



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

FINAL PERMIT

PERMITTEE

Jabil Circuit, Inc.
10500 Dr. Martin Luther King Jr. Street North
St. Petersburg, FL 33716

Authorized Representative:

Mr. Richard Bartlett, EH&S Supervisor

Air Permit No. 1030278-014-AF
Permit Expires: 08/13/2018
Site Name *Jabil Circuits (MLK Facility)*
Federally Enforceable State Operation Permit (FESOP)
Project Name: FESOP Renewal

This is the final permit to renew Air Operation Permit No. 1030278-013-AF for a printed circuit board manufacturing facility at the Jabil Circuits, MLK Facility (Standard Industrial Classification No. 3679). The facility is located in Pinellas County at 10500 Dr. Martin Luther King Jr. Street North in St. Petersburg, Florida. The UTM coordinates are Zone 17, 338.34 km East, and 3083.63 km North.

This final permit is organized by the following sections:

- Section 1. General Information
- Section 2. Administrative Requirements and Facility-wide Specific Conditions
- Section 3. Emissions Unit Specific Conditions
- Section 4. Appendices

Due to the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of final permit. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of final permit, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

All petitions filed under these rules shall contain:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of

the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

 08/13/2013

Kelley M. Boatwright

Effective Date

District Air Program Administrator
Southwest District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on the date indicated below to the persons listed below.

Mr. Richard Bartlett, Jabil Circuit, Inc. (richard.bartlett@jabil.com)

Mr. Marvin Scott, Environmental Engineering Consultants, Inc. (msscott@eec-tampabay.com)

Mr. Gary Robbins, Pinellas County Air Quality Division (grobbins@pinellascounty.org)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Rhonda Hughes
(Clerk)

8/13/2013
(Date)

SECTION 1. GENERAL INFORMATION (FINAL)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

This facility produces printed circuit boards. The existing facility consists of the following emissions units (EUs).

Facility ID No. 1030278	
EU ID No.	Emissions Unit Description
003	Printed Circuit Board Manufacturing

NOTE: Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.

Exempt Emission Sources/Activities

A 540 HP emergency generator which uses diesel fuel is exempt per Rule 62-210.300(3)(a)35., F.A.C. (Categorical and Conditional Exemptions - Stationary Reciprocating Internal Combustion Engines). The engine was manufactured in the year 2001 and is subject to 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The owner or operator shall comply with all limitations and requirements of Subpart ZZZZ that apply to the engine. If emissions testing is required pursuant to Subpart ZZZZ, all notifications of upcoming tests and reports shall be submitted to the Department in accordance with the provisions of Subpart ZZZZ.

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAPs).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic non-Title V source for the pollutants volatile organic compounds (VOCs) and hazardous air pollutants (HAPs).

PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Operation Permit No. 1030278-013-AF

**SECTION 2. ADMINISTRATIVE REQUIREMENTS AND FACILITY-WIDE SPECIFIC
CONDITIONS (FINAL)**

ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority - The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District Office's Air Permitting Program. The mailing address and phone number is:

Florida Department of Environmental Protection
Southwest District Office
Air Permitting Program
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-470-5700

All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority - All documents related to compliance activities such as reports, tests, and notifications shall be submitted to Pinellas County Air Quality Division (PCAQD). The mailing address and phone number of the Local Air Program is:

Pinellas County Air Quality Division
509 East Avenue South, Suite 138
Clearwater, Florida 33756
Telephone: 727-464-4422

3. Appendices - The following Appendices are attached as part of this permit:

- a. Appendix A. Citation Formats and Glossary of Common Terms;
- b. Appendix B. General Conditions;
- c. Appendix C. Common Conditions; and
- d. Appendix D. Common Testing Requirements.

4. Applicable Regulations, Forms and Application Procedures - Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions - For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
[Rule 62-4.080, F.A.C.]

6. Modifications - Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an

SECTION 2. ADMINISTRATIVE REQUIREMENTS AND FACILITY-WIDE SPECIFIC CONDITIONS (FINAL)

increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.

[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report - On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]
8. Operation Permit Renewal Application - A completed application for renewal of the operation permit shall be submitted to the Permitting Authority with a copy to PCAQD (Compliance Authority) no later than 60 days prior to the expiration date of this operation permit. To properly apply for an operation permit, the applicant shall submit the following:
 - a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>*);
 - b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.; and
 - c. copies of the most recent two months of records/logs specified in Specific Condition No. A.4.

[Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

FACILITY-WIDE SPECIFIC CONDITIONS

9. General Standards: Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions - The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. The facility shall comply with the following:
 - a. All equipment, pipes, hoses, lids, fittings, etc., shall be operated/maintained in such a manner as to minimize leaks, fugitive emissions and spills of solvent materials.
 - b. All VOC/OS from washings (equipment clean-up) shall be directed into containers that prevent evaporation into the atmosphere.
 - c. Tightly cover or close all VOC containers when they are not in use.
 - d. Prevent excessive air turbulence across exposed VOC surfaces.
 - e. Immediately confine and clean up VOC spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.

