Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. 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. Greg Knopf, Environmental, Health & Safety Engineer

Air Permit No. 1030278-013-AF
Permit Expires: 01/26/2014
Site Name : Jabil Circuits (MLK Facility)
Federally Enforceable State Operating Permit (FESOP)
Project Name: Replacement of Title V Operation Permit with a FESOP

This is the final air operation permit, which authorizes the continued operation of a printed circuit board manufacturing facility. The work is conducted at 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. As noted in the Final Determination provided with this final permit, no changes or only minor changes and clarifications were made to the draft permit.

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

Because of 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.

Upon issuance of this final permit, 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 (Mail Station #35, 3900 Commonwealth Boulevard, 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 30 days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

November 27, 2011

_____ _____

Cindy Zhang-Torres, P.E. Effective Date
Air Permitting Manager
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 _____ to the persons listed below.

Mr. Greg Knopf, Environmental, Health & Safety Engineer
Jabil Circuit, Inc.
Gregory_Knopf@Jabil.com

Robert E. Wallace, III, P.E.
Environmental Engineering Consultants, Inc.
rwallace@eec-tampabay.com

Mr. Gary Robbins, Pinellas County Air Quality Division
grobbins@co.pinellas.fl.us

Jonathan Holtom, FDEP
jonathan.holtom@dep.state.fl.us

Ana M. Oquendo, EPA
oquendo.ana@epamail.epa.gov

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.

_____ _____

(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Existing Facility

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

Facility ID No. 1030278	
ID No.	Emission Unit Description
001	Roosevelt Facility - up to 10 conveyorized wave solder machines
003	MLK Facility - up to 10 conveyorized wave solder machines
004	Gandy Facility - up to 16 conveyorized wave solder machines, circuit board coating processes and a hand-held spray painting station

Project Description and Affected Emission Units

This project establishes the facility as a synthetic, non-Title V source of air pollution. It removes the Roosevelt (EU 001) and Gandy (EU 004) facilities from the permit since circuit board manufacturing activities no longer take place at these locations. Operations at the MLK Facility (EU 003) remain unchanged, but the name of the emission unit has been changed to be more representative. Permitted emissions of volatile organic compounds (VOCs) are reduced from 242.6 to 15.0 tons per any consecutive 12 month period and permitted emissions of hazardous air pollutants (HAPs) are reduced from 5.0 to 2.0 tons per any consecutive 12 month period.

Facility ID No. 1030278	
ID No.	Emission 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 Units/Activities

A 540 HP emergency generator with a maximum design heat input rate of 1.84 MMBtu/hour. It is fired with No. 2 fuel oil. If any engine is or becomes subject to 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines or 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, the affected engine(s) shall comply with all the limitations and requirements of that subpart.
[Rule 62-210.300(3)(a)35., F.A.C.]

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- 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

Replaces Permit No. 1030278-010-AV.

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's Air Resource Management Section. The Southwest District's mailing address and phone number is:

Florida Department of Environmental Protection
Southwest District Office
Air Resource Management Section
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

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 the Pinellas County Air Quality division. The mailing address and phone number of the Local Air Program is:

Pinellas County
Air Quality Division
300 South Garden Avenue
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 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 local program name (Compliance Authority) no later than 60 days prior to the expiration date of the 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 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]

A. EU No. 003 - Printed Circuit Board Manufacturing

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
003	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. 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.

PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity - This facility shall operate no more than 10 conveyorized wave solder machines.
[Rule 62-210.200 ("Potential to Emit"), F.A.C.]

A.2. Restricted Operation - The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200 ("Potential to Emit"), F.A.C.]

EMISSIONS STANDARDS

A.3. Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) Emissions Limitations - The following 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]

RECORDS AND REPORTS

A.4. VOC and HAP Containing Materials Usage Records - To determine 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-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.]