FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CENTRAL DISTRICT
3319 MAGUIRE BOULEVARD, SUITE 232
ORLANDO, FLORIDA 32803-3767

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

CLIFFORD D. WILSON III
INTERIM SECRETARY

XX, 2014

Electronically Sent- Received Receipt Requested
Jeanne.boland@rockwellcollins.com

FINAL PERMIT

PERMITTEE

Rockwell Collins, Inc.
110 W. Hibiscus Blvd.
Melbourne, FL 32902

Authorized Representative:
Jeanne M. Boland, Senior Director of Melbourne Operations

Air Permit No. 0090165-009-AC
Permit Effective Date: XX/XX/2014
Permit Expires: 08/13/2016
Site Name: Rockwell Collins, Inc.
Synthetic Minor Source Air Construction Permit
Project: Construction of Spray Systems

This is an Air Construction Permit for the existing electronics processing facility, Rockwell Collins, Inc., (Major Group Standard Industrial Classification No. 38). The facility is located in Brevard County at 1100 W. Hibiscus Blvd. in Melbourne, Florida and includes Building #312, located at 795 NASA Blvd., Melbourne, Florida. The UTM coordinates are Zone 17, 535.42 km East, and 3106.71 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Facility-wide and 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.

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

DRAFT

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 Orange County, Florida

_____DRAFT_____

_____

F. Thomas Lubozynski, P.E. Date
Waste & Air Resource Programs Administrator

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.

Jeanne M. Boland – Rockwell Collins, Inc., Jeanne.boland@rockwellcollins.com
Kory Kundy – Rockwell Collins, Inc., kbkunde@rockwellcollins.com
Douglas Bauman, P.E. – General Civil & Environmental Engineering LLC, doug4ucf@earthlink.net
Reggie Phillips – FDEP Central District, reggie.phillips@dep.state.fl.us
Sirena Davila – FDEP Central District, sirena.davila@dep.state.fl.us

Clerk Stamp

FILED, on this date, pursuant to Section 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

_____ _____
(Clerk) (Date)

FACILITY AND PROJECT DESCRIPTION

Rockwell Collins, Inc.

Rockwell Collins is an electronics processing facility and consists of the following emissions unit.

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

The **existing facility** consists of the following electronics processing operations:

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 l 60AR 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)

Project Description

This project is to construct 10 Manual Spray Systems for the application of Humiseal 1B31 (mixed with 521 Thinner at a 1:1 ratio by volume) to printed circuit boards. The Manual Spray System includes a FCS300-R-H Manual Spray System, a workstation and local capture-hood, and a FX800 Fume Filtration System. The fume filtration system discharges filtered exhaust to the inside of the building. This addition will become item h) in the list above. Construction also includes 5 additional satellite hand-brush workstations to item g) above. All aspects of this project are under the existing Emission Unit EU-001. There is no increase in the maximum facility-wide Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) emissions limits.

FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of air pollution for volatile organic compounds (VOCs) and 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 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 and is permitted with 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.

PERMIT HISTORY/AFFECTED PERMITS

This is an air construction permit for the above project for the existing facility and will be incorporated into the current federally enforceable state operation permit, 0090165-008-AF (or as renewed).

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District, Waste & Air Resource Programs. The Central District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Central District Office
   3319 Maguire Blvd., Ste. 232
   Orlando, FL 32803-3767
   Telephone: 407-897-4100

   All documents related to applications for permits shall be submitted to the above address or electronically to the following address: DEP_CD@dep.state.fl.us . In each document, clearly identify the Air Permit Project No. 0090165-009-AC.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Compliance Assurance Program. (Use the above mailing or e-mail address.) In each document, clearly identify the Air Permit Project No. 0090165-009-AC and specific emission unit.

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; and
   c. Appendix C. Common Conditions

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: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports (AORs) shall be submitted electronically to the Compliance Authority by April 1st of each year. Go to the following website for the latest information about electronic submittal of AORs:

   http://www.dep.state.fl.us/air/emission/eaor/default.htm

   [Rule 62-210.370(3), F.A.C.]

8. Application for Non-title V Air Operation Permit: This permit authorizes construction or modification of the permitted emissions unit EU-001 and initial operation to determine compliance with Department rules. A Non-Title V air operation permit is required for continued operation of the modifications to EU-001 described in this project. The permittee shall apply for a modification to the current Non-Title V air operation permit at least 90 days prior to expiration of this construction permit, but no later than 180 days after commencing operation of EU-001 as modified. Commencing operation means setting into operation of any emissions unit for any purpose. The application should include the activities, operations, and installed equipment authorized by this air construction permit, as well as existing activities, operations, and existing equipment. To properly apply for a modification of the current Non-Title V air operation permit, the applicant shall submit the following:

   a. The appropriate permit application form – Non Title V Source Form (DEP Form No. 62-210.900(3)), which can be found at: http://www.dep.state.fl.us/air/rules/forms/application/dep62_210_900(3).docx . The applicant may apply electronically using the EPSAP (Electronic Permit Submittal and Processing) system and use EPSAP Non-Title V Source Form, which can be found at: http://www.floridadep.org/air/emission/epsap/default.htm ;

   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.6., including the additional records described in Specific Condition A.7.

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

9. Unconfined Emissions of Particulate Matter: No person shall cause, let, permit, suffer, or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing, handling; without taking reasonable precautions to prevent such emissions. Pursuant to Rule 62-296.320(4) (c)1., 3 and 4., F.A.C., reasonable precautions to prevent unconfined emissions of particulate matter shall include, but not limited to, the following:

   a. Application of water, when necessary, to control particulate matter emissions.
   b. Removal of particulate matter from roads and other paved areas under control of the owner or operator to prevent re-entrapment, and from buildings or work areas to prevent particulate matter emissions.

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU No. 001 – Electronic Processing Operation

This section of the permit addresses the following emission unit.

ID No.	Emission Unit Description
001	Electronic Processing Operation

The existing facility **as modified by this construction project** consists of the following electronics processing operations:

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 l 60AR 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 **60** 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).

h) Manual Spray Systems - 10 Manual Spray Systems are used for the application of Humiseal 1B31 (mixed with 521 Thinner at a 1:1 ratio by volume) to printed circuit boards. The Manual Spray System includes a FCS300-R-H Manual Spray System, a workstation and local capture-hood, and a FX800 Fume Filtration System. The fume filtration system discharges filtered exhaust to the inside of the building.

PERFORMANCE RESTRICTIONS

A.1. Restricted Operation: The hours of operation are not limited (8,760 hours per year). [Rule 62-210.200(PTE), F.A.C.]

A.2. VOC Emissions: Pursuant to Rule 62-296.320(1)(a), F.A.C., the following procedures shall be used to minimize emissions:

a. Maintain tightly fitting cover, lids, etc. on all containers of VOCs when they are not being handled, used, etc.;

b. All equipment, fittings, valve lines, pipes, drums, tanks, etc. shall be properly operated and maintained;

c. Prevent excessive air turbulence across exposed VOCs; and
d. All VOC spills shall be attended to immediately and waste properly disposed, recycled, etc.

[Rule 62-296.320(1), F.A.C.]

A.3. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. 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.
[Rules 62-210.200(214) and 62-296.320(2), F.A.C.]

EMISSIONS LIMITS AND STANDARDS

A.4. VOC and HAPs Emission Limitations: The maximum facility-wide Volatile Organic Compounds (VOCs) and HAPs emissions are limited as follows:

Pollutant	Emission Limits (tons per any consecutive 12 month period
Total VOCs	50.0
Total HAPs	Less than 25.0
Individual HAP	Less than 10.0

[62-210.200(247), Potential to Emit, F.A.C.]

{Permitting Note: This project does not change the maximum facility-wide VOCs and HAPs emissions limits.

A.5. Visible Emissions Limitation: Visible emissions for the facility are limited to less than 20 percent opacity.
[Rule 62-296.320(4)(b)1., F.A.C.]

RECORDS AND REPORTS

A.6. Monthly Log: In order to demonstrate compliance with Specific Condition No. A.4., the permittee shall maintain a log at the facility for a period of at least 5 years from the date the data is recorded. The log shall be made available to the Department upon request. The log shall contain the following:

a. Facility Name, Facility ID No. (i.e., 0090165);
b. Month and year of record;
c. Most recent monthly total of VOC emissions (tons);
d. Most recent monthly total of total HAP emissions and individual HAP emissions (tons);
e. Most recent consecutive 12-month total of VOC emissions (tons); and
f. Most recent consecutive 12-month total of total HAP emissions and individual HAP emissions (tons).

Monthly logs shall be completed by the end of the following month.

Note: A consecutive 12-month 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-month total treats each month of the year as the end of a 12-month period. A 12-month total is not a year-to-date total.
[Rule 62-4.070(3), F.A.C.]

A.7. Additional Recordkeeping Requirements: Records specified in Specific Condition No. A.6. (previous condition) must document the method, calculations, and formulas used in determining the usage rate and the emission rate. All calculations, including those to used to derive emissions, must be clearly documents, and may be presented in the form of a template of sample calculations and available for review on site by the Department.
[Rule 62-4.070(3), F.A.C.]

A.8. Supporting Documentation: Supporting documentation (chemical usage tracking logs, "As Supplied" sheets, Safety Data Sheets, EPA data sheets, purchase orders, waste shipment/disposal records, etc.) shall be kept for each chemical and associated products which includes sufficient information to determine usage rates and emissions for a minimum of five (5) years and made available to the Department upon request.
[Rule 62-4.070(3), F.A.C.]

A.9. Record Retention: The records required in Specific Condition No. A.6. shall be recorded in a permanent form suitable for inspection and made available to the Department upon request. The records shall be maintained onsite for a minimum of five (5) years.
[Rule 62-4.070(3), F.A.C.]