



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: August 11, 2005
RE: UT Electronic Controls, Inc. / 069-21336-00030
FROM: Paul Dubenetzky
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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, 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.dot 1/10/05



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Ms. Brenda Carter
United Technologies Electronic Controls
3650 West 200 North
Huntington, Indiana 46750

August 11, 2005

Re: 069-21336-00030
First Minor Permit Revision to
MSOP 069-16982-00030

Dear Ms. Carter:

United Technologies Electronic Controls was issued a Minor Source Operating Permit on March 17, 2004 for an electric circuit board manufacturing plant. A letter requesting changes to this permit was received on June 21, 2005. 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.

The revision consists of replacing two (2) wave soldering machines, adding two (2) conformal coaters, replacing five (5) ink jet printers, removing some existing units, and relining the existing emissions units.

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.
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. Please find attached a copy of this revised permit.

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 Yu-Lien Chu, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7871 to speak directly to Ms. Chu. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, or call (800) 451-6027 and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

ERG/YC

cc: File - Huntington County
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
 Commissioner

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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: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 17, 2004 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	Pages Affected: 4,5, 14,15
Issued by: Original signed by Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: August 11, 2005



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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
Minor Source, under PSD Rules
Minor Source, Section 112 of the Clean Air Act
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, 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, identified as ES08, constructed in 2005, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #4.

- (b) Seventeen (17) 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) Two (2) conformal coaters with Line F, identified as NS07 and PS04, constructed in 1999 and 2005, respectively, 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) Two (2) conformal coaters with Line G, identified as NS09 and PS05, constructed in 1999 and 2005, respectively, 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) Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.
 - (9) 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 total 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

- (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

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

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

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

- (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:

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

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

Source Background and Description

Source Name:	United Technologies Electronic Controls
Source Location:	3650 West 200 North, Huntington, Indiana 46234
County:	Huntington
SIC Code:	3822
Operation Permit No.:	069-16982-00030
Operation Permit Issuance Date:	March 17, 2004
Minor Permit Revision No.:	069-21336-00030
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed a revision application from United Technologies Electronic Controls relating to the operation of this electric circuit board manufacturing plant.

History

United Technologies Electronic Controls is an existing electric circuit board manufacturing plant operating under MSOP #069-16982-00030, issued on March 17, 2004. In the application received on June 21, 2005 and the additional information submitted on July 8, 2005, the Permittee requesting the following changes:

- (a) For the wave solders machines:
 - (1) Unit ES01 with Line D will be replaced by a new unit ES06, which has a maximum throughput rate of 450 boards per hour.
 - (2) Unit HS05 with Line G will be replaced by a new unit ES08, which has a maximum throughput rate of 450 boards per hour.

After these changes, the maximum production rate for the entire source will be increased from 2,625 boards per hour to 2,750 boards per hour.

- (b) For the coating operations:
 - (1) The conformal coaters NS09 with Line F has been moved to line G.
 - (2) A new conformal coater PS04 will be added to Line F and the maximum throughput rate for Line F will be increased to 450 boards per hour.
 - (3) The electric cure oven HE10 with Line F has been replaced by oven HE11.
 - (4) A new conformal coater PS05, and a new electric cure oven HE12, will be added to Line G. These units exhaust to stack #58.
- (c) For the printers:

- (1) The ink jet printer BM08 with Line A has been removed.
- (2) A new ink jet printer PM01 with a maximum throughput rate of 250 boards per hour will be added to Line B.
- (3) Two (2) new ink jet printers PM02 and PM03 with a total maximum throughput rate of 450 boards per hour will be added to Line D.
- (4) Two (2) new ink jet printers PM04 and PM05 with a total maximum throughput rate of 450 boards per hour will be added to Line F.
- (5) The existing ink jet printer BM06 will be removed from Line D.
- (6) The existing ink jet printer BM05 will be removed from Line E.
- (7) The existing ink jet printer BM03 will be removed from Line F.

