Indianapolis, IN 46268

Re: 097-28858-00368  
First Administrative Amendment to  
Part 70 OP Renewal No.:T097-24813-00368

Dear Mr. Coratti:

3M Indianapolis was issued a Part 70 Operating Permit Renewal on October 26, 2009 for a stationary plastic manufacturing operation. A letter requesting changes to this permit was received on January 8, 2010. Pursuant to the provisions of 326 IAC 2-7-11 an administrative amendment to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of company ownership change, plant name changes and the addition of a Plant 1 Assembly line operation.

For your convenience, the entire Part 70 Operating Permit Renewal as amended is attached.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Charles Sullivan, OAQ, 100 North Senate Avenue, MC 61-53 1003 IGCN, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Charles Sullivan or extension (2-8422), or dial (317) 232-8422.

Sincerely,

Donald F. Robin, P.E., Section Chief  
Permits Branch  
Office of Air Quality

Attachments  
DFR/cs

cc: File – Marion County  
Marion County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch

Mr. David Dempsey  
Trinity Consultants  
201 N. Illinois Street  
16th Floor - South Tower  
Indianapolis, IN 46204



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## Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

### 3M Indianapolis

**Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268;**

**Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268;**

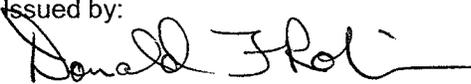
**Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T097-24813-00368	
Issued by/ Original Signed by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: October 26, 2009  Expiration Date: October 26, 2014

First Administrative Amendment No.: 097-28858-00368	
Issued by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date:  April 6, 2010 Expiration Date: October 26, 2014

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary plastic manufacturing operation.

Source Address:	Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268
Mailing Address:	5457 West 79th Street, Indianapolis, IN 46268
General Source Phone Number:	317-692-6666
SIC Code:	3086 and 3842
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source, under PSD, Emission Offset and Nonattainment NSR Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

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This plastics manufacturing company consists of three (3) plants:

- (a) Plant 1: 3M Indianapolis, is located at 5457 West 79th Street, Indianapolis, IN 46268;
- (b) Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company is located at 7911 Zionsville Road, Indianapolis, IN 46268; and
- (c) Plant 3: 3M International Distribution Center, is located at 8001 Woodland Drive, Indianapolis, IN 46268.

Since the three (3) plants are located on contiguous properties, have the same SIC codes and are owned by one (1) company, they will be considered one (1) source. This source definition was established in Part 70 Operating Permit T097-8852-00368 issued on February 19, 2003.

### A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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This stationary source consists of the following emission units and pollution control devices:

#### **Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road**

- (a) One (1) confor process, installed in 1990 and modified in 1999, with a maximum isopentane usage rate of 58,441 pounds per year, producing slab stock polyurethane foam, with emissions exhausting through stack SU-2. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

- (b) One (1) PVC foam mixing and casting line, installed in the 1970's, identified as emission unit ID 5056-01, with a maximum capacity of 5,720,280 pounds of raw material input per year (653 pounds per hour) consisting of a PVC pellet mixing operation with a fabric filter and a casting line with a 6 million Btu per hour natural gas or propane fueled oven, with emissions exhausting to a catalytic oxidizer, which exhausts to stack SC-1. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (c) One urethane foam forming line (Mushroom Pilot Line) installed in 1996, and modified in 2006, producing foam for either of two product lines, with a maximum raw material usage rate of 17,078 lbs/yr for process A, and 218,177 lbs/yr, for process B. The raw material contains VOC. The emissions are exhausted through stack SU-8. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (d) One (1) tote cleaning process installed in the 1970's, with a maximum solvent usage rate of 11,384 lbs/yr, and with fugitive emissions vented through general building ventilation stack SU-5. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (e) One (1) Acoustical Test Facility, constructed in 2007, identified as ATF, exhausting to stack ATF-S1 and consisting of one of the following three testing activities:
  - (1) Reciprocating internal combustion engine, identified as ATF-U1, with a maximum capacity of 600 horsepower, burning diesel fuel.
  - (2) Reciprocating internal combustion engine, identified as ATF-U2, with a maximum capacity of 1500 horsepower, burning natural gas.
  - (3) Reciprocating internal combustion engine, identified as ATF-U3, with a maximum capacity of 5 horsepower, burning a mixture of natural gas, diesel and gasoline.

Only one of the three testing activities, ATF-U1, ATF-U2, and ATF-U3, can take place at a time. ATF-U1, ATF-U2, and ATF-U3 are affected units under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ.
- (f) One (1) Twin Screw Extruder/Underwater Pelletizer operation, approved for construction in 2009, consisting of the following: one (1) raw material pre-mix blender, two (2) auger conveyors controlled by a baghouse, one (1) twin screw extruder, one (1) underwater pelletizer, and one (1) enclosed centrifugal dryer.

