INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
*We make Indiana a cleaner, healthier place to live.*

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

*Thomas W. Easterly*
*Commissioner*

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: December 7, 2005

RE: United Technologies / 069-21950-00030

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

## Notice of Decision – Approval

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

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot 1/10/05

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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December 7, 2005

Ms. Brenda Carter
United Technologies (UT) Electronic Controls, Inc.
3650 West 200 North
Huntington, Indiana 46750-9002

Re: 069-21950-00030
Sixth (6th) Notice-only change to
MSOP No.: 069-16982-00030

Dear Ms. Carter:

United Technologies (UT) Electronic Controls, Inc. was issued Minor Source Operating Permit No. 069-16982-00030 on March 17, 2004 for a stationary printed electric circuit boards manufacturing plant. A letter notifying the Office of Air Quality of proposed changes at the Huntington facility was received on November 3, 2005. The changes involve the addition of one (1) Nordson Coating Machine on existing Line E for prototype testing with a maximum production rate of 100 boards per day and a maximum coating usage rate of 0.099 gallons per hour; and the use of water-based flux in the wave solder machines used in conjunction with Line F and Line G. The potential to emit of VOC and particulate from the addition of one (1) Nordson Coating Machine on existing Line E is equal to 0.14 and 0.39 tons per year, respectively (see Appendix A). There are no VOC emissions associated with the use of water-based flux in the wave solder machines used in conjunction with Line F and Line G. There are no state or federal requirements applicable to the one (1) Nordson Coating Machine on Existing line E.

After these changes, the potential to emit of each criteria pollutant from the entire source remains less than 100 tons per year. Therefore, these changes are classifiable as a notice-only change, pursuant to 326 IAC 2-6.1-6(d)(10). Pursuant to the provisions of 326 IAC 2-6.1-6 the permit is hereby revised as follows:

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) Seven (7) wave solder machines, including the following:

. . .

(6) One (1) wave solder machine with Line F **using water-based flux**, identified as ES07, 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**, identified as ES08, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #4.

(b) ~~Seventeen (17)~~ **Eighteen (18)** coating operations, including the following:

**(6) One (1) Nordson Coating Machine with Line E 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 at Stack #53.**

(~~6~~**7**) Two (2) conformal coaters with Line F, identified as NS07 and PS04, constructed in 1999 and 2005, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 11 Heller), controlled by dry filters, and exhausting through stack #47.

(~~7~~**8**) Two (2) conformal coaters with Line G, identified as NS09 and PS05, constructed in 1999 and 2005, 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.

(~~8~~**9**) Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.

(~~9~~**10**) One (1) RTV applicator with Line A, identified as PS03, constructed in 2003.

All other conditions of the permit shall remain unchanged and in effect. Attached please find a copy of the revised permit and updated calculations (Appendix A).

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanober Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original signed by

Nysa L. James, Section Chief
Permits Branch
Office of Air Quality

Attachments

ERG/SD

cc: File – Huntington County
U.S. EPA, Region V
Huntington County Health Department
Air Compliance Section Inspector – Ryan Hillman
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner

*Mitchell E. Daniels, Jr.*
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*Thomas W. Easterly*
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# MINOR SOURCE OPERATING PERMIT
# OFFICE OF AIR QUALITY

## United Technologies Electronic Controls, Inc.
## 3650 West 200 North
## Huntington, Indiana 46750

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units 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.

| | |
|---|---|
| Operation Permit No.: MSOP 069-16982-00030 | |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Quality | Issuance Date: March 17, 2004<br><br>Expiration Date: March 17, 2009 |

1st Notice Only Change No.: 069-18982-00030, Issued June 11, 2004
2nd Notice Only Change No.: 069-19545-00030, Issued September 24, 2004
3rd Notice Only Change No.: 069-19777-00030, Issued December 29, 2004
4th Notice Only Change No.: 069-20197-00030, Issued January 25, 2004
5th Notice Only Change No.: 069-20285-00030, Issued February 15, 2005
First Minor Permit Revision No. 069-21336-00030, issued August 11, 2005

| | |
|---|---|
| 6th Notice Only Change No.:<br>069-21950-00030 | Pages Affected: 3 and 4 |
| Original signed by:<br>Nysa L. James, Section Chief<br>Permits Branch<br>Office of Air Quality | Issuance Date: December 7, 2005<br><br>Expiration Date: March 17, 2009 |

