



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

100 N. Senate Avenue • Indianapolis, IN 46204  
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**Michael R. Pence**  
Governor

**Thomas W. Easterly**  
Commissioner

TO: Interested Parties / Applicant

DATE: February 7, 2014

RE: UT Electronic Controls, Inc. / 069-33508-00030

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

## Notice of Decision: Approval - Effective Immediately

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 IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of 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-MOD.dot 6/13/2013



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Mr. Vincent T. Williams  
UT Electronic Controls, Inc.  
3650 W. 200 N.  
Huntington, Indiana 46750

February 7, 2014

Re: 069-33508-00030  
First Minor Revision to  
M069-27290-00030

Dear Mr. Williams:

UT Electronic Controls, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal No. M069-27290-00030 on May 11, 2009 for a stationary printed circuit board manufacturer located at 3650 W. 200 N. Huntington, Indiana 46750. On August 8, 2013, the Office of Air Quality (OAQ) received an application from the source relating to:

- (a) The modification of the wave solder machines associated with Line C and Line AB;
- (b) The addition of a screen printing operation, identified as DE07;
- (c) The modification the stencil cleaner operation with Line A, identified as SC01;
- (d) The modification of the conformal coaters associated with Line C; and
- (e) The updating of the emission unit descriptions due to certain emission units being moved to different processes and being re-identified with different emission unit IDs.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit. Pursuant to the provisions of 326 IAC 2-6.1-6, these changes to the permit are required to be reviewed in accordance with the Minor Permit Revision (MPR) procedures of 326 IAC 2-6.1-6(h). Pursuant to the provisions of 326 IAC 2-6.1-6, a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.



A State that Works

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-6.1-6, this permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

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 of my staff at 317-232-8422 or 1-800-451-6027, and ask for extension 2-8422.

Sincerely,



Jason R. Krawczyk, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Technical Support Document and revised permit

JRK/cbs

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



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Governor

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Commissioner

**Minor Source Operating Permit Renewal  
OFFICE OF AIR QUALITY**

**UT Electronic Controls, Inc.  
3650 W 200 N  
Huntington, Indiana 46750**

(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.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M069-27290-00030	
Original Signed by: Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: May 11, 2009  Expiration Date: May 11, 2019

First Notice-Only Change No.: 069-30432-00030, issued on May 11, 2011  
First Administrative Amendment No.: 069-32264-00030, issued on September 26, 2012

Minor Permit Revision No.: 069-33508-00030	
Issued by:  Jason R. Krawczyk, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 7, 2014  Expiration Date: May 11, 2019

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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 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

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The Permittee owns and operates a stationary printed circuit board manufacturer.

Source Address:	3650 W 200 N, Huntington, Indiana 46750
General Source Phone Number:	260-358-0888
SIC Code:	3822
County Location:	Huntington
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary

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

- (a) Eight (8) wave solder machines, including the following:
- (1) One (1) wave solder machine with Line A, identified as ES03, constructed in 1999, with a maximum throughput rate of 250 boards per hour, and exhausting through stack #12.
  - (2) One (1) wave solder machine with Line B, identified as ES02, constructed in 1998, with a maximum throughput rate of 250 boards per hour, and exhausting through stack #51.
  - (3) One (1) wave solder machine with Line C, using water-based flux as a control, identified as ES05, constructed in 2002, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #14.
  - (4) One (1) wave solder machine with Line D, using water-based flux as a control, identified as ES04, constructed in 2001, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.
  - (5) One (1) wave solder machine with Line E, using water-based flux as a control, identified as ES07, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #16.
  - (6) One (1) wave solder machine with Line F, using water-based flux as a control, identified as ES06, constructed in 2004, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #36.
  - (7) One (1) wave solder machine with Line G, using water-based flux as a control, identified as ES08, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #4.

- (8) One (1) wave solder machine with Line AB, using silver-based solder and water-based flux as a control, identified as ES09, constructed in 2006, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #62.
- (b) Sixteen (16) coating operations, including the following:
- (1) One (1) RTV applicator with Line A, identified as PS03, constructed in 2003, and exhausting to stack #48. PS03 has both RTV and conformal coating capabilities but materials may not be dispensed by the machine simultaneously.
  - (2) Two (2) conformal coaters with Line A, identified as NS10 and PS01, constructed in 1999 and 2003, respectively, with a total maximum throughput rate of 250 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE04), controlled by dry filters, and exhausting through stack #48.
  - (3) Three (3) conformal coaters with Line B, identified as NS08, PS02, and PS05 (RTV and conformal capability) constructed in 1999, 2003, and 2009 respectively, with a total maximum throughput rate of 250 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE03), controlled by dry filters, and exhausting through stack #6.
  - (4) Two (2) conformal coaters with Line C, identified as PS04 and PS06, both constructed in 2005 and 2009 respectively, with a total maximum throughput rate of 325 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE08), controlled by dry filters, and exhausting through stack #52.
  - (5) Two (2) conformal coaters with Line D, identified as PS11 and PS12, both approved for construction in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE09), controlled by dry filters, and exhausting through stack #20.
  - (6) Two (2) conformal coaters with Line E, identified as NS07 and NS09, constructed in 1995 and 1998, respectively, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE11), controlled by dry filters, and exhausting through stack #53.
  - (7) Two (2) conformal coaters with Line F, identified as PS07 and PS08, both constructed in 1999, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE05 Heller), controlled by dry filters, and exhausting through stack #47.
  - (8) Two (2) conformal coaters with Line G, identified as PS10 and PS09, both constructed in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 12 Heller), controlled by dry filters, and exhausting through stack #58.
- (c) Nine (9) printing operations, constructed after 1995, including the following:
- (1) Two (2) screen printing operations with Line A, identified as DE07, constructed in 2013, and DE03, with a total maximum throughput rate of 325 boards per hour, each.
  - (2) Two (2) ink jet printing operations with Line D, identified as PM02 and PM03, with a total maximum throughput rate of 450 boards per hour, each.
  - (3) Two (2) ink jet printing operations with Line F, identified as PM04 and PM05, with a maximum throughput rate of 450 boards per hour, each.