**Plant 1: 3M Indianapolis, 5457 West 79th Street**

- (g) One polyurethane molding line, installed in 1990 and modified in 2005, identified as Emission Unit 901, with a maximum VOC/HAP containing raw materials usage rate of 776,924 lbs/yr, and exhausting to Stack SU-12. The raw materials used do not meet the definitions of polyurethane under 40 CFR Part 63, Subpart III. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (h) One polyurethane molding line, installed in 1991, identified as Emission Unit 902 with a production capacity of 2,000 pairs of earplugs per hour, and exhausting to Stack SU-13. The raw materials used do not meet the definitions of polyurethane under 40 CFR Part 63, Subpart III. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (i) One polyurethane molding line, approved for construction in 2007, identified as Emission Unit 909, with a maximum VOC containing raw material usage rate of 113 pounds per hour, and exhausting to Stacks SU-9 and SU-10. The raw materials used do not meet the definitions of polyurethane under 40 CFR Part 63, Subpart III. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

### Plant 3: 3M International Distribution Center, 8001 Woodland Drive

This plant is a distribution center. There are no significant emissions units located at this plant.

#### A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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- (a) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (b) Any unit, not regulated by a NESHAP, emitting greater than one (1) pound per day but less than twelve and five-tenths (12.5) pounds per day or two and five-tenths (2.5) tons per year of any combination of HAPs, including one (1) parts cleaning process installed in 1990, with a maximum solvent usage rate of 2,659 lbs/yr, and emissions exhausting out of stack SU-6. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (c) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (d) Plant 1 Assembly line, approved in 2010 for construction, maximum line capacity of 1,200 units per day, consisting of the following: handheld soldering operations and hand application of VOC-containing materials, including adhesives and coatings, small electric ovens using electric heat or ultraviolet (UV) light. [326 IAC 6.5]

#### A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

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Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

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- (a) This permit, T097-24813-00368, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]**

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

**B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)]  
[326 IAC 1-6-3]

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Emergency Provisions [326 IAC 2-7-16]

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement Branch)  
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;  
(B) Any steps taken to mitigate the emissions; and  
(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable

at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T097-24813-00368 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.

- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]  
[326 IAC 2-7-12(b)(2)]

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- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
and  
  
United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590  
  
in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
  - (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

**B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]**

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For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2 (4) is not federally enforceable.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

### Testing Requirements [326 IAC 2-7-6(1)]

#### C.8 Performance Testing [326 IAC 3-6]

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### Compliance Requirements [326 IAC 2-1.1-11]

#### C.9 Compliance Requirements [326 IAC 2-1.1-11]

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

### Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

#### C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

**C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

**C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

**C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

**C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]**

- (a) Pursuant to 326 IAC 2-6-3(b)(2), starting in 2005 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
  - (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-50 IGCN 1003  
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [326 IAC 2-3]

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-3]

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road

- (a) One (1) confor process, installed in 1990 and modified in 1999, with a maximum isopentane usage rate of 58,441 pounds per year, producing slab stock polyurethane foam and exhausting through stack SU-2. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

Pursuant to 097-11552-00319, issued on November 18, 1999 and T097-8852-00368, the input of isopentane to the confor process shall be limited to less than 31,000 pounds per twelve (12) consecutive month period, which is equivalent to 15.5 tons of VOC per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply.

### Compliance Determination Requirements

#### D.1.2 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Condition D.1.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

### Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

#### D.1.3 Record Keeping Requirement

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.1.1.
- (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent used less water on daily basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The total VOC usage for each month; and
  - (4) The weight of VOCs emitted for each compliance period.

- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.4 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.1.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.2

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road

- (b) One (1) PVC foam mixing and casting line, installed in the 1970's, identified as emission unit ID 5056-01, with a maximum capacity of 5,720,280 pounds of raw material input per year (653 pounds per hour) consisting of a PVC pellet mixing operation with a fabric filter and a casting line with a 6 million Btu per hour natural gas or propane fueled oven, with emissions exhausting to a catalytic oxidizer, which exhausts to stack SC-1. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (c) One (1) Twin Screw Extruder/Underwater Pelletizer operation, approved for construction in 2009, consisting of the following: one (1) raw material pre-mix blender, two (2) auger conveyors controlled by a baghouse, one (1) twin screw extruder, one (1) underwater pelletizer, and one (1) enclosed centrifugal dryer.
- (d) One urethane foam forming line (Mushroom Pilot Line) installed in 1996, and modified in 2006, producing foam for either of two product lines, with a maximum raw material usage rate of 17,078 lbs/yr for process A, and 218,177 lbs/yr, for process B. The ram material contains VOC. The emissions are exhausted through stack SU-8. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (e) One (1) tote cleaning process installed in the 1970's, with a maximum solvent usage rate of 11,384 lbs/yr, and with fugitive emissions vented through general building ventilation stack SU-5. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.2.1 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from PVC foam mixing shall not exceed 1.94 pounds per hour when operating at a process weight rate of 653 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Twin Screw Extruder/Underwater Pelletizer operation shall not exceed 1.62 pounds per hour when operating at a process weight rate of 0.25 tons per hour.