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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)]

The Permittee owns and operates a stationary electric circuit board manufacturing plant.

| | |
|---|---|
| Authorized Individual: | Plant Manager |
| Source Address: | 3650 West 200 North, Huntington, Indiana 46750 |
| Mailing Address: | 3650 West 200 North, Huntington, Indiana 46750 |
| General Source Phone: | (260) 358-0888 |
| SIC Code: | 3822 |
| County Location: | Huntington |
| Source Location Status: | Attainment for all criteria pollutants |
| Source Status: | Minor Source Operating Permit<br>Minor Source, under PSD Rules<br>Minor Source, Section 112 of the Clean Air Act<br>Not 1 of 28 Source Categories |

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

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) Seven (7) wave solder machines, including the following:

(1) One (1) wave solder machines with Line A, identified as ES03, constructed in 1999, with a maximum throughput rate of 250 boards per hour, and exhausting through stacks #12.

(2) One (1) wave solder machines with Line B, identified as ES02, constructed in 1998, with a maximum throughput rate of 250 boards per hour, and exhausting through stacks #51.

(3) One (1) wave solder machine with Line C, identified as ES05, constructed in 2002, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #14.

(4) One (1) wave solder machine with Line D, identified as ES06, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.

(5) One (1) wave solder machine with Line E, identified as ES04, constructed in 2001, 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, identified as ES07, 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, identified as ES08, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #4.

(b) Eighteen (18) coating operations, including the following:

(1) Two (2) conformal coaters with Line A, identified as NS10 and PS02, constructed in 1999 and 2003, 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.

(2) Two (2) conformal coaters with Line B, identified as NS08 and PS01, constructed in 1999 and 2003, 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.

(3) Two (2) conformal coaters with Line C, identified as NS05 and NS06, 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 (HE08), controlled by dry filters, and exhausting through stack #52.

(4) Two (2) conformal coaters with Line D, identified as NS01 and NS02, both constructed in 1995, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE05), controlled by dry filters, and exhausting through stack #20.

(5) Two (2) conformal coaters with Line E, identified as NS03 and NS04, constructed in 1995 and 1998, 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 #53.

(6) One (1) Nordson Coating Machine with Line E 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 at Stack #53.

(7) Two (2) conformal coaters with Line F, identified as NS07 and PS04, constructed in 1999 and 2005, with a total maximum throughput rate of 450 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 11 Heller), controlled by dry filters, and exhausting through stack #47.

(8) Two (2) conformal coaters with Line G, identified as NS09 and PS05, constructed in 1999 and 2005, 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.

(9) Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.

(10) One (1) RTV applicator with Line A, identified as PS03, constructed in 2003.

(c) Nine (9) printing operations, constructed after 1995, including the following:

(1) Two (2) screen printing operations with Line A, identified as DE02 and DE03, with a total maximum throughput rate of 325 boards per hour.

(2) One (1) ink jet printing operation with Line B, identified as PM01, with a maximum throughput rate of 250 boards per hour.

(3) 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.

(4) Two (2) ink jet printing operations with Line F, identified as PM04 and PM05, with a maximum throughput rate of 450 boards per hour.

(5) One (1) screen printing operation, identified as DE01, with a maximum throughput rate of 325 boards per hour.

(6) One (1) screen printing operation with Line A, identified as bottom-side SMT Line #2, with a maximum throughput rate of 250 boards per hour.

(d) Two (2) natural gas fired boilers, constructed in 1989, each with a maximum heat input rate of 2.4 MMBtu/hr.

(e) 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) natural gas fired humidifier, constructed in 1989, with a maximum heat input rate of 0.7 MMBtu/hr.

(g) One (1) natural gas fired water heater, constructed in 1989, with a maximum heat input rate of 0.5 MMBtu/hr.