- (4) Two (2) screen printing operation, identified as DE05 and DE06, both constructed in 2011, with a maximum throughput rate of 325 boards per hour.
- (5) One (1) screen printing operation with Line A, identified as DE04 bottom-side SMT Line #2, with a maximum throughput rate of 250 boards per hour.
- (d) One (1) stencil cleaner with Line A, identified as SC01, with a maximum throughput rate of 250 boards per hour.
- (e) One (1) natural gas fired humidifier, constructed in 1989, with a maximum heat input rate of 0.7 MMBtu/hr.
- (f) One (1) electric cure oven with Bottom A, identified as HE02, and exhausting through stack #64.
- (g) One (1) electric reflow oven with Top A, identified as HE07, and exhausting through stack #49.
- (h) One (1) electric reflow oven with Top B, identified as HE13, and exhausting through stack #57.
- (i) One (1) electric reflow oven with Top L, identified as HE10, and exhausting through Stack #55.
- (j) One (1) electric reflow oven with Flex Line, identified as HE06, and exhausting through Stack #46.
- (k) Two (2) Halt Chambers for testing, identified as HT01 and HT02, constructed in 1989 and 2007, respectively, and exhausting through stacks #56 and #63, respectively.
- (l) Two (2) natural gas fueled boilers, identified as Boiler 1 and Boiler 2, rated at 2.0 million British thermal units (MMBtu) per hour, each, constructed in 2008.
- (m) One (1) natural gas water heater, identified as Water Heater, rated at 2.3 million British thermal units (MMBtu) per hour, constructed in 2008.

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-1.1-1]**

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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 2-1.1-1) shall prevail.

### **B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

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- (a) This permit, M069-27290-00030, is issued for a fixed term of ten (10) 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, 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**

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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**

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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**

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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**

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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. 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 Annual Notification [326 IAC 2-6.1-5(a)(5)]**

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- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 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
- (c) The notification 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.

**B.9 Preventive Maintenance Plan [326 IAC 1-6-3]**

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- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
  - (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.The Permittee shall implement the PMPs.
- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date 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

The Permittee shall implement the PMPs.

- (c) 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.
- (d) 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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to M069-27290-00030 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

**B.12 Permit Renewal [326 IAC 2-6.1-7]**

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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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 one hundred twenty (120) days 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 2-6.1 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, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

**B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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
- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

**B.14 Source Modification Requirement**

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

**B.15 Inspection and Entry**

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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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 permitted 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 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 an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

**B.17 Annual Fee Payment [326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.
- (b) 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.18 Credible Evidence [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 2-6.1-5(a)(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 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

#### C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-1 (Applicability) and 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 forty percent (40%) 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.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

C.6 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).

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.

- (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 2-6.1-5(a)(2)]**

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

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- (a) For performance testing required by this permit, 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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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 2-6.1-5(a)(2)]**

#### **C.10 Compliance Monitoring [326 IAC 2-1.1-11]**

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Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

#### **C.11 Instrument Specifications [326 IAC 2-1.1-11]**

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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. The analog instrument shall be capable of measuring values outside of the normal range.

- (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**

#### **C.12 Response to Excursions or Exceedances**

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Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to 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 excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned or are returning 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 normal or usual manner of operation.
- (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 record the reasonable response steps taken.

#### **C.13 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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.

## **Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]**

### **C.14 Malfunctions Report [326 IAC 1-6-2]**

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

### **C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]**

- (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, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

### **C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]**

- (a) Reports required by conditions in Section D of 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

- (b) 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.

- (c) 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.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) Eight (8) wave solder machines, including the following:
  - (1) One (1) wave solder machine with Line A, identified as ES03, constructed in 1999, with a maximum throughput rate of 250 boards per hour, and exhausting through stack #12.
  - (2) One (1) wave solder machine with Line B, identified as ES02, constructed in 1998, with a maximum throughput rate of 250 boards per hour, and exhausting through stack #51.
  - (3) One (1) wave solder machine with Line C, using water-based flux as a control, identified as ES05, constructed in 2002, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #14.
  - (4) One (1) wave solder machine with Line D, using water-based flux as a control, identified as ES04, constructed in 2001, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.
  - (5) One (1) wave solder machine with Line E, using water-based flux as a control, identified as ES07, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #16.
  - (6) One (1) wave solder machine with Line F, using water-based flux as a control, identified as ES06, constructed in 2004, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #36.
  - (7) One (1) wave solder machine with Line G, using water-based flux as a control, identified as ES08, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #4.
  - (8) One (1) wave solder machine with Line AB, using silver-based solder and water-based flux as a control, identified as ES09, constructed in 2006, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #62.
- (b) Sixteen (16) coating operations, including the following:
  - (1) One (1) RTV applicator with Line A, identified as PS03, constructed in 2003, and exhausting to stack #48. PS03 has both RTV and conformal coating capabilities but materials may not be dispensed by the machine simultaneously.
  - (2) Two (2) conformal coaters with Line A, identified as NS10 and PS01, constructed in 1999 and 2003, respectively, with a total maximum throughput rate of 250 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE04), controlled by dry filters, and exhausting through stack #48.
  - (3) Three (3) conformal coaters with Line B, identified as NS08, PS02, and PS05 (RTV and conformal capability) constructed in 1999, 2003, and 2009 respectively, with a total maximum throughput rate of 250 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE03), controlled by dry filters, and exhausting through stack #6.

- (4) Two (2) conformal coaters with Line C, identified as PS04 and PS06, both constructed in 2005 and 2009 respectively, with a total maximum throughput rate of 325 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE08), controlled by dry filters, and exhausting through stack #52.
  - (5) Two (2) conformal coaters with Line D, identified as PS11 and PS12, both approved for construction in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE09), controlled by dry filters, and exhausting through stack #20.
  - (6) Two (2) conformal coaters with Line E, identified as NS07 and NS09, constructed in 1995 and 1998, respectively, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE11), controlled by dry filters, and exhausting through stack #53.
  - (7) Two (2) conformal coaters with Line F, identified as PS07 and PS08, both constructed in 1999, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE05 Heller), controlled by dry filters, and exhausting through stack #47.
  - (8) Two (2) conformal coaters with Line G, identified as PS10 and PS09, both constructed in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 12 Heller), controlled by dry filters, and exhausting through stack #58.
- (c) Nine (9) printing operations, constructed after 1995, including the following:
- (1) Two (2) screen printing operations with Line A, identified as DE07, constructed in 2013, and DE03, with a total maximum throughput rate of 325 boards per hour, each.
  - (2) Two (2) ink jet printing operations with Line D, identified as PM02 and PM03, with a total maximum throughput rate of 450 boards per hour, each.
  - (3) Two (2) ink jet printing operations with Line F, identified as PM04 and PM05, with a maximum throughput rate of 450 boards per hour, each.
  - (4) Two (2) screen printing operation, identified as DE05 and DE06, both constructed in 2011, with a maximum throughput rate of 325 boards per hour.
  - (5) One (1) screen printing operation with Line A, identified as DE04 bottom-side SMT Line #2, with a maximum throughput rate of 250 boards per hour.
- (d) One (1) stencil cleaner with Line A, identified as SC01, with a maximum throughput rate of 250 boards per hour.