The pounds per hour limitations were calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

## **Compliance Determination Requirements**

### **D.2.2 Particulate Control**

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- (a) In order to comply with Condition D.2.1(a), the fabric filter baghouse for particulate control shall be in operation and control emissions from the mixing operation at all times that the mixing operation is in operation.
  
- (b) In order to comply with Condition D.2.1(b), the baghouse for particulate control shall be in operation and control emissions from the Twin Screw Extruder/Underwater Pelletizing operation at all times the line is in operation.

## SECTION D.3

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### **Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road**

- (f) One (1) Acoustical Test Facility, constructed in 2007, identified as ATF, exhausting to stack ATF-S1 and consisting of one of the following three testing activities:
- (1) Reciprocating internal combustion engine, identified as ATF-U1, with a maximum capacity of 600 horsepower, burning diesel fuel.
  - (2) Reciprocating internal combustion engine, identified as ATF-U2, with a maximum capacity of 1500 horsepower, burning natural gas.
  - (3) Reciprocating internal combustion engine, identified as ATF-U3, with a maximum capacity of 5 horsepower, burning a mixture of natural gas, diesel and gasoline.

Only one of the three testing activities, ATF-U1, ATF-U2, and ATF-U3, can take place at a time. ATF-U1, ATF-U2, and ATF-U3 are affected units under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.3.1 NO<sub>x</sub> Emissions [326 IAC 2-3]

Pursuant to MSM 097-24860-00368, issued August 28, 2007, and 326 IAC 2-3 (Emission Offset),

- (a) The hours of operation of ATF shall not exceed 2,688 hours per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) NO<sub>x</sub> emissions from ATF shall not exceed 18.60 pounds per hour.

Compliance with these emission limits ensure that the requirements of 326 IAC 2-3 are not applicable to this source.

### Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

#### D.3.2 Record Keeping Requirement

- (a) To document compliance with Condition D.3.1, the Permittee shall maintain records of the monthly hours of operation of ATF.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.3.3 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.4

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Plant 1: 3M Indianapolis, 5457 West 79th Street

- (g) One polyurethane molding line, installed in 1990 and modified in 2005, identified as Emission Unit 901, with a maximum VOC/HAP containing raw materials usage rate of 776,924 lbs/yr, and exhausting to Stack SU-12. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (h) One polyurethane molding line, installed in 1991, identified as Emission Unit 902 with a production capacity of 2,000 pairs of earplugs per hour, and exhausting to Stack SU-13. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (i) One polyurethane molding line, approved for construction in 2007, identified as Emission Unit 909, with a maximum VOC containing raw material usage rate of 113 pounds per hour, and exhausting to Stacks SU-9 and SU-10. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

#### Insignificant Activities:

- (d) Plant 1 Assembly line, approved in 2010 for construction, maximum line capacity of 1,200 units per day, consisting of the following: handheld soldering operations and hand application of VOC-containing materials, including adhesives and coatings, small electric ovens using electric heat or ultraviolet (UV) light. [326 IAC 6.5]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.4.1 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6][326 IAC 2-3]

Pursuant to MSM 097-24100-00368, the VOC input to Emission Unit 901 and Emission Unit 909 shall each be limited to less than twenty-five (25) tons per twelve (12) consecutive month period with compliance demonstrated at the end of each month. Compliance with this limit shall make 326 IAC 8-1-6 and 326 IAC 2-3 not applicable.

#### D.4.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the polyurethane molding lines shall not exceed 1.39 lbs/hr each when operating at a process weight rate of 400 lbs per hour.

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

#### D.4.3 Particulate Matter Limitations [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from the Plant 1 Assembly line operation shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.

## Compliance Determination Requirements

### D.4.4 Volatile Organic Compounds (VOC)

---

Compliance with the VOC content and usage limitations contained in Conditions D.4.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

### D.4.5 Record Keeping Requirement

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- (a) To document compliance with Condition D.4.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.3.1.
- (1) The VOC content of each coating material and solvent used.
  - (2) The amount of coating material and solvent used less water on daily basis.
    - (A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
    - (B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.
  - (3) The total VOC usage for each month; and
  - (4) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### D.4.6 Reporting Requirements

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A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.5

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, and not subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-5]
- (b) Any unit, not regulated by a NESHAP, emitting greater than one (1) pound per day but less than twelve and five-tenths (12.5) pounds per day or two and five-tenths (2.5) tons per year of any combination of HAPs:
  - (1) One (1) parts cleaning process installed in 1990, with a maximum solvent usage rate of 2,659 lbs/yr, and emissions exhausting out of stack SU-6.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter and St. Joseph Counties and which have potential emissions of one hundred (100) tons per year or greater of VOC, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

#### D.5.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) The solvent is agitated; or
  - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
  - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
    - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
    - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
    - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
    - (1) Close the cover whenever articles are not being handled in the degreaser.
    - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
    - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

## SECTION E.1

## EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### **Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road**

- (e) One (1) Acoustical Test Facility, constructed in 2007, identified as ATF, exhausting to stack ATF-S1 and consisting of one of the following three testing activities:
- (1) Reciprocating internal combustion engine, identified as ATF-U1, with a maximum capacity of 600 horsepower, burning diesel fuel.
  - (2) Reciprocating internal combustion engine, identified as ATF-U2, with a maximum capacity of 1500 horsepower, burning natural gas.
  - (3) Reciprocating internal combustion engine, identified as ATF-U3, with a maximum capacity of 5 horsepower, burning a mixture of natural gas, diesel and gasoline.