Upon further review, IDEM, OAQ also made the following changes:

- (a) The mailing address for IDEM, OAQ has been changed as follows:

100 North Senate Avenue, ~~P.O. Box 6015~~
Indianapolis, Indiana 46204~~6-6015~~

This change has been made throughout the whole permit.
- (b) Since there are no applicable requirements for the unit listed in Sections D.1 and D.3 in existing permits, these two (2) sections have been removed from the permit.

Existing Approvals

The source was issued a MSOP (#069-16982-00030) on March 17, 2004. The source has since received the following:

- (a) First Notice-only Change #069-18982-00030, issued on June 11, 2004;
- (b) Second Notice-only Change #069-19545-00030, issued on September 29, 2004;
- (c) Third Notice-only Change #069-19777-00030, issued on December 29, 2004;
- (d) Fourth Notice-only Change #069-20197-00030, issued on January 25, 2005; and
- (e) Fifth Notice-only Change #069-20285-00030, issued on February 25, 2005.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Minor Permit Revision be approved. This recommendation is based on the following facts and conditions:

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 June 21, 2005. Additional information was received on July 8, 2005.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 7).

Potential To Emit of the Revision

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

Pollutant	Potential To Emit (tons/year)
PM	2.71
PM10	2.71
SO ₂	--
VOC	10.2
CO	
NO _x	

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAPs	Potential To Emit (tons/year)
MEK	0.07
TOTAL	0.07

Justification for Permit Revision

This revision is being performed as a Minor Permit Revision because this modification has potential to emit VOC greater than 10 tons/yr and less than 25 tons/yr, pursuant to 326 IAC 2-6.1-6(g)(4)(B).

Potential to Emit After Revision

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units after control.

Process/facility	Potential to Emit* (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Solder Machines	-	-	-	51.6	-	-	-
Coating and Printing Operations	7.95	7.95	-	3.26	-	-	Negligible
Cleaning Operation	-	-	-	18.1	-	-	1.64
NG Combustion Units	0.20	0.20	0.02	0.14	2.21	2.63	Negligible
Total Potential to Emit of the Entire Source after this Revision	8.15	8.15	0.02	73.1	2.21	2.63	1.64
Title V Major Source Thresholds	NA	100	100	100	100	100	10 for a single HAP and 25 for total HAPs

* See the emission calculations in pages 3 through 7 of Appendix A.

After making the changes proposed in this revision, the potential to emit of the criteria pollutants from the entire source is still less than the Title V major source thresholds. Therefore, the requirements of 326 IAC 2-7 are not applicable to this source.

County Attainment Status

The source is located Huntington County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment or Unclassifiable
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Huntington County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Huntington County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Significant Deterioration (PSD) and 326 IAC 2-2.
- (c) Huntington County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
Since this type of operation is not in one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD applicability.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this revision.
- (b) This source does not have any rotogravure printing lines. Therefore, the New Source Performance Standards for Publication Rotogravure Printing (40 CFR 60.430-60.453, Subpart QQ) are not included in this revision.
- (c) This source does not apply the surface coating to any business machines. Therefore, the New Source Performance Standards for Surface Coating of Plastic Parts for Business Machines (40 CFR Part 60.720 - 60.726, Subpart TTT) are not included in this revision.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) included in this revision.
- (e) This source does not perform any of the following operations: publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for the Printing and Publishing Industry (40 CFR 63.820 - 63.839, Subpart KK) are not included in this revision.
- (f) This source is not a HAP major source. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for the Miscellaneous Metal Parts and Products

Surface Coating (40 CFR 63, Subpart M) are not included in this revision.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This existing source is not in 1 of 28 source categories defined in 326 IAC 2-2-1(p)(1) and has the potential to emit of any regulated pollutant before control less than two hundred and fifty (250) tons per year. Therefore, this source is an existing PSD minor source. The potential to emit PM and all criteria pollutants of this revision is less than 250 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

326 IAC 2-4.1 (New Sources of Hazardous Air Pollutants)

The potential to emit HAP of this revision is less than 10 tons/yr for a single HAP and less than 25 tons/yr for total HAPs. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

State Rule Applicability - Wave Solder Machines

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The wave solder machines at this source were constructed after January 1, 1980 and each of them has potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable to the solder machines at this source. Any change or modification which may increase the potential VOC usage, including the VOC usage for clean-up solvents, from any of the solder machines to greater than twenty-five (25) tons per year must be approved by the Office of Air Quality before any such change may occur.