(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 2-6.1-5(a)(1)]**

#### **D.1.1 Best Available Control Technology (BACT) Avoidance Limit - VOC [326 IAC 8-1-6]**

In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit VOC from SC01, to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable.

#### **D.1.2 Preventative Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan is required for these facilities and any control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

### **Compliance Determination Requirements**

#### **D.1.3 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]**

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Compliance with the VOC usage limit 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 2-6.1-5(a)(2)]**

#### **D.1.4 Record Keeping Requirements**

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- (a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (1) The VOC content of each Clean-Up Operations solvent used.
  - (2) The amount of solvent used on monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
  - (3) The total VOC usage for each month.
- (b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

#### **D.1.5 Reporting Requirements**

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A quarterly summary of the information to document the compliance status with Condition D.1.1 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligations with regard to the records required by this condition.

## SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (l) Two (2) natural gas fueled boilers, identified as Boiler 1 and Boiler 2, rated at 2.0 million British thermal units (MMBtu) per hour, each, constructed in 2008.
- (m) One (1) natural gas water heater, identified as Water Heater, rated at 2.3 million British thermal units (MMBtu) per hour, constructed in 2008.

(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 2-6.1-5(a)(1)]

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

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Pursuant to 326 IAC 6-2-4(a) (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from each of the 2.0 MMBtu/hr boilers and the one (1) water heater shall be limited to 0.6 pounds per MMBtu heat input, each.

# Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

## MSOP Quarterly Report

Source Name: UT Electronic Controls, Inc.  
Source Address: 3650 W. 200 N, Huntington, Indiana 46750  
MSOP Permit No.: M069-27290-00030  
Facility: Clean-Up Operations - Stencil Cleaner  
Parameter: VOC Input  
Limit: The input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons 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
	VOC Input (tons)	VOC Input (tons)	VOC Input (tons)
	This Month	Previous 11 Months	12 Month Total

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**MINOR SOURCE OPERATING PERMIT  
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

<b>Company Name:</b>	UT Electronic Controls, Inc.
<b>Address:</b>	3650 W 200 N
<b>City:</b>	Huntington, Indiana 46750
<b>Phone #:</b>	260-358-0888
<b>MSOP #:</b>	M069-27290-00030

I hereby certify that UT Electronic Controls, Inc. is :

still in operation.

no longer in operation.

I hereby certify that UT Electronic Controls, Inc. is :

in compliance with the requirements of MSOP M069-27290-00030.

not in compliance with the requirements of MSOP M069-27290-00030.

<b>Authorized Individual (typed):</b>
<b>Title:</b>
<b>Signature:</b>
<b>Date:</b>

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

<b>Noncompliance:</b>

### MALFUNCTION REPORT

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY FAX NUMBER: (317) 233-6865

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?\_\_\_\_\_, 25 TONS/YEAR SULFUR DIOXIDE ?\_\_\_\_\_, 25 TONS/YEAR NITROGEN OXIDES?\_\_\_\_\_, 25 TONS/YEAR VOC ?\_\_\_\_\_, 25 TONS/YEAR HYDROGEN SULFIDE ?\_\_\_\_\_, 25 TONS/YEAR TOTAL REDUCED SULFUR ?\_\_\_\_\_, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?\_\_\_\_\_, 25 TONS/YEAR FLUORIDES ?\_\_\_\_\_, 100 TONS/YEAR CARBON MONOXIDE ?\_\_\_\_\_, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?\_\_\_\_\_, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?\_\_\_\_\_, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?\_\_\_\_\_. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION \_\_\_\_\_.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC \_\_\_\_\_ OR, PERMIT CONDITION # \_\_\_\_\_ AND/OR PERMIT LIMIT OF \_\_\_\_\_

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: \_\_\_\_\_ PHONE NO. ( ) \_\_\_\_\_  
LOCATION: (CITY AND COUNTY) \_\_\_\_\_  
PERMIT NO. \_\_\_\_\_ AFS PLANT ID: \_\_\_\_\_ AFS POINT ID: \_\_\_\_\_ INSP: \_\_\_\_\_  
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: \_\_\_\_\_

DATE/TIME MALFUNCTION STARTED: \_\_\_\_/\_\_\_\_/20\_\_\_\_ \_\_\_\_\_ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: \_\_\_\_\_

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE \_\_\_\_/\_\_\_\_/20\_\_\_\_ \_\_\_\_\_ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: \_\_\_\_\_

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: \_\_\_\_\_

MEASURES TAKEN TO MINIMIZE EMISSIONS: \_\_\_\_\_

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL\* SERVICES: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: \_\_\_\_\_

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: \_\_\_\_\_

INTERIM CONTROL MEASURES: (IF APPLICABLE) \_\_\_\_\_

MALFUNCTION REPORTED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

\*SEE PAGE 2

**Please note - This form should only be used to report malfunctions  
applicable to Rule 326 IAC 1-6 and to qualify for  
the exemption under 326 IAC 1-6-4.**

**326 IAC 1-6-1 Applicability of rule**

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

**326 IAC 1-2-39 "Malfunction" definition**

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

**\*Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

Technical Support Document (TSD) for a Minor Permit Revision to a  
Minor Source Operating Permit (MSOP)

**Source Description and Location**

**Source Name:** UT Electronic Controls, Inc.  
**Source Location:** 3650 W 200 N, Huntington, Indiana 46750  
**County:** Huntington  
**SIC Code:** 3822 (Automatic Controls for Regulating Residential and Commercial Environments and Appliances)  
**Operation Permit No.:** M069-27290-00030  
**Operation Permit Issuance Date:** May 11, 2009  
**Minor Permit Revision No.:** 069-33508-00030  
**Permit Reviewer:** C. Sullivan

On August 8, 2013 the Office of Air Quality (OAQ) received an application from UT Electronic Controls, Inc. related to a modification to an existing stationary printed circuit board manufacturer.