[Rules 62-4.070(3) and 62-296.320(1)(a), F.A.C.; Construction Permit 1030278-011-AC]

10. General Standards: Unconfined Particulate Matter Emissions - All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including but not

**SECTION 2. ADMINISTRATIVE REQUIREMENTS AND FACILITY-WIDE SPECIFIC
CONDITIONS (FINAL)**

limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. At a minimum, the following precautions shall be taken by the permittee:

- a. paving and maintenance of roads, parking areas, and yards;
- b. landscaping or planting of vegetation;
- c. use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and
- d. proper operation of the equipment and general maintenance activities (e.g., replacement of equipment exhaust filters).

[Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.; Construction Permit 1030278-011-AC]

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 003 – Printed Circuit Board Manufacturing

This section of the permit addresses the following emissions unit (EU).

EU ID No.	Emissions Unit Description
003	<p><u>Printed Circuit Board Manufacturing</u></p> <p>In general, a circuit board manufacturing line consists of screen printers that apply printed circuits to substrate boards using solder paste; infrared reflow ovens that dry the solder paste; assembly operations where electronic components are placed on substrate board manually or by automated machinery; conveyORIZED wave solder machines that use solvent-based flux and a solder wave (molten bar solder) to solder the electronic components to the printed circuit board; and coating operations where coatings or sealants are applied to the finished board or individual components on the board.</p> <p>This emissions unit consists of up to 10 conveyORIZED wave solder machines. The wave solder machines use a thinner (isopropanol) and a flux (isopropanol-based). Isopropanol is a volatile organic compound (VOC) that is vented, without control, during the process. VOC emissions are vented to a common air collection header which is exhausted to the atmosphere via two upblast roof exhausters (25 feet high). Boards exiting the machines are air-dried and fed directly into water-based washers. Bench-top stations are used for minor hand assembly and soldering, resulting in fugitive VOC emissions. Stencils used for placement of solder paste on bare circuit boards are cleaned in an automatic washing machine with de-ionized water and a VOC-containing solvent. The machines vent to the upblast roof exhausters.</p>

PERFORMANCE RESTRICTIONS

- A.1.** Permitted Capacity - This facility shall operate no more than 10 conveyORIZED wave solder machines. [Rule 62-210.200 (definition of Potential to Emit), F.A.C.]
- A.2.** Restricted Operation - The hours of operation are not limited (8,760 hours per year). [Rules 62-4.070(3) and 62-210.200 (definition of Potential to Emit), F.A.C.]

EMISSIONS STANDARDS

- A.3.** VOC and HAP Emissions Standards - The following volatile organic compound (VOC) and hazardous air pollutant (HAP) emission limits apply:
- a. total emissions of VOCs shall not exceed 15.0 tons in any 12 consecutive month period; and
 - b. total emissions of HAPs shall not exceed 2.0 tons in any 12 consecutive month period.
- [Rule 62-210.200, F.A.C. (“Potential to Emit”); as requested by applicant in the application received ~~8/31/2011~~ 7/24/2013]

RECORDKEEPING AND REPORTING REQUIREMENTS

- A.4.** VOC and HAP Containing Materials Usage Records - To demonstrate compliance with the emission limitations of Specific Condition No. A.3. a log shall be maintained. At a minimum, the log shall identify and quantify all VOC and/or HAP containing materials used in the production of printed-circuit boards. Documentation of solvents consumed, such as during solvent cleanup, may use a mass-

SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS (FINAL)

A. EU No. 003 – Printed Circuit Board Manufacturing

balance method to determine usage (amount used minus amount collected for disposal or recycle). The following information shall be recorded by the 10th day of the following month:

- a. facility name, facility ID No., emission unit ID No., and description (e.g., Jabil Circuit, Inc., 1030278, EU 003, Printed Circuit Board Manufacturing);
- b. monthly usage of each VOC and HAP containing material (gallons/month);
- c. VOC and/or HAP content (lbs/gallon) of each item in A.4.b., above;
- d. total HAP emissions (lbs/month or tons/month) based on A.4. b. and c.;
- e. total VOC emissions (lbs/month or tons/month) based on A.4. b. and c.; and
- f. cumulative total VOC and HAP emissions for the most recent 12 consecutive month period (tons/12 consecutive months) based on A.4. d. and e.

The log shall be maintained electronically by the Environmental Health and Safety (EHS) team. The EHS team will also maintain a cumulative log for all emissions.

Supporting documentation (Material Safety Data Sheets, purchase orders, U.S. EPA "VOC DATA SHEETS", etc.) shall be kept for each thinner, flux, solvent, and other VOC and/or HAP containing materials used in the production of printed circuit boards that includes sufficient information to determine VOC and HAP emissions. The records shall be maintained for three years and made available to the Department and the Pinellas County Air Quality Division upon request.

[Rules 62-4.070(3) and 62-4.160, F.A.C.]