State Rule Applicability - Coating and Printing Operations

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

This source is under the Standard Industrial Classification Code of major group #38. However, each of the coating operations at this source does not have actual VOC emissions greater than 15 lbs/day. Therefore, the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) are not applicable to the coating operations at this source. Any change or modification which may increase the VOC usage for any of the coating operations, including the clean-up solvent usage, to greater than 15 pounds per day must be approved by IDEM, OAQ before any such change may occur.

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The coating and printing at this source were constructed after January 1, 1980 and the potential VOC emissions from each of these operations are less than 25 tons per year. Also, the coating and printing operations would be subject to 326 IAC 8-2-9 if the actual VOC emissions were greater. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

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

The maximum coating usage for each conformal coater at this source is less than 5 gallons/day. Therefore, the coating operations at this source are exempt from the requirements of 326 IAC 6-3, pursuant to 326 IAC 6-3-1(a)(15).

Proposed Changes

The following changes have been made to the permit. Language with a line through it has been deleted, and bold language has been added. The Table of Contents has been updated as necessary.

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:

...

- (4) One (1) wave solder machine with Line D, identified as ~~ES04~~**ES06**, constructed in ~~2003~~ **2005**, with a maximum throughput rate of 450 boards per hour, and exhausting through stack #15.

...

- (7) One (1) wave solder machine with Line G, identified as ~~HS05~~**ES08**, constructed in ~~1999~~ **2005**, with a maximum throughput rate of ~~325~~**450** boards per hour, and exhausting through stack #4.

- (b) ~~Fifteen (15)~~ **Seventeen (17)** coating operations, including the following:

...

- (6) Two (2) conformal coaters with Line F, identified as NS07 and ~~NS09~~ **PS04**, both constructed in 1999 **and 2005 respectively**, with a total maximum throughput rate of ~~325~~ **450** boards per hour, using airless spray equipment, equipped with an electric cure oven (HE ~~40~~ **11** Heller), controlled by dry filters, and exhausting through stack #47.

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

- ~~(78)~~ Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.

- ~~(89)~~ One (1) RTV applicator with Line A, identified as PS03, constructed in 2003.

- (c) ~~Eight (8)~~ **Nine (9)** printing operations, constructed after 1995, including the following:

- ~~(1) One (1) ink jet printing operation with Line A, identified as BM08, with a maximum throughput rate of 325 boards per hour.~~

- (21) 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) ~~One (1)~~ **Two (2)** ink jet printing operations with Line D, identified as ~~BM06~~ **PM02 and PM03**, with a **total** maximum throughput rate of 450 boards per hour.

- ~~(4) One (1) ink jet printing operation with Line E, identified as BM05, with a maximum throughput rate of 325 boards per hour.~~

- ~~(54) One (1)~~ **Two (2)** ink jet printing operations with Line F, identified as ~~BM03~~ **PM04 and PM05**, with a **total** maximum throughput rate of ~~325~~**450** boards per hour.

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

- (76) 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.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-6.1]:

- (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 ES01, constructed in 2003, 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, 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, identified as HS05, constructed in 1999, with a maximum throughput rate of 325 boards per hour, and exhausting through stack #4.
- (b) Fifteen (15) 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 #52.
 - (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 #56.
 - (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.