**Existing Approvals**

The source was issued MSOP Renewal No. M069-27290-00030 on May 11, 2009. The source has since received the following approvals:

- (a) Notice-Only Change No. 069-30432-00030, issued on May 11, 2011;
- (b) Review Request No. 069-30864-00030, issued on September 9, 2011; and
- (c) Administrative Amendment No. 069-32264-00030, issued on September 26, 2012.

**County Attainment Status**

The source is located in Huntington County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Unclassifiable or attainment effective June 15, 2004, 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	Not designated.

<sup>1</sup>Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.  
 Unclassifiable or attainment effective April 5, 2005, for PM2.5.

- (a) **Ozone Standards**  
 Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) 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 NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Huntington County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

- (b) Huntington County has been classified as attainment for PM<sub>2.5</sub>. On May 8, 2008, U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM<sub>2.5</sub> emissions. These rules became effective on July 15, 2008. On May 4, 2011 the air pollution control board issued an emergency rule establishing the direct PM<sub>2.5</sub> significant level at ten (10) tons per year. This rule became effective, June 28, 2011.. Therefore, direct PM<sub>2.5</sub>, SO<sub>2</sub>, and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Other Criteria Pollutants  
 Huntington County has been classified as attainment or unclassifiable in Indiana for all pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

- (a) The fugitive emissions of criteria pollutants, hazardous air pollutants, and greenhouse gases are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

**Status of the Existing Source**

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

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)*									
	PM	PM10	PM2.5	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e*	Total HAPs	Worst Single HAP
Wave Solder Machines	0	0	0	0	0	3.12	0	--	0	--
Coating and Printing Operations	6.60	6.60	6.60	0	0	2.74	0	--	0	--
Clean Up Operations - Stencil Cleaner	0	0	0	0	0	18.84	0	--	0.11	0.11 (Toluene)
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.06 Hexane
<b>Total PTE of Entire Source</b>	<b>6.67</b>	<b>6.84</b>	<b>6.84</b>	<b>0.02</b>	<b>3.01</b>	<b>24.88</b>	<b>2.52</b>	<b>3,629</b>	<b>0.17</b>	<b>0.11 (Toluene)</b>
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10

\*These emissions are based upon Appendix A of Permit No. M069-27290-00030, issued on May 11, 2009.

\*\*The 100,000 CO<sub>2</sub>e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

### Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by UT Electronic Controls, Inc. on August 8, 2013, relating to:

- (a) The modification of the wave solder machines associated with Line C and Line AB;
- (b) The addition of a screen printing operation, identified as DE07;
- (c) The modification the stencil cleaner operation with Line A, identified as SC01;
- (d) The modification of the conformal coaters associated with Line C; and
- (e) The updating of the emission unit descriptions due to certain emission units being moved to different processes and being re-identified with different emission unit IDs.

The following is a list of the new emission units:

- (a) One (1) screen printing operation with Line A, identified as DE07, constructed in 2013, with a maximum throughput rate of 325 boards per hour.

The following is a list of the modified emission units:

- (a) One (1) wave solder machine with Line C, using water-based flux as a control, identified as ES05, constructed in 2002, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #14.
- (b) One (1) wave solder machine with Line AB, using silver-based solder and water-based flux as a control, identified as ES09, constructed in 2006, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #62.
- (c) Two (2) conformal coaters with Line C, identified as PS04 and PS06, both constructed in 2005 and 2009 respectively, with a total maximum throughput rate of 325 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE08), controlled by dry filters, and exhausting through stack #52.
- (d) One (1) stencil cleaner with Line A, identified as SC01, with a maximum throughput rate of 250 boards per hour.

### Enforcement Issues

IDEM is aware that equipment has been constructed and/or operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

### Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

### Permit Level Determination – MSOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)									
	PM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e	Total HAPs	Worst Single HAP
Wave Solder Machines*	0	0	0	0	0	(0.13)	0	--	0	--
Coating and Printing Operations	17.20	17.20	17.20	0	0	(1.71)	0	--	0	--
Stencil Cleaner**	0	0	0	0	0	8.58	0	--	(0.11)	0
Natural Gas - Boilers, Water Heater, Humidifier	0	0	0	0	0	0	0	0	0.0	0.0
Total PTE of Proposed Revision***	<b>17.20</b>	<b>17.20</b>	<b>17.20</b>	<b>0</b>	<b>0</b>	<b>8.58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000	25	10
negl. = negligible * The decrease in emissions associated with the wave solder machines is due to the reconfiguration of Line C from an automated "Pematech" line to a manual test line. **The decrease in emissions from the Stencil Cleaner (SC01) is due to removed HAP content of updated cleaner product. ***The Total PTE only reflects the increase in emissions due to the proposed revision.										

Pursuant to 326 IAC 2-6.1-6(g)(6), this MSOP is revised through Minor Permit Revision because the proposed revision involves a change for which a source requests an emission limit to avoid 326 IAC 8-1-6.

Pursuant to 326 IAC 2-6.1-6(g)(3)(A), this MSOP is revised through Minor Permit Revision because the proposed revision involves a modification that would have a potential to emit less than twenty-five (25) tons per year and equal to or greater than five (5) tons per year of PM, PM<sub>10</sub>, and direct PM<sub>2.5</sub>.

**PTE of the Entire Source After Issuance of the MSOP Revision**

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2e</sub> ***	Total HAPs	Worst Single HAP
Wave Solder Machines	0	0	0	0	0	<del>3.12</del> <b>2.99</b>	0	--	0	0
Coating and Printing Operations	<del>6.60</del> <b>23.81</b>	<del>6.60</del> <b>23.81</b>	<del>6.60</del> <b>23.81</b>	0	0	<del>2.74</del> 1.03	0	--	0	0
Stencil Cleaner**	0	0	0	0	0	<del>18.84</del> <b>24.90</b>	0	--	<del>0.11</del> <b>0</b>	<del>0.11</del> <b>0</b> (Toluene)
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.06 (Hexane)
Total PTE of Entire Source	<del>6.66</del> <b>23.87</b>	<del>6.84</del> <b>24.04</b>	<del>6.84</del> <b>24.04</b>	0.02	3.01	<del>24.88</del> <b>29.08</b>	2.52	3,629	<del>0.17</del> <b>0.06</b>	<del>0.11</del> <b>0.06</b> (Toluene) (Hexane)
Title V Major Source Thresholds***	NA	100	100	100	100	100	100	100,000	25	10