Only one of the three testing activities, ATF-U1, ATF-U2, and ATF-U3, can take place at a time. ATF-U1, ATF-U2, and ATF-U3 are affected units under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

#### E.1.1 General Provisions Relating to NSPS Subpart JJJJ [326 IAC 12-1] [40 CFR Part 60, Subpart A]

Pursuant to 40 CFR 63.6580, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1, as specified in Table 3 of 40 CFR Part 60, Subpart JJJJ in accordance with schedule in 40 CFR 60 Subpart JJJJ.

#### E.1.2 Stationary Reciprocating Internal Combustion Engines NSPS [40 CFR Part 60, Subpart JJJJ]

The Permittee which engages in operation of Stationary Reciprocating Internal Combustion Engines shall comply with the following provisions of 40 CFR Part 60, Subpart JJJJ (included as Attachment A of this permit):

- (1) 60.4230(a)(4) and (d)
- (2) 60.4233(a),(b),(d),(e)
- (3) 60.4234
- (4) 60.4235
- (5) 60.4236
- (6) 60.4243(a),(b),(e),(f), (g),(h)
- (7) 60.4244
- (8) 60.4245
- (9) Tables 1, 2, and 3

The provisions of 40 CFR 60 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60 Subpart JJJJ.

## SECTION E.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### **Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road**

- (e) One (1) Acoustical Test Facility, constructed in 2007, identified as ATF, exhausting to stack ATF-S1 and consisting of one of the following three testing activities:
- (1) Reciprocating internal combustion engine, identified as ATF-U1, with a maximum capacity of 600 horsepower, burning diesel fuel.
  - (2) Reciprocating internal combustion engine, identified as ATF-U2, with a maximum capacity of 1500 horsepower, burning natural gas.
  - (3) Reciprocating internal combustion engine, identified as ATF-U3, with a maximum capacity of 5 horsepower, burning a mixture of natural gas, diesel and gasoline.

Only one of the three testing activities, ATF-U1, ATF-U2, and ATF-U3, can take place at a time. ATF-U1, ATF-U2, and ATF-U3 are affected units under 40 CFR 60, Subpart JJJJ and 40 CFR 63, Subpart ZZZZ.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### E.2.1 General Provisions Relating to NESHAP ZZZZ [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.6580, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1, as specified in Table 8 of 40 CFR Part 63, Subpart ZZZZ in accordance with schedule in 40 CFR 63 Subpart ZZZZ.

#### E.2.2 Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ]

The Permittee which engages in operation of Stationary Reciprocating Internal Combustion Engines shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment B of this permit), with a compliance date of January 18, 2008:

- (1) 63.6580
- (2) 63.6581(c)
- (3) 63.6590(a)(2),(c)
- (4) 63.6595(a)(7),(c)

The provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facilities described in this section except when otherwise specified in 40 CFR 63, Subpart ZZZZ.

## **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **E.2.3 Record Keeping Requirement**

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(a) To document compliance with 40 CFR 63, Subpart ZZZZ, the Permittee shall maintain a log of the following for each engine used for foam insulation testing in the ATF:

- (1) Engine model;
- (2) Engine Size (kW or HP);
- (3) Hours of operation;
- (4) Applicability under 40 CFR 63, Subpart ZZZZ.

Additionally, the source shall keep copies of certifications from the manufacturer (as described under the Subpart).

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION E.3 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

#### Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road

- (a) One (1) confor process, installed in 1990 and modified in 1999, with a maximum isopentane usage rate of 58,441 pounds per year, producing slab stock polyurethane foam, with emissions exhausting through stack SU-2. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (b) One (1) PVC foam mixing and casting line, installed in the 1970's, identified as emission unit ID 5056-01, with a maximum capacity of 5,720,280 pounds of raw material input per year (653 pounds per hour) consisting of a PVC pellet mixing operation with a fabric filter and a casting line with a 6 million Btu per hour natural gas or propane fueled oven, with emissions exhausting to a catalytic oxidizer, which exhausts to stack SC-1. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (c) One urethane foam forming line (Mushroom Pilot Line) installed in 1996, and modified in 2006, producing foam for either of two product lines, with a maximum raw material usage rate of 17,078 lbs/yr for process A, and 218,177 lbs/yr, for process B. The ram material contains VOC. The emissions are exhausted through stack SU-8. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.
- (d) One (1) tote cleaning process installed in the 1970's, with a maximum solvent usage rate of 11,384 lbs/yr, and with fugitive emissions vented through general building ventilation stack SU-5. This unit is an affected unit under 40 CFR 63, Subpart OOOOOO.