(h) Two (2) electric cure ovens with Line A, identified as HE02 and HE01, and exhausting through stacks #55 and #57, respectively.

(i) Two (2) electric reflow ovens with Line A, identified as HE10 and HE07, and exhausting through stacks #18 and #49, respectively.

(j) One (1) electric reflow oven, identified as HE06, and exhausting through stack #46.

## SECTION B GENERAL CONDITIONS

### B.1 Permit No Defense [IC 13]

This permit to construct and operate 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.

### B.2 Definitions

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.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

### B.4 Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.

The Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

### B.5 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled “Minor Source Operating Permit”, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

### B.6 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted 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) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue
Indianapolis, IN 46204-2251

(d) 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.7 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each emissions unit:

(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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.

(c) A copy of the PMP's 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 PMP whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.9 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] [IC13-17-3-2] [IC13-30-3-1]

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 this title or the conditions of this permit or any operating permit revisions;

(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 processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(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.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

B.11 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.

(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.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### 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 5-1-3 (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 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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.5 Compliance Requirements [326 IAC 2-1.1-11]

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**

C.6 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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

**Record Keeping and Reporting Requirements**

C.7 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.8 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, all record keeping requirements not already legally required shall be implemented when operation begins.

C.9 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 Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 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) Unless otherwise specified in this permit, any reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

**Facility Description [326 IAC 2-6.1]:**

(d) Two (2) natural gas fired boilers, constructed in 1989, each with a maximum heat input rate of 2.4 MMBtu/hr.

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

### Emission Limitations and Standards

D.1.1 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (a)(Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from each of the 2.4 MMBtu/hr boiler shall be limited to 0.6 pounds per MMBtu heat input.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
**OFFICE OF AIR QUALITY**
**COMPLIANCE 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).

| | |
|---|---|
| Company Name: | United Technologies Electronic Controls, Inc. |
| Address: | 3650 West 200 North |
| City: | Huntington, Indiana 46750 |
| Phone #: | (260) 358-0888 |
| MSOP #: | 069-16982-00030 |

I hereby certify that United Technologies Electronic Controls, Inc. is ☐still in operation.
☐ no longer in operation.

I hereby certify that United Technologies Electronic Controls, Inc. is ☐ in compliance with the requirements of MSOP 069-16982-00030
☐ not in compliance with the requirements of MSOP 069-16982-00030

| |
|---|
| Authorized Individual (typed): |
| Title: |
| Signature: |
| Date: |

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.

| |
|---|
| Noncompliance: |
| |
| |
| |
| |

# MALFUNCTION REPORT

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
## OFFICE OF AIR QUALITY
**FAX NUMBER - 317 233-5967**

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 ?_____, 100TONS/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:

_____

_____

**Appendix A: Emission Calculations**
**Natural Gas Combustion Only (MMBtu/hour < 100)**
**Two (2) 2.4 MMBtu/hour Boilers, One (1) 0.7 MMBtu/hour Humidifier, and One (1) 0.5 MMBtu/hour Water Heater**

**Company Name:** Untied Technologies Electronic Controls, Inc.
**Address:** 3650 West 200 North, Huntington, IN 46750
**6th NOC to MSOP:** 069-21950
**Plt ID:** 069-00034
**Reviewer:** ERG/SD
**Date:** November 22, 2005

| Heat Input Capacity (MMBtu/hour) | Potential Throughput (MMSCF/year) |
|---|---|
| 6.0 | 51.5 |

**Pollutant**

| | * PM | * PM10 | $SO_2$ | ** $NO_x$ | VOC | CO |
|---|---|---|---|---|---|---|
| Emission Factor (lb/MMSCF) | 7.60 | 7.60 | 0.60 | 100 | 5.50 | 84.0 |
| Potential To Emit (tons/year) | 0.20 | 0.20 | 0.02 | 2.58 | 0.14 | 2.16 |

* PM and PM10 emission factors are filterable and condensable PM and PM10 combined.
**Emission factor for $NO_x$: Uncontrolled = 100 lb/MMSCF.
Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (July, 1998).

All Emission factors are based on normal firing.