negl. = negligible  
\*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".  
\*\*In order to render the requirements of 326 IAC 8-1-6 not applicable, the VOC emissions from Clean Up Operations- Stencil Cleaner, identified as SC01, shall not exceed 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.  
\*\*\*The 100,000 CO<sub>2e</sub> threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this MSOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit VOC from SC01, to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)									
	PM	PM10*	PM2.5*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	GHGs as CO <sub>2</sub> e****	Total HAPs	Worst Single HAP
Wave Solder Machines	0	0	0	0	0	2.99	0	--	0	--
Coating and Printing Operations	23.81	23.81	23.81	0	0	1.03	0	--	0	--
Stencil Cleaner **	0	0	0	0	0	24.90	0	--	0.00	--
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.06 (Hexane)
Total PTE of Entire Source	23.87	24.04	24.04	0.02	3.01	29.08	2.52	3,629	0.06	0.06 (Hexane)
Title V Major Source Thresholds***	NA	100	100	100	100	100	100	100,000	25	10

negl. = negligible  
\*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".  
\*\*In order to render the requirements of 326 IAC 8-1-6 not applicable, the VOC emissions from Clean Up Operations- Stencil Cleaner, identified as SC01, shall not exceed 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.  
\*\*\*The 100,000 CO<sub>2</sub>e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.

**MSOP Status**

- (a) This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).
- (b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit greenhouse gases (GHGs) will still be less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO<sub>2</sub> equivalent emissions (CO<sub>2</sub>e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

**Federal Rule Applicability Determination**

New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

<b>State Rule Applicability Determination</b>
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The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))  
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new/modified units is 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.
- (d) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 326 IAC 5-1 (Opacity Limitations)  
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:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) 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.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.
- (g) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

The unlimited potential to emit VOC from the one (1) stencil cleaner with Line A, identified as SC01, is greater than twenty-five (25) tons per year and construction commence after January 1, 1980. However, the source shall limit the VOC potential emissions from the one (1) stencil cleaner with Line A, identified as SC01, to less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 do not apply.

In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit VOC from SC01, to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable.

- (h) There are no other 326 IAC 8 Rules that are applicable to the new/modified units.

### Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP Renewal No: M069-27290-00030, issued on May 11, 2009.

### Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strike through~~ text and new language appears as **bold** text:

#### A.2 Emission Units and Pollution Control Equipment Summary

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

- ...
- (a) Eight (8) wave solder machines, including the following:
- ...
- (3) One (1) wave solder machine with Line C, using water-based flux as a control, identified as ES05, constructed in 2002, with a maximum throughput rate of ~~450~~ **325** boards per hour, and exhausting through stack #14.
- (4) One (1) wave solder machine with Line D, using water-based flux as a control, identified as ~~ES06~~ **ES04**, constructed in ~~2005~~ **2001**, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.
- (5) One (1) wave solder machine with Line E, using water-based flux as a control, identified as ~~ES04~~ **ES07**, constructed in ~~2004~~ **2005**, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #16.
- (6) One (1) wave solder machine with Line F, using water-based flux as a control, identified as ~~ES07~~ **ES06**, constructed in 2004, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #36.
- ...
- (8) One (1) wave solder machine with Line AB, using silver-based solder and water-based flux as a control, identified as ES09, constructed in 2006, with a maximum throughput rate of ~~450~~ **325** boards per hour, and exhausting through stack #62.
- (b) ~~Eighteen (18)~~ **Sixteen (16)** coating operations, including the following:
- ...
- (3) ~~Two (2)~~ **Three (3)** conformal coaters with Line B, identified as NS08, and PS02, and **PS05 (RTV and conformal capability)** constructed in 1999, and 2003, and **2009** respectively, with a total maximum throughput rate of 250 boards per hour,

using airless spray equipment, equipped with an electric cure oven (HE03), controlled by dry filters, and exhausting through stack #6.

- (4) Two (2) conformal coaters with Line C, identified as ~~NS05~~ **PS04** and ~~NS06~~ **PS06**, both constructed in ~~1999~~ **2005 and 2009 respectively**, with a total maximum throughput rate of ~~450~~ **325** boards per hour, using airless spray equipment, equipped with an electric cure oven (HE08), controlled by dry filters, and exhausting through stack #52.
  - (5) Two (2) conformal coaters with Line D, identified as ~~PS07~~ **PS11** and ~~PS08~~ **PS12**, both approved for construction in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE05~~) (**HE09**), controlled by dry filters, and exhausting through stack #20.
  - (6) Two (2) conformal coaters with Line E, identified as ~~NS03~~ **NS07** and ~~NS04~~ **NS09**, constructed in 1995 and 1998, respectively, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE09~~) (**HE11**), controlled by dry filters, and exhausting through stack #53.
  - ~~(7) One (1) C-740 machine (serial number 740-5845) with Line E, constructed in 2005, used for prototype testing, with a maximum production rate of 100 boards per day and maximum coating usage of 0.099 gallons per hour, and exhausting through Stack #53.~~
  - (87) Two (2) conformal coaters with Line F, identified as ~~NS07~~ **PS07** and ~~NS09~~ **PS08**, both constructed in 1999, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE-11 Heller~~) (**HE05 Heller**), controlled by dry filters, and exhausting through stack #47.
  - (98) Two (2) conformal coaters with Line G, identified as ~~PS04~~ **PS10** and ~~PS05~~ **PS09**, both constructed in ~~2005~~ **2012**, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 12 Heller), controlled by dry filters, and exhausting through stacks #6 and #58, respectively. ~~PS04 has both RTV and conformal coating capabilities but materials may not be dispensed by the machine simultaneously.~~
  - ~~(10) Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.~~
- (c) ~~Eight (8)~~ **Nine (9)** printing operations, constructed after 1995, including the following:
- (1) Two (2) screen printing operations with Line A, identified as ~~DE02~~ **DE07**, **constructed in 2013**, and DE03, with a total maximum throughput rate of 325 boards per hour, each.  
...
  - (4) ~~One (1)~~ **Two (2)** screen printing operation, identified as ~~DE04~~ **DE05 and DE06**, **constructed in 2011 and 2012**, respectively, with a maximum throughput rate of 325 boards per hour.  
...
- (d) ~~Operations using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs:~~
- ~~(1) One (1) stencil cleaner with Line A, identified as SC01, with a maximum throughput rate of 250 boards per hour.~~

...

- (f) One (1) electric cure oven with Bottom A, identified as HE02, and exhausting through stack #64.

...

- ~~(n) One (1) Conformal Coater, identified as PS06, to be constructed in 2009, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven, identified as HE12, controlled by dry filters, and exhausting through Stack # 58.~~

...

#### SECTION D.1

#### EMISSIONS UNIT OPERATION CONDITIONS

##### Emissions Unit Description:

- (a) Eight (8) wave solder machines, including the following:
  - ...
  - (3) One (1) wave solder machine with Line C, using water-based flux as a control, identified as ES05, constructed in 2002, with a maximum throughput rate of ~~450~~ **325** boards per hour, and exhausting through stack #14.
  - (4) One (1) wave solder machine with Line D, using water-based flux as a control, identified as ~~ES06~~ **ES04**, constructed in ~~2005~~ **2001**, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.
  - (5) One (1) wave solder machine with Line E, using water-based flux as a control, identified as ~~ES04~~ **ES07**, constructed in ~~2004~~ **2005**, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #16.
  - (6) One (1) wave solder machine with Line F, using water-based flux as a control, identified as ~~ES07~~ **ES06**, constructed in 2004, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #36.
  - ...
  - (8) One (1) wave solder machine with Line AB, using silver-based solder and water-based flux as a control, identified as ES09, constructed in 2006, with a maximum throughput rate of ~~450~~ **325** boards per hour, and exhausting through stack #62.
- (b) ~~Eighteen (18)~~ **Sixteen (16)** coating operations, including the following:
  - ...
  - (3) ~~Two (2)~~ **Three (3)** conformal coaters with Line B, identified as NS08, and PS02, **and PS05 (RTV and conformal capability)** constructed in 1999, and 2003, **and 2009** respectively, with a total maximum throughput rate of 250 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE03), controlled by dry filters, and exhausting through stack #6.
  - (4) Two (2) conformal coaters with Line C, identified as ~~NS05~~ **PS04** and ~~NS06~~ **PS06**, both constructed in ~~1999~~ **2005 and 2009 respectively**, with a total maximum throughput rate of ~~450~~ **325** boards per hour, using airless spray equipment, equipped with an electric cure oven (HE08), controlled by dry filters, and exhausting through stack #52.
  - (5) Two (2) conformal coaters with Line D, identified as ~~PS07~~ **PS11** and ~~PS08~~ **PS12**, both approved for construction in 2012, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE05~~) **(HE09)**, controlled by dry filters,

and exhausting through stack #20.

- (6) Two (2) conformal coaters with Line E, identified as ~~NS03~~ **NS07** and ~~NS04~~ **NS09**, constructed in 1995 and 1998, respectively, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE09~~) (**HE11**), controlled by dry filters, and exhausting through stack #53.
- ~~(7) One (1) C-740 machine (serial number 740-5845) with Line E, constructed in 2005, used for prototype testing, with a maximum production rate of 100 boards per day and maximum coating usage of 0.099 gallons per hour, and exhausting through Stack #53.~~
- ~~(8)~~ **7** Two (2) conformal coaters with Line F, identified as ~~NS07~~ **PS07** and ~~NS09~~ **PS08**, both constructed in 1999, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (~~HE 11 Heller~~) (**HE05 Heller**), controlled by dry filters, and exhausting through stack #47.
- ~~(9)~~ **8** Two (2) conformal coaters with Line G, identified as ~~PS04~~ **PS10** and ~~PS05~~ **PS09**, both constructed in ~~2005~~ **2012**, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 12 Heller), controlled by dry filters, and exhausting through stacks #6 and #58, respectively. ~~PS04 has both RTV and conformal coating capabilities but materials may not be dispensed by the machine simultaneously.~~
- ~~(10) Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.~~
- (c) ~~Eight (8)~~ **Nine (9)** printing operations, constructed after 1995, including the following:
  - (1) Two (2) screen printing operations with Line A, identified as ~~DE02~~ **DE07**, **constructed in 2013**, and DE03, with a total maximum throughput rate of 325 boards per hour, each.
  - ...
  - (4) ~~One (1)~~ **Two (2)** screen printing operation, identified as ~~DE04~~ **DE05 and DE06, both constructed in 2011**, with a maximum throughput rate of 325 boards per hour.
  - ...
- (d) ~~Operations using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs:~~
  - ~~(1) One (1) stencil cleaner with Line A, identified as SC01, with a maximum throughput rate of 250 boards per hour.~~

(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 2-6.1-5(a)(1)]**

### **D.1.1 Best Available Control Technology (BACT) Avoidance Limit - VOC [326 IAC 8-1-6]**

In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this limit shall limit the potential to emit VOC from SC01, to less than twenty-five (25) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) not applicable.

### **D.1.12 Preventative Maintenance Plan [326 IAC 2-8-4(9)]**

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B – Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

## **Compliance Determination Requirements**

### **D.1.3 Volatile Organic Compounds (VOC)[326 IAC 8-1-2] [326 IAC 8-1-4]**

Compliance with the VOC usage limit 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 2-6.1-5(a)(2)]**

### **D.1.4 Record Keeping Requirements**

(a) To document the compliance status with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

- (1) The VOC content of each Clean-Up Operations solvent used.
- (2) The amount of solvent used on monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
- (3) The total VOC usage for each month.

(b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligations with regard to the records required by this condition.

### **D.1.5 Reporting Requirements**

A quarterly summary of the information to document the compliance status with Condition D.1.1 shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligations with regard to the records required by this condition.

...

## Indiana Department of Environmental Management Office of Air Quality Compliance and Enforcement Branch

### MSOP Quarterly Report

**Source Name:** UT Electronic Controls, Inc.  
**Source Address:** 3650 W. 200 N, Huntington, Indiana 46750  
**MSOP Permit No.:** M069-27290-00030  
**Facility:** Clean-Up Operations - Stencil Cleaner  
**Parameter:** VOC Input  
**Limit:** The input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons 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
	VOC Input (tons)	VOC Input (tons)	VOC Input (tons)
	This Month	Previous 11 Months	12 Month Total

**Form Completed by:** \_\_\_\_\_  
**Title / Position:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**Phone:** \_\_\_\_\_

...

<b>Conclusion and Recommendation</b>
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Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on August 8, 2013 with additional information received on September 27, 2013, November 20, 2013 and December 17, 2013.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Permit Revision No. 069-33508-00030. The staff recommends to the Commissioner that this MSOP Minor Permit Revision be approved.