#### Plant 1: 3M Indianapolis, 5457 West 79th Street

- (f) One polyurethane molding line, installed in 1990 and modified in 2005, identified as Emission Unit 901, with a maximum VOC/HAP containing raw materials usage rate of 776,924 lbs/yr, and exhausting to Stack SU-12.
- (g) One polyurethane molding line, installed in 1991, identified as Emission Unit 902 with a production capacity of 2,000 pairs of earplugs per hour, and exhausting to Stack SU-13.
- (h) One polyurethane molding line, approved for construction in 2007, identified as Emission Unit 909, with a maximum VOC containing raw material usage rate of 113 pounds per hour, and exhausting to Stacks SU-9 and SU-10.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### E.3.1 General Provisions Relating to NESHAP OOOOOO [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.11418, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-82-1, as specified in Table 1 of 40 CFR Part 63, Subpart OOOOOO in accordance with schedule in 40 CFR 63 Subpart OOOOOO.

E.3.2 Flexible Polyurethane Foam Production and Fabrication Area Sources NESHAP [40 CFR Part 63, Subpart OOOOOO]

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The Permittee which engages in flexible polyurethane foam production shall comply with the following provisions of 40 CFR Part 63, Subpart OOOOOO (included as Attachment C of this permit), with a compliance date of July 16, 2008:

- (1) 63.11414(a)(1), (b)(1), (b)(2), (c)
- (2) 63.11415(a) and (b)
- (3) 63.11416(a),(b),(c),(d), and (f)
- (4) 63.11417(a),(b),(c)(1), and (d)
- (5) 63.11418
- (6) 63.11419
- (7) 63.11420
- (8) Table 1

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the flexible polyurethane foam production operations, except when otherwise specified in 40 CFR 63, Subpart OOOOOO.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911  
Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive,  
Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**Part 70 Quarterly Report**

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368  
Facility: Confor Process  
Parameter: Isopentane  
Limit: Less than fifteen and five-tenths (15.5) tons of VOC input per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### Part 70 Quarterly Report

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368  
Facility: Polyurethane Molding Line 901  
Parameter: VOC  
Limit: Less than twenty-five (25) tons of VOC input per twelve (12) consecutive month period with compliance determined at the end of each month

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### Part 70 Quarterly Report

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368  
Facility: Polyurethane Molding Line 909  
Parameter: VOC  
Limit: Less than twenty-five (25) tons of VOC input per twelve (12) consecutive month period with compliance determined at the end of each month

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.  
Deviation has been reported on:

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

## Part 70 Quarterly Report

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368  
Facility: Acoustical Testing Facility (ATF-U1, ATF-U2, and ATF-U3)  
Parameter: Hours of Operation  
Limit: Less than 2,688 hours of operation per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER :

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
PART 70 OPERATING PERMIT  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: 3M Indianapolis  
Source Address: Plant 1: 5457 West 79th Street, Indianapolis, Indiana 46268; Plant 2: 7911 Zionsville Road, Indianapolis, Indiana 46268; Plant 3: 8001 Woodland Drive, Indianapolis, Indiana 46268  
Mailing Address: 5457 West 79th Street, Indianapolis, IN 46268  
Part 70 Permit No.: T097-24813-00368

**Months: \_\_\_\_\_ to Year: \_\_\_\_\_**

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a  
Part 70 Administrative Amendment Permit

**Source Background and Description**

**Source Name:** 3M Indianapolis  
**Source Location:** Plant 1: 5457 West 79<sup>th</sup> St, Indianapolis, IN 46268  
 Plant 2: 7911 Zionsville Rd, Indianapolis, IN 46268  
 Plant 3: 8001 Woodland Dr, Indianapolis, IN 46268  
**County:** Marion  
**SIC Code:** 3086, 3842  
**Operating Permit Renewal No.:** T097-24813-00368  
**Operating Permit Renewal Issuance Date:** October 26, 2009  
**Operating Permit No.:** 097-28858-00368  
**Permit Reviewer:** Charles Sullivan

**Source Definition**

This plastics manufacturing company consists of three (3) plants:

- (a) Plant 1: 3M Indianapolis, 5457 West 79<sup>th</sup> Street, Indianapolis, IN 46268;
- (b) Plant 2: E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road, Indianapolis, IN 46268; and
- (c) Plant 3: 3M International Distribution Center, 8001 Woodland Drive, Indianapolis, IN 46268.

Since the three (3) plants are located on contiguous properties, have the same SIC codes and are owned by one (1) company, they will be considered one (1) source. This source definition was established in Part 70 Operating Permit T097-8852-00368 issued on February 19, 2003.

**Existing Approvals**

There have been no previous approvals to this source.

**County Attainment Status**

The source is located in Marion County

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11 <sup>th</sup> Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O <sub>3</sub>	Attainment effective November 8, 2007, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.

