



# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## FINAL PERMIT

Electronically sent – Received Receipt requested  
erstern@rockwellcollins.com

### PERMITTEE

Rockwell Collins, Inc.  
1100 W Hibiscus Blvd., P.O. Box 1060  
Melbourne, FL 32902-1060

Air Permit No. 0090165-008-AF  
Permit Expires: July 30, 2015

Authorized Representative:  
Eric Stern, Senior Director of Melbourne Operations

Rockwell Collins, Inc.  
Electronics Processing Operation  
FESOP Renewal

This is the **FINAL** federally enforceable state operation permit number 0090165-008-AF to operate the above-referenced source issued pursuant to Section(s) 403.087, Florida Statutes. **This facility, classified as a synthetic minor source, is located in Brevard County at 1100 W. Hibiscus Blvd., and includes Building #312, located at 795 NASA Blvd., Melbourne, Florida.** The facility is classified under Major Group SIC 38 (Measuring, Analyzing, and Controlling Instruments). The UTM Coordinates are Zone 17, 535.42 km East, and 3106.71 km North.

This **FINAL** federally enforceable state operation permit (FESOP) is organized by the following sections.

- Section 1. General Information
- Section 2. Administrative Requirements
- 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.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, 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, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department permit file number and the county in which the project is proposed;

**FEDERALLY ENFORCEABLE STATE OPERATION PERMIT**

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- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above, and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department 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 of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida



Caroline D. Shine  
Program Administrator  
Air Resource Management

7/15/10

Date

**FEDERALLY ENFORCEABLE STATE OPERATION PERMIT**

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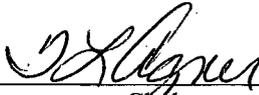
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Federally Enforceable State Operation Permit (air) package 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 7/15/10 to the persons listed below.

Eric Stern, Senior Director of Melbourne Operations, ([erstern@rockwellcollins.com](mailto:erstern@rockwellcollins.com))  
Michael Corsetti, Environmental Safety & Health, ([mccorset@rockwellcollins.com](mailto:mccorset@rockwellcollins.com))  
Douglas W. Bauman, P.E., Environmental Engineering, Inc., ([doug4ucf@earthlink.net](mailto:doug4ucf@earthlink.net))  
Ana M. Oquendo, EPA, ([oquendo.ana@epa.gov](mailto:oquendo.ana@epa.gov))

Clerk Stamp

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

  
\_\_\_\_\_  
Clerk

7/15/10  
Date

## SECTION 1. GENERAL INFORMATION

### FACILITY AND PROJECT DESCRIPTION

#### Existing Facility

The facility is Rockwell Collins, Inc. and consists of an electronics processing operation. Emission Unit (001):

- a) Blue Line Cutting - Plastic electron connectors are cut and sanded creating particulate matter (PM) emissions which are captured and conveyed by a 500 ACFM air flow to a Hoffman TVAC-150 Baghouse with an air to cloth ratio of 5.88 to 1 and a (PM) reduction efficiency to approximately 99 percent. (Bldg. 310)
- b) Parts Cleaning Hood - Cleaning of parts by solvents is hood vented by a Gen Aire Model 160AR blower at 2020 ACFM air flow. (Bldg. 308)
- c) Process Room and Touch Up Booths - The process room consisting of seven operations (parts washing bin, chemical storage, antenna foaming, electric ovens, general hoods, and touch up booths are exhausted by 9500 ACFM blower. (Bldg. 310)
- d) Drag Soldering and Curing Ovens - Emissions are exhausted by a 750 ACFM blower. (Bldg. 311)
- e) Wave Soldering Operation - Emissions are exhausted by a 650 ACFM blower. (Bldg. 311)
- f) Water Washing and Vapor Phase Soldering - Emissions are exhausted by a 700 ACFM Blower. (Bldg. 311)
- g) **Post Coating Operation – Circuit Boards are coated with an acrylic coating (Humiseal) in one of less than 55 satellite hand-brush workstations and/or one of less than 9 high efficiency satellite select-coat type Humiseal spray booths. Almost all of the satellite hand-brush workstations are fitted with a small workstation hood tied into one of several industrial ventilation systems discharging to the atmosphere. Each select-coat type Humiseal spray booth is also tied into one of the two industrial ventilation systems (Facility Wide including Bldg. 312)**

**This facility, classified as a synthetic minor source, is located in Brevard County at 1100 W. Hibiscus Blvd., and includes Building #312, located at 795 NASA Blvd., Melbourne, Florida.**

The existing facility consists of the following emission unit.

Facility ID No. 0090165	
ID No.	Emission Unit Description
001	Electronic Processing Operation (Facility Wide)

#### Proposed Project

Rockwell Collins, Inc. applied for a FESOP permit (air) renewal to operate the facility for a period of 5 years. The description was updated and the bold text represents updated portion of E.U. 001 description under existing facility and equipment name.

### 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 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- The facility is classified as a synthetic non-Title V (minor) facility.
- This permit (0090165-008-AF) is a Federally Enforceable State Operation Permit (FESOP).
- The facility is not subject to a NSPS Regulation.
- The facility is not subject to a NESHAP regulation.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Office. The Central District Office's mailing address is 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767. All documents related to applications for permits to operate an emissions unit shall be submitted to the Central District Office.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address and phone number of the Central District Office is: 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767 (407-894-7555).
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;
  - d. Appendix D. Common Testing Requirements; and
  - e. Appendix E. Permit Application

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.

4. 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.]
5. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
6. Source Obligation:
  - (a) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.
  - (b) At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

### SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS

#### A. Electronics Processing Operation (Facility Wide)

This section of the permit addresses the following emissions unit.

ID No.	Emission Unit Description
001	Electronic Processing Operation (Facility Wide)

#### EQUIPMENT

1. Equipment Name: The facility is Rockwell Collins, Inc. and consists of an electronics processing operation. Emission Unit (001):
  - a) Blue Line Cutting - Plastic electron connectors are cut and sanded creating particulate matter (PM) emissions which are captured and conveyed by a 500 ACFM air flow to a Hoffman TVAC-150 Baghouse with an air to cloth ratio of 5.88 to 1 and a (PM) reduction efficiency to approximately 99 percent. (Bldg. 310)
  - b) Parts Cleaning Hood - Cleaning of parts by solvents is hood vented by a Gen Aire Model 160AR blower at 2020 ACFM air flow. (Bldg. 308)
  - c) Process Room and Touch Up Booths - The process room consisting of seven operations (parts washing bin, chemical storage, antenna foaming, electric ovens, general hoods, and touch up booths are exhausted by 9500 ACFM blower. (Bldg. 310)
  - d) Drag Soldering and Curing Ovens - Emissions are exhausted by a 750 ACFM blower. (Bldg. 311)
  - e) Wave Soldering Operation - Emissions are exhausted by a 650 ACFM blower. (Bldg. 311)
  - f) Water Washing and Vapor Phase Soldering - Emissions are exhausted by a 700 ACFM Blower. (Bldg. 311)
  - g) **Post Coating Operation – Circuit Boards are coated with an acrylic coating (Humiseal) in one of less than 55 satellite hand-brush workstations and/or one of less than 9 high efficiency satellite select-coat type Humiseal spray booths. Almost all of the satellite hand-brush workstations are fitted with a small workstation hood tied into one of several industrial ventilation systems discharging to the atmosphere. Each select-coat type Humiseal spray booth is also tied into one of the two industrial ventilation systems (Facility Wide including Bldg. 312)**

[Application No(s). 0090165-007-AF and 0090165-008-AF]

#### PERFORMANCE RESTRICTIONS

2. Restricted Operation: The hours of operation of are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]
3. No person shall circumvent any pollution control device or allow the emissions of air pollutants without the applicable air pollution control device operating properly.  
[Rule 62-210.650, F.A.C.]

#### PRECAUTIONS AND PROCEDURES TO MINIMIZE EMISSIONS

4. Unconfined particulate matter: All reasonable precautions shall be taken to prevent emissions of unconfined particulate matter. Reasonable precautions shall include, but not be limited to, the following [Rule 62-296.320(4)(c), F.A.C.]:
  - a) Application of water, when necessary, to control emissions.
  - b) Removal of particulate matter from roads and other paved areas under control of the owner or operator to prevent re-entrainment, and from buildings or work areas to prevent particulate.

## SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS

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### A. Electronics Processing Operation (Facility Wide)

5. Volatile Organic Compound: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOCs) or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department [Rule 62-296.320(1)(a), F.A.C.] To comply, procedures to minimize pollutant emissions should include, but not be limited to the following:
- tightly cover or close all VOC containers when they are not in use,
  - tightly cover, where possible, all open troughs, basins, baths, tanks, etc. when they are not in use,
  - maintain all piping, valves, fittings, etc. in good operating condition,
  - prevent excessive air turbulence across exposed VOCs,
  - immediately confine and clean up VOC spills and make sure certain wastes are placed in closed containers for reuse, recycling or proper disposal [Rule 62-296.320(1)(a), F.A.C.]

### EMISSIONS LIMITS AND STANDARDS

6. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.] An objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-210.200, (Objectionable Odor), F.A.C.]
7. Emissions Standards: Visible emissions for the facility are limited to less than 20 percent opacity. See Condition No. 8 of Appendix C, Common Conditions of this permit. [Application No. 0830169-001-AC and Rule 62-296.320(4)(b)1, F.A.C.]
8. Emissions Limits: The maximum facility-wide volatile organic compound (VOC) emission rate shall not exceed 50.0 tons per consecutive twelve months, total HAP emissions are limited to less than 25.0 tons per consecutive twelve months, and each HAP emission is limited to less than 10.0 tons per consecutive twelve months. [Rule 62-210.200, (Potential to Emit), F.A.C.]

### TESTING REQUIREMENTS

9. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and provide a report on the results of said tests to the Department. [Rule 62-297.310(7)10.(b), F.A.C.]

### RECORDS AND REPORTS

10. In order to demonstrate compliance with specific condition number 8, and pursuant to Rule 62-4.070(3), F.A.C., the permittee shall maintain a monthly log, at the facility, for a period of at least five years from the date the data is recorded. The log, at a minimum, shall contain the following:

#### Monthly

- Designation of the month and year of operation for which the records are being tabulated; and
- Consecutive 12-month total of total VOC, total HAP, and each HAP **usage rates**; and

### SECTION 3. EMISSION UNIT SPECIFIC CONDITIONS

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#### A. Electronics Processing Operation (Facility Wide)

- c) Consecutive 12-month total of total VOC, total HAP, and each HAP **disposed and/or reclaimed rates**; and
- d) Consecutive 12-month total of total VOC, total HAP, and each HAP **emissions rates**.

Note: A consecutive 12-months total is equal to the total for the month in question plus the totals for the eleven months previous to the month in question. A consecutive 12-months total treats each month of the year as the end of a 12-months period. A 12-months total is not a year-to-date total. Facilities that have not been operating for 12 months should retain 12-months totals using whatever number of months of data are available until such a time as a consecutive, 12-month total can be maintained each month. **The monthly logs shall be completed by the end of the following month.** [Rule 62-4.070(3), F.A.C.]

- 11. Logs must document the method, calculations, and formulas used in determining the usage rate and the emission rate. This includes, but is not limited to, the product name, density, individual and total HAP contents, and individual and total VOC content. All calculations, including those used to derive emission credits for mass balance must be clearly documented, and may be presented **in the form of a template of sample calculations**, which is filed with the logs required in this specific condition and available for review on site by regulatory inspectors.  
[Rule 62-4.070(3), F.A.C.]
- 12. Supporting documentation (chemical usage tracking logs, MSDS sheets, purchase orders, EPA "As Supplied" data sheets, EPA Method 24, etc.) shall be kept for each chemical and associated products which includes sufficient information to determine usage rates and emissions. These records shall be made available to the Department upon request. Documentation of each chemical reclaimed will use a mass balance method to determine usage/emissions (amount used minus amount collected for disposal or recycle). The log and documents shall be kept at the facility for at least five years and made available to the Department. The monthly logs shall be completed by the end of the following month.  
[Rule 62-4.070(3), F.A.C.]
- 13. Annual Operating Report: An Annual Operating Report is required to be completed and submitted for this facility as specified in Appendix C (Common Conditions) of this permit. This facility is classified as a synthetic minor facility. [Rule 62-210.370(3), F.A.C.]