<b>IDEM Contact</b>
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- (a) Questions regarding this proposed permit can be directed to Charles Sullivan at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8422 or toll free at 1-800-451-6027 extension 2-8422.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.in.gov/idem](http://www.in.gov/idem)

**Appendix A: Emission Calculations  
Summary**

**Company Name:** UT Electronic Controls, Inc.  
**Address:** 3650 W 200 N, Huntington, IN 46750  
**Permit No.** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

**POTENTIAL TO EMIT IN TONS PER YEAR**

Emission Units	PM	PM10	PM2.5	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e	HAPs	Single Highest
										HAP (Hexane)
Wave Solder Machines	0	0	0	0	0	2.99	0	--	0	0
Coating and Printing Operations	23.81	23.81	23.81	0	0	1.03	0	--	0	0
Stencil Cleaner*	0	0	0	0	0	24.90	0	--	0	0
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.05
<b>Total</b>	<b>23.87</b>	<b>24.04</b>	<b>24.04</b>	<b>0.02</b>	<b>3.01</b>	<b>29.08</b>	<b>2.52</b>	<b>3,629</b>	<b>0.06</b>	<b>0.05</b>

\*Note: In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

**Appendix A: Emission Calculations  
Summary**

**REVISION SUMMARY**

**Company Name:** UT Electronic Controls, Inc.  
**Address:** 3650 W 200 N, Huntington, IN 46750  
**Permit No.** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

Unlimited Potential to Emit Before Revision

POTENTIAL TO EMIT IN TONS PER YEAR										Single Highest
Emission Units	PM	PM10	PM2.5	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e	HAPs	HAP (Toluene)
Wave Solder Machines	0	0	0	0	0	3.12	0	--	0	0
Coating and Printing Operations	6.60	6.60	6.60	0	0	2.74	0	--	0	0
Clean Up Operations - Stencil Cleaner	0	0	0	0	0	18.84	0	--	0.11	0.11
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	1.02E-04
<b>Total</b>	<b>6.66</b>	<b>6.84</b>	<b>6.84</b>	<b>0.02</b>	<b>3.01</b>	<b>24.88</b>	<b>2.52</b>	<b>3,629</b>	<b>0.17</b>	<b>0.11</b>

Unlimited Potential to Emit After Revision

POTENTIAL TO EMIT IN TONS PER YEAR										Single Highest
Emission Units	PM	PM10	PM2.5	SO <sub>2</sub>	NOx	VOC	CO	GHGs as CO <sub>2</sub> e	HAPs	HAP (Hexane)
Wave Solder Machines	0	0	0	0	0	2.99	0	--	0	0
Coating and Printing Operations	23.81	23.81	23.81	0	0	1.03	0	--	0	0
Clean Up Operations - Stencil Cleaner	0	0	0	0	0	27.43	0	--	0.00	0
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.05
<b>Total</b>	<b>23.87</b>	<b>24.04</b>	<b>24.04</b>	<b>0.02</b>	<b>3.01</b>	<b>31.61</b>	<b>2.52</b>	<b>3,629</b>	<b>0.06</b>	<b>0.05</b>

<b>Total Change in Unlimited PTE</b>	<b>17.20</b>	<b>17.20</b>	<b>17.20</b>	<b>0.00</b>	<b>0.00</b>	<b>8.58</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
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**Note:**

The Total Change in Unlimited PTE only reflects the increase in emissions due to the proposed revision.

Limited Potential to Emit After Revision

POTENTIAL TO EMIT IN TONS PER YEAR										Single Highest
Emission Units	PM	PM10	PM2.5	SO <sub>2</sub>	NOx	VOC*	CO	GHGs as CO <sub>2</sub> e	HAPs	HAP (Hexane)
Wave Solder Machines	0	0	0	0	0	2.99	0	--	0	0
Coating and Printing Operations	23.81	23.81	23.81	0	0	1.03	0	--	0	0
Clean Up Operations - Stencil Cleaner	0	0	0	0	0	24.90	0	--	0.00	0
Natural Gas - Boilers, Water Heater, Humidifier	0.06	0.23	0.23	0.02	3.01	0.17	2.52	3,629	0.06	0.05
<b>Total</b>	<b>23.87</b>	<b>24.04</b>	<b>24.04</b>	<b>0.02</b>	<b>3.01</b>	<b>29.08</b>	<b>2.52</b>	<b>3,629</b>	<b>0.06</b>	<b>0.05</b>

**Note:**

\*In order to render the requirements of 326 IAC 8-1-6 not applicable, the input of VOC to the one (1) stencil cleaner with Line A, identified as SC01, shall be less than 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

**Appendix A: Emission Calculations  
Wave Solder Machines**

**Company Name:** UT Electronic Controls, Inc.  
**Address:** 3650 W 200 N, Huntington, IN 46750  
**Permit No.** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

VOC emissions from solder wax flux usage:

Line ID	Unit	Density (lb/gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (units/hour)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hour)	PTE of VOC (lbs/day)	PTE of VOC (tons/year)
A	ES03	8.44	100.0%	96.0%	4.0%	250	0.001146	0.34	0.10	2.3	0.42
B	ES02	8.44	100.0%	96.0%	4.0%	250	0.001146	0.34	0.10	2.3	0.42
C	ES05	8.44	100.0%	96.0%	4.0%	325	0.000913	0.34	0.10	2.4	0.44
D	ES04	8.44	100.0%	96.0%	4.0%	450	0.000330	0.34	0.05	1.2	0.22
E	ES07	8.44	100.0%	96.0%	4.0%	450	0.000330	0.34	0.05	1.2	0.22
F	ES06	8.44	100.0%	96.0%	4.0%	450	0.000330	0.34	0.05	1.2	0.22
G	ES08	8.44	100.0%	96.0%	4.0%	450	0.000913	0.34	0.14	3.3	0.61
AB	ES09	8.44	100.0%	96.0%	4.0%	325	0.000913	0.34	0.10	2.4	0.44
	<b>Total</b>								<b>0.68</b>		<b>2.99</b>

The solder machines are similar to flow coaters and the particulate emissions from these units are negligible.