<sup>1</sup>Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X\*. The 1-hour designation was revoked effective June 15, 2005.  
 Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(a) Ozone Standards

- (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (2) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.
- (3) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for PM2.5 emissions, and the effective date of these rules was July 15, 2008. Therefore, direct PM2.5 and SO<sub>2</sub> emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Marion County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

**Source Status**

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

<b>Table 1: Source Status PTE</b>	
<b>Pollutant</b>	<b>Emissions (ton/yr)</b>
PM	21.71*
PM <sub>10</sub>	21.71*
PM <sub>2.5</sub>	21.71*
SO <sub>2</sub>	5.82
VOC	191
CO	< 28
NO <sub>x</sub>	85.5

\* Limited PTE based on compliance with 326 IAC 6-3-2 and uncontrolled emissions from other units at the source.

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

- (b) This existing stationary source is not major for Emission Offset (326 IAC 2-3) and Nonattainment NSR because PM<sub>2.5</sub> and SO<sub>2</sub> are not emitted at a rate of 100 tons per year or more.
- (c) These emissions are based upon Part 70 Operating Permit Renewal No.: T097-24813-00368 issued October 26, 2009.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

<b>Table 2: Source Status HAP PTE</b>	
<b>HAPs</b>	<b>Potential To Emit (ton/yr)</b>
1,1,1-Trichloroethane	5.49
Methylene Chloride	1.33
Toluene	0.88
Formaldehyde	0.34
(Other HAPs)	1.96
<b>Total</b>	<b>10.1</b>

This existing source is not a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

**Actual Emissions**

The following table shows the actual emissions from the source. This information reflects the 2007 OAQ emission data.

<b>Table 3: Actual Emissions</b>	
<b>Pollutant</b>	<b>Actual Emissions (ton/yr)</b>
PM	Not reported
PM <sub>10</sub>	Not reported
SO <sub>2</sub>	Not reported
VOC	29.09
CO	Not reported
NO <sub>x</sub>	Not reported
Methylene Chloride	0.60
Methyl Chloroform	0.04

**Description of Proposed Modification**

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by 3M Indianapolis on January 8, 2010, relating to a source ownership change, and addition of a new Assembly line at Plant 1. In addition, 3M requests that the individual plant names be updated as follows:

- **Plant 1:** 3M Indianapolis, 5457 West 79th Street, Indianapolis, IN 46268;
- **Plant 2:** E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road, Indianapolis, IN 46268; and

- **Plant 3:** 3M International Distribution Center, 8001 Woodland Drive, Indianapolis, IN, 46268.

The following is a list of the proposed emission units and pollution control device:

- Plant 1 Assembly line, approved for construction in 2010, maximum line capacity of 1,200 units per day, consisting of the following: handheld soldering operations and hand application of VOC-containing materials, including adhesives and coatings, small electric ovens using electric heat or ultraviolet (UV) light.

**Enforcement Issues**

There are no pending enforcement actions related to this modification.

**Emission Calculations**

See Appendix A of this Technical Support Document for detailed emission calculations.

**Permit Level Determination – Part 70**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

<b>Pollutant</b>	<b>Potential To Emit (ton/yr)</b>
PM	0.02
PM <sub>10</sub>	0.02
PM <sub>2.5</sub>	0.02
SO <sub>2</sub>	--
VOC	0.47
CO	--
NO <sub>x</sub>	--

<b>Pollutant</b>	<b>Potential To Emit (ton/yr)</b>
Total HAPs	0.19

The change in ownership and resulting name changes will be incorporated into the Part 70 Operating Permit as an administrative amendment issued pursuant to 326 IAC 2-7-11(a)(4).

Additionally, the modification due to the new Plant 1 Assembly line operation will be incorporated into the Part 70 Operation Permit Renewal through an administrative amendment issued pursuant to 326 IAC 2-7-11(a)(8)(B). As shown in Tables 4 and 5, the PTE from the new Plant 1 Assembly line is less than the thresholds outlined in 326 IAC 2-7-1(21)(A), (B) and (C).

### Federal Rule Applicability Determination

The following is the federal rule applicability for this source due to this modification:

#### **NSPS:**

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.

#### **NESHAP:**

- (b) This source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Surface Coating of Plastic Parts and Products, Subpart PPPP, because this Indianapolis source is not a major source of HAP.
- (c) The proposed Plant 1 Assembly line is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources 40 CFR Part 63, Subpart HHHHHH due to spray application of coating compounds containing chromium, lead, manganese, or cadmium to plastic will not occur with the proposed Plant 1 Assembly line.

#### **CAM**

- (d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant; and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

Since the new Plant 1 Assembly line operation does not use a control device, the requirements of 40 CFR Part 64, CAM are not applicable to any of the Plant 1 Assembly line operation as part of this modification.

### State Rule Applicability Determination

The following is the state rule applicability for this source due to this modification:

#### **326 IAC 2-2 and 2-1.1-5 (PSD and Nonattainment NSR)**

This source is an existing minor source under PSD and under Nonattainment NSR. The potential to emit after issuance of this modification is less than the PSD and Nonattainment NSR major source thresholds. Therefore, this modification is not subject to PSD or Nonattainment NSR review.