**METHODOLOGY**
Potential throughput (MMSCF/year) = Heat input capacity (MMBtu/hour) * 8760 hours/year * 1 MMSCF/1020 MMBtu
PTE (tons/year) = Potential throughput (MMSCF/year) * Emission factor (lb/MMSCF) * 1 ton/2000 lbs

See next page for HAPs emissions calculations.

**Appendix A: Emission Calculations**
**Natural Gas Combustion Only (MMBtu/hour < 100)**
**Two (2) 2.4 MMBtu/hour Boilers, One (1) 0.7 MMBtu/hour Humidifier, and One (1) 0.5 MMBtu/hour Water Heater**

**Company Name:** Untied Technologies Electronic Controls, Inc.
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**Reviewer:** ERG/SD
**Date:** November 22, 2005

**HAPs - Organics**

| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
|---|---|---|---|---|---|
| Emission Factor (lb/MMSCF) | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential To Emit (tons/year) | 5.41E-05 | 3.09E-05 | 1.93E-03 | 4.64E-02 | 8.76E-05 |

**HAPs - Metals**

| | Lead | Cadmuim | Chromium | Manganese | Nickel |
|---|---|---|---|---|---|
| Emission Factor (lb/MMSCF) | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential To Emit (tons/year) | 1.29E-05 | 2.83E-05 | 3.61E-05 | 9.79E-06 | 5.41E-05 |

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors provided above are from AP-42, Chapter 1.4, Table 1-4.2, 1.4-3 and 1.4-4 (July, 1998).
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

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

**Company Name:** Untied Technologies Electronic Controls, Inc.
**Address:** 3650 West 200 North, Huntington, IN 46750
**6th NOC to MSOP:** 069-21950
**Plt ID:** 069-00034
**Reviewer:** ERG/SD
**Date:** November 22, 2005

VOC emissions from solder wax flux usage:

| Line ID | Unit | Density (lb/gal) | Weight % Volatile ($H_2O$ & 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 | 6.74 | 95.00% | 0.0% | 95.0% | 250 | 0.001146 | 6.40 | 1.83 | 44.0 | 8.03 |
| B | ES02 | 6.74 | 95.00% | 0.0% | 95.0% | 250 | 0.001146 | 6.40 | 1.83 | 44.0 | 8.03 |
| C | ES05 | 6.74 | 95.00% | 0.0% | 95.0% | 450 | 0.000330 | 6.40 | 0.95 | 22.8 | 4.16 |
| D | ES01 | 6.74 | 95.00% | 0.0% | 95.0% | 450 | 0.000330 | 6.40 | 0.95 | 22.8 | 4.16 |
| E | ES04 | 6.74 | 95.00% | 0.0% | 95.0% | 450 | 0.000330 | 6.40 | 0.95 | 22.8 | 4.16 |
| F | ES07 | 0.00 | 0.00% | 0.0% | 0.0% | 325 | 0.000913 | 0.00 | 0.00 | 0.0 | 0.00 |
| G | ES08 | 0.00 | 0.00% | 0.0% | 0.0% | 325 | 0.000913 | 0.00 | 0.00 | 0.0 | 0.00 |
| | **Total** | | | | | | | | | | **28.6** |

* The solder machines are similar to flow coaters and the particulate emissions from these units are negligible.
Note: Changes with respect to 6th Notice Only Change to MSOP are highlighted in yellow.

**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**
**Coating and Printing Operations**

**Company Name:** Untied Technologies Electronic Controls, Inc.
**Address:** 3650 West 200 North, Huntington, IN 46750
**6th NOC to MSOP:** 069-21950
**Plt ID:** 069-00034
**Reviewer:** ERG/SD
**Date:** November 22, 2005