Facility Description [326 IAC 2-6.1]: (Continued)

- (6) — Two (2) conformal coaters with Line F, identified as NS07 and NS09, both constructed in 1999, with a total maximum throughput rate of 325 boards per hour, using airless spray equipment, equipped with an electric cure oven (HE 10 Heller), controlled by dry filters, and exhausting through stack #47.
- (7) — Two (2) adhesive dispense operations with Line A, identified as FU02 and FU33, both constructed after 1989.
- (8) — One (1) RTV applicator with Line A, identified as PS03, constructed in 2003.
- (c) — Eight (8) printing operations, constructed after 1995, including the following:
 - (1) — One (1) ink jet printing operation with Line A, identified as BM08, with a maximum throughput rate of 325 boards per hour.
 - (2) — Two (2) screen printing operations with Line A, identified as DE02 and DE03, with a total maximum throughput rate of 325 boards per hour.
 - (3) — One (1) ink jet printing operation with Line D, identified as BM06, with a maximum throughput rate of 450 boards per hour.
 - (4) — One (1) ink jet printing operation with Line E, identified as BM05, with a maximum throughput rate of 325 boards per hour.
 - (5) — One (1) ink jet printing operation with Line F, identified as BM03, with a maximum throughput rate of 325 boards per hour.
 - (6) — One (1) screen printing operation, identified as DE01, with a maximum throughput rate of 325 boards per hour.
 - (7) — 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.

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

Emission Limitations and Standards [326 IAC 2-6.1]

D.1.1 — VOC Emissions [326 IAC 2-7]

The total potential to emit VOC of the wave soldering machines, coating operations, printing operations, and the associate clean-up operations are less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Permit) are not applicable to this source. Any change or modification which may increase the VOC usage for these operations to greater than 100 tons per year must be approved by IDEM, OAQ before any such change may occur.

D.1.2 — VOC Emissions [326 IAC 8-1-6]

Each of the wave solder machine has potential VOC emissions less than 25 tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable to these solder machines. Any change or modification which may increase the VOC usage for any of the wave solder machine, including the clean-up solvent usage, to greater than 25 tons per year must be approved by IDEM, OAQ before any such change may occur.

~~D.1.3 VOC Emissions [326 IAC 8-2-9]~~

~~Each of the coating operations has actual VOC emissions less than 15 pounds per day. Therefore, the requirements of 326 IAC 8-2-9 (Miscellaneous Metal Coating Operation) are not applicable to these coating operations. Any change or modification which may increase the VOC usage for any of the coating operations, including the clean-up solvent usage, to greater than 15 pounds per day must be approved by IDEM, OAQ before any such change may occur.~~

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

~~D.1.4 VOC Emissions~~

~~Compliance with the VOC usage limitations contained in Conditions D.1.1, D.1.2, and D.1.3 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 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

~~D.1.5 Record Keeping Requirements~~

~~(a) To document compliance with Conditions D.1.1, D.1.2, and D.1.3, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be complete and sufficient to establish compliance with the VOC usage limits in Conditions D.1.1, D.1.2, and D.1.3.~~

~~(1) The VOC content of each solder flux, coating, ink, and solvent used.~~

~~(2) The amount of solder flux and ink used on a monthly basis, and the amount of coating and solvent used on a daily basis.~~

~~(A) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.~~

~~(B) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.~~

~~(3) The daily VOC usage for each coating operation.~~

~~(4) The total monthly VOC usage for each solder machine and for the entire source.~~

~~(5) The weight of VOCs emitted for each year.~~

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

SECTION D.21

EMISSIONS UNIT OPERATION CONDITIONS

~~D.21.1 Particulate Emissions [326 IAC 6-2-4]~~

SECTION D.3

EMISSIONS UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-6.1]:

~~(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.

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

Emission Limitations and Standards

There are no specifically applicable requirements that apply to these emission units.

Conclusion

The operation of this circuit board manufacturing plant shall be subject to the conditions of the attached proposed MSOP Minor Permit Revision No. 069-21336-00030.