#### **326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))**

The operation of the Plant 1 Assembly Line operation will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

### **326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-2(2) (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

### **326 IAC 6.5 (Particulate Matter Limitations Except Lake County)**

3M Indianapolis, is located in Marion County, and has the potential to emit of PM of less than 100 tons per year. The source has the potential to emit of PM of greater than 10 tons per year. Although actual particulate emissions may be less than ten (10) tons per year, the source does not have a federally enforceable limit to limit the source wide potential to emit of PM to less than ten (10) tons per year. Therefore, actual emissions of particulate matter are assumed to be greater than 10 tons per year and all the 3M Indianapolis facilities that emit PM are subject to 326 IAC 6.5-1-2. Therefore, 326 IAC 6.5 does apply to the Plant 1 Assembly line operation.

Pursuant to 326 IAC 6.5 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from the Plant 1 Assembly line operation shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.

Based on the PTE calculations provided, the Plant 1 Assembly line operation can meet this limit.

### **326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-1(b)(14), the new Plant 1 Assembly line operation is exempt from 326 IAC 6-3-2, because potential particulate emissions are less than 0.551 pounds per hour. All the units are assembled with coatings and adhesives being either hand dipped, rolled, flow, or brushed applied. Aerosol cans also used as part of this operation are exempt under 1(b)(15) of this rule.

### **326 IAC 8-1-6 (New Facilities; General Reduction Requirements)**

The provisions of 326 IAC 8-1-6 apply to new facilities as of January 1, 1980 that have potential emissions of twenty-five (25) tons or more per year of VOC; are located anywhere in the state; and that are not otherwise regulated by other provisions of Article 8, 326 IAC 20-48, or 326 IAC 20-56. The new Plant 1 Assembly line operation has potential VOC emissions of 0.47 tons per year; therefore, the provisions of 326 IAC 8-1-6 do not apply.

### **326 IAC 8-2 (Surface Coating Emission Limitations)**

Pursuant to 326 IAC 8-2-1(a), these facilities are not subject to 326 IAC 8-2 because the operations performed at the new Plant 1 Assembly line operation do not belong to one of the categories in 326 IAC 8-2-2 through 326 IAC 8-2-13.

## **Compliance Determination and Monitoring Requirements**

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There are no new compliance determination or monitoring requirements applicable to this modification.

### Proposed Changes

The changes listed below have been made to Part 70 Operating Permit Renewal No. T 097-24813-00368. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

1. All references to the company name, plant names and street addresses have been replaced by the following in the permit and reporting forms.
  - **Plant 1:** 3M Indianapolis, 5457 West 79<sup>th</sup> Street
  - **Plant 2:** E-A-R Thermal Acoustic Systems, Aearo Technologies, LLC, A 3M Company, 7911 Zionsville Road
  - **Plant 3:** 3M International Distribution Center, 8001 Woodland Drive, 8001 Woodland Drive
2. Section A.4 and D.4 of the permit have been modified to include the emission unit description of the new Plant 1 Assembly line operation and the requirements of 326 IAC 6.5. The permit has been revised as follows:

\* \* \*

- A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]  
[326 IAC 2-7-5(15)]

\* \* \*

- (d) Plant 1 Assembly line, approved in 2010 for construction, maximum line capacity of 1,200 units per day, consisting of the following: handheld soldering operations and hand application of VOC-containing materials, including adhesives and coatings, small electric ovens using electric heat or ultraviolet (UV) light. [326 IAC 6.5]**

\* \* \*

\* \* \* \*

#### SECTION D.4

#### EMISSIONS UNIT OPERATION CONDITIONS

##### Emissions Unit Description:

**Plant 1: 3M Indianapolis, 5457 West 79th Street**

\* \* \* \*

##### Insignificant Activities:

- (d) Plant 1 Assembly line, approved in 2010 for construction, maximum line capacity of 1,200 units per day, consisting of the following: handheld soldering operations and hand application of VOC-containing materials, including adhesives and coatings, small electric ovens using electric heat or ultraviolet (UV) light. [326 IAC 6.5]**

\* \* \* \*

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

\* \* \* \*

**D.4.3 Particulate Matter Limitations [326 IAC 6.5-1-2(a)]**

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**Pursuant to 326 IAC 6.5 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from the Plant 1 Assembly line operation shall not exceed 0.03 grain per dry standard cubic foot of exhaust air.**

\* \* \* \*

\* \* \* \*

**D.4.3 4 Volatile Organic Compounds (VOC)**

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\* \* \* \*

**D.4.4 5 Record Keeping Requirement**

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\* \* \* \*

**D.4.5 6 Reporting Requirements**

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\* \* \* \*

3. Paragraph (h) of Condition B.11 has been removed to be consistent with the rule language of 326 IAC 2-7-16 Emergency provision.

**B.11 Emergency Provisions [326 IAC 2-7-16]**

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~~(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.~~

**Conclusion and Recommendation**

The operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Administrative Amendment No. 097-28858-00368. The staff recommend to the Commissioner that this Part 70 Administrative Amendment be approved.