| Material | Density (lb/gal) | Weight % Volatile ($H_2O$ & 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 (lbs/hour) | PTE of PM/PM10 (tons/year) | *Transfer Efficiency (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Conformal Coating | 8.09 | 72.1% | 68% | 4.10% | 450 | 2.2E-04 | 0.33 | 0.03 | 0.79 | 0.14 | 0.09 | 0.39 | 60% |
| Comfomal Coating | 8.09 | 72.1% | 68.0% | 4.12% | 2500 | 4.58E-04 | 0.33 | 0.38 | 9.16 | 1.67 | 1.03 | 4.52 | 60% |
| Ink Jek Printing | 7.17 | 83.7% | 0.0% | 83.70% | 2500 | 2.20E-06 | 6.00 | 0.03 | 0.79 | 0.14 | 0.00 | 0.00 | 100% |
| Kester Solder Paste | 60.00 | 0.1% | 0.0% | 0.14% | 2500 | 4.60E-06 | 0.08 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 100% |
| RTV 3145 Adhesive | 9.34 | 5.0% | 5.0% | 0.00% | 2500 | 1.87E-05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 100% |
| Loctite Adhesive | 8.76 | 91.9% | 0.0% | 91.87% | 2500 | 8.00E-07 | 8.05 | 0.02 | 0.39 | 0.07 | 0.00 | 0.00 | 100% |
| Varnish | 10.01 | 28.5% | 0.0% | 28.50% | 2500 | 6.00E-07 | 2.85 | 0.00 | 0.10 | 0.02 | 0.00 | 0.00 | 100% |
| **Total** | | | | | | | | | | **1.91** | | **4.52** | |

* The transfer efficiencies were provied by the source. Assume all PM emissions are equal to PM.
Note: Changes with respect to 6th Notice Only Change to MSOP are highlighted in yellow.

**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 (lbs/hour) = Maximum Throughput (units/hour) * Maximum Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer Efficiency %)
PTE of PM/PM10 (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**
**Clean-Up Operations**

**Company Name:** Untied Technologies Electronic Controls, Inc.
**Address:** 3650 West 200 North, Huntington, IN 46750
**6th NOC to MSOP:** 069-21950
**Plt ID:** 069-00034
**Reviewer:** ERG/SD
**Date:** November 22, 2005

| Material | Density (lb/gal) | Weight % Volatile ($H_2O$ & 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 | 6.51 | 100.00% | 0.0% | 100.00% | 2500 | 0.0001843 | 6.51 | 3.00 | 72.0 | 13.1 |
| OS-120 | 6.42 | 100.00% | 88.4% | 11.60% | 2500 | 0.0000134 | 0.74 | 0.02 | 0.60 | 0.11 |
| *Toluene | 7.26 | 100.00% | 0.0% | 100.00% | 2500 | 0.0000011 | 7.26 | 0.02 | 0.48 | 0.09 |
| *MEK | 6.76 | 100.00% | 0.0% | 100.00% | 2500 | 0.0000158 | 6.76 | 0.27 | 6.41 | 1.17 |
| Vigon SC-202 Cleaner | 8.26 | 100.00% | 15.5% | 84.52% | 2500 | 0.0000175 | 6.98 | 0.31 | 7.33 | 1.34 |
| 1250 Ink Thinner | 7.41 | 100.00% | 0.0% | 100.00% | 2500 | 0.0000006 | 7.41 | 0.01 | 0.27 | 0.05 |

**Total VOC Emissions =** **15.9**
**Total HAP Emissions =** **1.26**

**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**
**Summary**

**Company Name:** Untied Technologies Electronic Controls, Inc.
**Address:** 3650 West 200 North, Huntington, IN 46750
**6th NOC to MSOP:** 069-21950
**Plt ID:** 069-00034
**Reviewer:** ERG/SD
**Date:** November 22, 2005

**POTENTIAL TO EMIT IN TONS PER YEAR**

| Emission Units | PM | PM10 | $SO_2$ | NOx | VOC | CO | HAPs |
|---|---|---|---|---|---|---|---|
| Combustion Units | 0.20 | 0.20 | 0.02 | 2.58 | 0.14 | 2.16 | 4.86E-02 |
| Wave Solder Machines | | | | | 28.6 | | |
| Coating and Printing Operations | 4.52 | 4.52 | | | 1.91 | | |
| Clean Up Operations | | | | | 15.9 | | 1.26 |
| **Total** | **4.72** | **4.72** | **0.02** | **2.58** | **46.5** | **2.16** | **1.31** |