Appendix A: Emission Calculations
VOC Emissions
From Replaced Wave Solder Machines

Company Name: United Technologies Electronic Controls, Inc.
Address: 3650 West 200 North, Huntington, IN 46750
MPR: 069-21336-00030
Reviewer: ERG/YC
Date: July 15, 2005

VOC emissions are from solder wax flux usage. The solder machines are similar to flow coaters and the particulate emissions from these units are negligible. The wax flux used does not contain regulated HAPs.

Unit	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
ES06	6.74	95.0%	0.0%	95.0%	450	0.000330	6.40	0.95	22.8	4.16
ES08	6.74	95.0%	0.0%	95.0%	450	0.000330	6.40	0.95	22.8	4.16
Total								1.90	45.6	8.33

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

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

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

PTE of the new and replaced units:

Material	Unit ID	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10 (lb/hr)	PTE of PM/PM10 (ton/yr)	*Transfer Efficiency
Comformal Coating	PS04 & PS05 (new)	8.09	72.12%	68.0%	4.12%	450	0.0015220	0.33	0.23	5.48	1.00	0.62	2.71	60%
Ink Jek Printing	PM01-PM05 (replaced)	7.17	83.70%	0.00%	83.7%	1,150	0.0000027	6.00	0.02	0.45	0.08	0.00	0.00	100%
Total									0.25		1.08	0.62	2.71	

* The transfer efficiencies were provided by the source. Assume PM10 emissions are equal to PM emissions.

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of PM/PM10 (lbs/hr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)

PTE of PM/PM10 (tons/yr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
VOC and HAP Emissions Increased
From the Clean-Up Operations**

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

Material	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput Increase (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
Isopropyl Alcohol	6.51	100%	0.0%	100.0%	125	0.0001843	6.51	0.15	3.6	0.66
OS-120	6.42	100%	88.4%	11.6%	125	0.0000156	0.74	0.00	0.03	0.01
*Toluene	7.26	100%	0.0%	100.0%	125	0.0000011	7.26	0.00	0.02	0.00
*MEK	6.76	100%	0.0%	100.0%	125	0.0000190	6.76	0.02	0.39	0.07
Vigon SC-202 Cleaner	8.26	100%	15.5%	84.5%	125	0.0000175	6.98	0.02	0.37	0.07
1250 Ink Thinner	7.41	100%	0.0%	100.0%	125	0.0000006	7.41	0.00	0.01	0.00
4600 Flush	8.42	100%	0.0%	100.0%	125	0.0000032	8.42	0.00	0.08	0.01
Total PTE Increased								0.19		0.82

* This is also a HAP.

Total HAP Emissions =

**0.07
tons/yr**

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput Increased (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput Increased (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput Increased (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

Appendix A: Emission Calculations
VOC Emissions
From Wave Solder Machines after Modifications

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

VOC emissions from solder wax flux usage:

Unit	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
ES03	6.74	95.0%	0.0%	95.0%	250	0.001146	6.40	1.83	44.0	8.03
ES02	6.74	95.0%	0.0%	95.0%	250	0.001146	6.40	1.83	44.0	8.03
ES05	6.74	95.0%	0.0%	95.0%	450	0.000330	6.40	0.95	22.8	4.16
ES06	6.74	95.0%	0.0%	95.0%	450	0.000330	6.40	0.95	22.8	4.16
ES04	6.74	95.0%	0.0%	95.0%	450	0.000330	6.40	0.95	22.8	4.16
HS03	6.74	95.0%	0.0%	95.0%	450	0.000913	6.40	2.63	63.1	11.5
ES08	6.74	95.0%	0.0%	95.0%	450	0.000913	6.40	2.63	63.1	11.5
Total								11.8		51.6

* 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/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

Appendix A: Emission Calculations
VOC Emissions
From All Coating and Printing Operations after Modification