**Appendix A: Emission Calculations**

**HAP Emission Calculations**

**Particulate Emissions**

**Company Name: 3M Indianapolis**

**Address City IN Zip: 5457 West 79th Street, Indianapolis, IN 46268**

**Permit Number: 097-28858-00368**

**Plt ID: 097-00368**

**Permit Reviewer: C. Sullivan**

**Date: 24-Feb-2010**

Material <sup>1</sup>	Density (Lb/Gal)	Gallons of Material (gal/unit)	Maximum (unit/hour)	Potential Material Usage (lb/yr)	Weight % Xylene	Weight % Toluene	Weight % Ethel Benzene	Weight % Glycol Ethers	Xylene Emissions (ton/yr)	Toluene Emissions (ton/yr)	Ethel Benzene Emissions (ton/yr)	Glycol Ethers Emissions (ton/yr)
Conformal Coating 1	8.08	8.71E-05	50.0	38.17	60.00%	0.00%	0.00%	0.00%	9.25E-02	0.00E+00	0.00E+00	0.00E+00
Conformal Coating 2	7.91	2.51E-07	50.0	0.11	50.00%	0.00%	12.00%	0.00%	2.18E-04	0.00E+00	5.22E-05	0.00E+00
Adhesion Promoter	6.80	3.60E-05	50.0	15.75	29.00%	0.30%	7.00%	0.00%	1.55E-02	1.61E-04	3.75E-03	0.00E+00
Conformal Coating 3	8.83	3.32E-04	50.0	145.57	0.00%	0.00%	0.00%	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Adhesive	9.70	1.70E-04	50.0	74.56	0.00%	0.00%	0.00%	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Thermosetting Adhesive	9.07	1.05E-03	50.0	459.27	0.00%	0.00%	0.00%	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pad Printing Ink	15.83	4.05E-05	50.0	17.75	5.00%	0.00%	0.00%	15.00%	7.02E-03	0.00E+00	0.00E+00	2.11E-02
Pad Print Cleaner	13.33	5.37E-05	50.0	23.52	20.00%	0.00%	0.00%	0.00%	3.14E-02	0.00E+00	0.00E+00	0.00E+00
Med Thinner	7.50	4.60E-05	50.0	20.16	4.00%	0.00%	0.00%	0.00%	3.02E-03	0.00E+00	0.00E+00	0.00E+00
Cored Solder	0.00	0.00E+00	50.0	--	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00E+00	0.00E+00

Total State Potential Emissions

**1.50E-01    1.61E-04    3.80E-03    2.11E-02**

Material	Number of Solder Stations	Potential Hours of Operation (hr/yr)	Soldering Emission Factor (g/min) <sup>2</sup>	PM/PM10/PM2.5 PTE (tpy)	Lead/HAP PTE (tpy) <sup>3</sup>
Cored Solder	16	8760	0.002	1.85E-02	see Footnote
<b>Total</b>				<b>1.85E-02</b>	

Conversion Factors

1 lb = 453.5924 g  
 1 gal = 3.785412 L  
 1 gal = 3785.412 cc  
 1 gal = 128 fluid oz.

**METHODOLOGY**

HAPS emission rate (tons/yr) = Density (lb/gal) \* Gal of Material (gal/unit) \* Maximum (unit/hr) \* Weight % HAP \* 8760 hrs/yr \* 1 ton/2000 lbs

<sup>1</sup> Representative materials that are expected to be used in the process.

<sup>2</sup> E Jacobs, B, et.al., "Emission Characterization for Complex Welding, Cutting, Soldering and Grazing Operations", Air & Waste Management Association Annual Meeting & Exhibition, San Antonio, Texas, 1995.

<sup>3</sup> Metal content of solder varies. At worst case scenario of either 100% lead or 100% of a single HAP, Lead/HAP PTE is equivalent to PM/PM10/PM2.5 PTE.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

**TO:** Jim Coratti  
3M Indianapolis  
5457 W 79th St  
Indianapolis, IN 46268

**DATE:** April 6, 2010

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
Title V - Administrative Amendment  
097 - 28858 - 00368

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
Paul Doron, Plant Mgr  
David Dempsey Trinity Consultants  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

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1		Jim Coratti 3M Indianapolis 5457 W 79th St Indianapolis IN 46268 (Source CAATS) Via confirmed delivery										
2		Paul Doron Plant Mgr 3M Indianapolis 5457 W 79th St Indianapolis IN 46268 (RO CAATS)										
3		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 (Health Department)										
4		Mrs. Sandra Lee Watson 7834 E 100 S Marion IN 46953 (Affected Party)										
5		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 (Local Official)										
6		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 (Local Official)										
7		Ms. Janet McCabe Improving Kids Environment 3951 N Meridian Street Suite 160 Indianapolis IN 46208-4062 (Affected Party)										
8		Mr. David Dempsey Trinity Consultants 201 N. Illinois St, 16th Flr. South Tower Indianapolis IN 46204 (Consultant)										
9		Matt Mosier Office of Sustainability 2700 South Belmont Ave. Administration Bldg. Indianapolis IN 46221 (Local Official)										
10												
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