**METHODOLOGY**

Pounds of VOC per Gallon Coating = Density (lb/gal) \* Weight % Organics

PTE of VOC (lbs/hour) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 24 hours/day

PTE of VOC (tons/year) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
VOC Emissions  
From the Coating and Printing Operations**

**Company Name:** UT Electronic Controls, Inc.  
**Address:** 3650 W 200 N, Huntington, IN 46750  
**Permit No.** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

Material	Density (lb/gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (units/hour)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hour)	PTE of VOC (lbs/day)	PTE of VOC (tons/year)	PTE of PM/PM10/PM2.5 (lbs/hour)	PTE of PM/PM10/P M2.5 (tons/year)	*Transfer Efficiency (%)
Comfomal Coating	8.18	0.60%	0.0%	0.60%	3650	4.58E-04	0.05	0.08	1.97	0.36	5.44	23.81	60%
Ink Jek Printing	8.93	65.17%	0.0%	65.17%	3200	2.20E-06	5.82	0.04	0.98	0.18	0.00	0.00	100%
Alpha / Indium Solder Paste	60.00	10.00%	0.0%	10.00%	3200	4.60E-06	6.00	0.09	2.12	0.39	0.00	0.00	100%
RTV 3145 Adhesive	9.18	3.10%	0.0%	3.10%	3200	1.87E-05	0.28	0.02	0.41	0.07	0.00	0.00	100%
Loctite Adhesive	11.10	1.00%	0.0%	1.00%	3200	8.00E-07	0.11	0.00	0.01	0.00	0.00	0.00	100%
Varnish	10.01	28.50%	0.0%	28.50%	3200	6.00E-07	2.85	0.01	0.13	0.02	0.00	0.00	100%
<b>Total</b>										<b>1.03</b>		<b>23.81</b>	

\* The transfer efficiencies were provided by the source. Assumed PM = PM10 = PM25.

**METHODOLOGY**

Pounds of VOC per Gallon Coating = Density (lb/gal) \* Weight % Organics

PTE of VOC (lbs/hour) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 24 hours/day

PTE of VOC (tons/year) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 8760 hours/year \* 1 ton/2000 lbs

PTE of PM/PM10/PM2.5 (lbs/hour) = Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* Density (lbs/gal) \* (1- Weight % Volatile) \* (1-Transfer Efficiency %)

PTE of PM/PM10/PM2.5 (tons/year) = Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* Density (lbs/gal) \* (1- Weight % Volatile) \* (1-Transfer Efficiency %) \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Stencil Cleaner (SC01)**

**Company Name:** UT Electronic Controls, Inc.  
**Address:** 3650 W 200 N, Huntington, IN 46750  
**Permit No.** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

Material	Density (lb/gal)	Weight % Volatile (H <sub>2</sub> O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (units/hour)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hour)	PTE of VOC (lbs/day)	PTE of VOC (tons/year)
Isopropyl Alcohol	6.55	100.00%	0.0%	100.00%	3200	0.0001843	6.55	3.86	92.7	16.9
OS-30	7.09	100.00%	0.0%	100.00%	3200	0.0001000	7.09	2.27	54.45	9.94
Vigon SC-202 Cleaner	8.26	100.00%	75.0%	25.00%	3200	0.0000175	2.07	0.12	2.78	0.51
1250 Ink Thinner	7.41	100.00%	0.0%	100.00%	3200	0.0000006	7.41	0.01	0.34	0.06

**Total VOC Emissions = 27.4 tons/yr**  
**Total HAP Emissions = 0.00 tons/yr**

**Note:**

None of the solvents used in the Stencil Cleaner with Line A (SC01) contain HAPs.

**Methodology:**

Pounds of VOC per Gallon Coating = Density (lb/gal) \* Weight % Organics

PTE of VOC (lbs/hour) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 24 hours/day

PTE of VOC (tons/year) = Pounds of VOC per Gallon Coating (lb/gal) \* Maximum Throughput (units/hour) \* Maximum Usage (gal/unit) \* 8760 hours/year \* 1 ton/2000 lbs

**Appendix A: Emissions Calculations**  
**Natural Gas Combustion Only**  
**MM BTU/HR <100**

**Company Name:** UT Electronic Controls, Inc.  
**Address City IN Zip:** 3650 W 200 N, Huntington, IN 46750  
**Permit Number:** 069-33508-00030  
**Reviewer:** C. Sullivan  
**Date:** November 15, 2013

Boiler 1 and Boiler 2 rated at 2.0 MMBtu/hr, each  
 Water heater rated at 2.3 MMBtu/hr  
 Humidifier rated at 0.7 MMBtu/hr  
 Total (MMBtu/hr) : 7.0

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
7.0	1020	60.1

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.06	0.23	0.23	0.02	3.01	0.17	2.52

\*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.  
 PM2.5 emission factor is filterable and condensable PM2.5 combined.  
 \*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03  
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**HAPS Calculations**

Emission Factor in lb/MMcf	HAPs - Organics					
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene	Total - Organics
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03	
Potential Emission in tons/yr	6.312E-05	3.607E-05	2.254E-03	5.411E-02	1.022E-04	5.656E-02

Emission Factor in lb/MMcf	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	Total - Metals
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.503E-05	3.306E-05	4.208E-05	1.142E-05	6.312E-05	1.647E-04
					<b>Total HAPs</b>	<b>5.673E-02</b>
					<b>Worst HAP</b>	<b>5.411E-02</b>

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.  
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Greenhouse Gas Calculations**

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	3,607	0.1	0.1
Summed Potential Emissions in tons/yr	3,607		
CO2e (tons/yr) based on 10/30/2009 federal GWPs	3,629		
CO2e (tons/yr) based on 11/29/2013 federal GWPs	3,628		

**Methodology**

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.  
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.  
 Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton  
 CO2e (tons/yr) based on 10/30/2009 federal GWPs = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).  
 CO2e (tons/yr) based on 11/29/2013 federal GWPs = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O Potential Emission ton/yr x N2O GWP (298).



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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

**Michael R. Pence**  
*Governor*

**Thomas W. Easterly**  
*Commissioner*

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TO: Vincent T. Williams  
UT Electronic Controls, Inc.  
3650 W 200 N  
Huntington, IN 46750

DATE: February 7, 2014

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

SUBJECT: Final Decision  
Minor Permit Revision to a Minor Source Operating Permit (MSOP)  
069-33508-00030

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:  
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 6/13/2013

# Mail Code 61-53

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3		Huntington County Board of Commissioners 354 N. Jefferson St. Suite 201 Huntington IN 46750 (Local Official)										
4		Frederick & Iva Moore 6019 W 650 N Ligonier IN 46767 (Affected Party)										
5		Ms. Mary Shipley 10968 E 100 S Marion IN 46953 (Affected Party)										
6		Huntington County Health Department 354 N. Jefferson Street, Suite 201 Huntington IN 46750 (Health Department)										
7		Melvin & Deborah Gillespie 5616 N 200 E Huntington IN 46750 (Affected Party)										
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<b>6</b>			