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

Material	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)	PTE of PM/PM10 (lb/hr)	PTE of PM/PM10 (ton/yr)	*Transfer Efficiency
Comfomal Coating	8.09	72.12%	68.0%	4.12%	2,750	0.0007318	0.33	0.67	16.10	2.94	1.82	7.95	60%
Ink Jek Printing	7.17	83.70%	0.0%	83.70%	2,750	0.0000027	6.00	0.04	1.07	0.20	0.00	0.00	100%
Black UV Ink	8.92	65.25%	0.0%	65.25%	2,750	0.0000004	5.82	0.01	0.15	0.03	0.00	0.00	100%
Kester Solder Paste	60.00	0.14%	0.0%	0.14%	2,750	0.0000046	0.08	0.00	0.03	0.00	0.00	0.00	100%
RTV 3145 Adhesive	9.34	5.00%	5.0%	0.00%	2,750	0.0000187	0.00	0.00	0.00	0.00	0.00	0.00	100%
Loctite Adhesive	8.76	91.87%	0.0%	91.87%	2,750	0.0000008	8.05	0.02	0.42	0.08	0.00	0.00	100%
Varnish	10.01	28.50%	0.0%	28.50%	2,750	0.0000006	2.85	0.00	0.11	0.02	0.00	0.00	100%
Total								0.75		3.26	1.82	7.95	

* The transfer efficiencies were provided by the source. Assume PM10 emissions are equal to PM emissions.

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE of PM/PM10 (lbs/hr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)

PTE of PM/PM10 (tons/yr) = Max. Throughput (unit/hr) * Max. Usage (gal/unit) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) *(1 ton/2000 lbs)

Appendix A: Emission Calculations
VOC and HAP Emissions
From the Clean-Up Operations after Modification

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

Material	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % Organics	Maximum Throughput (unit/hr)	Maximum Usage (gal/unit)	Pounds VOC per gallon of coating	PTE of VOC (lbs/hr)	PTE of VOC (lbs/day)	PTE of VOC (tons/yr)
Isopropyl Alcohol	6.51	100%	0.0%	100.0%	2,750	0.0001843	6.51	3.30	79.2	14.5
OS-120	6.42	100%	88.4%	11.6%	2,750	0.0000156	0.74	0.03	0.77	0.14
*Toluene	7.26	100%	0.0%	100.0%	2,750	0.0000011	7.26	0.02	0.53	0.10
*MEK	6.76	100%	0.0%	100.0%	2,750	0.0000190	6.76	0.35	8.48	1.55
Vigon SC-202 Cleaner	8.26	100%	15.5%	84.5%	2,750	0.0000175	6.98	0.34	8.06	1.47
1250 Ink Thinner	7.41	100%	0.0%	100.0%	2,750	0.0000006	7.41	0.01	0.29	0.05
4600 Flush	8.42	100%	0.0%	100.0%	2,750	0.0000032	8.42	0.07	1.78	0.32
Total								4.13		18.1

* This is also a HAP.

Total HAP Emissions =

1.64
tons/yr

METHODOLOGY

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

PTE of VOC (lbs/hr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit)

PTE of VOC (lbs/day) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (24 hr/day)

PTE of VOC (tons/yr) = Pounds of VOC per Gallon coating (lb/gal) * Max. Throughput (unit/hr) * Max. Usage (gal/unit) * (8760 hr/yr) * (1 ton/2000 lbs)

**Appendix A: Emission Calculations
Natural Gas Combustion
(MMBtu/hr < 100)**

From Two (2) 2.4 MMBtu/hr Boilers, One (1) 0.7 MMBtu/hr Humidifier, and One (1) 0.5 MMBtu/hr Water Heater

Company Name: United Technologies Electronic Controls, Inc.

Address: 3650 West 200 North, Huntington, IN 46750

MPR: 069-21336-00030

Reviewer: ERG/YC

Date: July 15, 2005

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

6.0

52.6

	Pollutant					
Emission Factor in lb/MMCF	PM*	PM10*	SO ₂	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	0.20	0.20	0.02	2.63	0.14	2.21

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission Factors for NO_x: Uncontrolled = 100 lbs/MMCF.

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 (AP-42 Supplement D 3/98)

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton