FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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FINAL PERMIT

PERMITTEE

Lockheed Martin Corporation
3655 Tampa Road
Oldsmar, FL 34677

Authorized Representative:
Mr. Curt Engel, General Manager

Air Permit No. 1030174-014-AF
Permit Expires: 12/12/2019
Lockheed Martin MST Clearwater Operations
Federally Enforceable State Operation Permit (FESOP)
Project: Permit Renewal

This is the final permit to renew Air Operation Permit No. 1030174-014-AF for a circuit board manufacturing operation at the Lockheed Martin MST Clearwater Operations (Standard Industrial Classification No. 3571). The facility is located in Pinellas County at 3655 Tampa Road in Oldsmar, Florida. The UTM coordinates are Zone 17, 334.21 km East, and 3103.66 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements

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 hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this final permit. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. A petition for administrative hearing must contain the information set forth below and must be filed (received) with the Agency Clerk in the Office of General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, Agency.Clerk@dep.state.fl.us, before the deadline. 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 (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and any facsimile number of the petitioner; the name, address, any email address, telephone number, and any facsimile 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 each petitioner received notice of the agency action or proposed 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 the 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 Permitting Authority'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, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this final permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority 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

_____ _____

Kelley M. Boatwright Effective Date
Permitting & Waste Cleanup 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

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Curt Engel Lockheed Martin Corporation (curt.engel@lmco.com)

Roy Kenton, Lockheed Martin Corporation (roy.kenton@lmco.com)

Sherrill Culliver, Pinellas County AQD (sculliver@co.pinellas.fl.us)

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 is engaged in the final assembly (population) of specialty circuit boards and various specialty components for the defense industry. The existing facility consists of the following emissions unit (EU).

Facility ID No. 1030174

EU ID No.	Emissions Unit Description
001	Circuit Board Manufacturing Facility

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 268.2 HP emergency generator engine which burns low sulfur diesel fuel. The engine was manufactured in 2010 and is subject to 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. The permittee shall comply with all limitations and requirements of Subpart IIII that apply to the engine.

  Rule 62-210.300(3)(a)35., F.A.C. (Categorical and Conditional Exemptions - Stationary Reciprocating Internal Combustion Engines)

- Various electric ovens used for drying, curing and environmental testing. There are no emissions associated with these ovens. (Previously listed in Appendix F.)

  Rule 62-210.300(3)(b), F.A.C. (Generic and Temporary Exemptions)

- Various fume hoods ducted to exhaust stacks.

  Rule 62-210.300(3)(b), F.A.C. (Generic and Temporary Exemptions)

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 (VOC) and hazardous air pollutants (HAPs)

PERMIT HISTORY/AFFECTED PERMITS

This permit replaces Operation Permit No. 1030174-013-AF.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (FINAL)

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

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

SWD_Air_Permitting@dep.state.fl.us

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

All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the above address.

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. Circuit Board Assembly Process Equipment List.

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 the Pinellas County Air Quality Division (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/) submitted to*;

b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.; and

c. copies of the most recent month of records/logs specified in Specific Condition No. A.8.

[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.]

B. EU No. 001 – Circuit Board Manufacturing Facility

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

EU ID No.	Emissions Unit Description
001	Circuit Board Manufacturing Facility – The main function of this facility is the final assembly of printed circuit boards and wire harness assemblies that are integrated into a variety of specialty electronic products for the aerospace and defense industry. Printed circuit boards are populated with components (on automatic part placement machines and/or manually by human assemblers). The populated printed circuit boards are placed in the fixtures. As each fixture goes into the wave flow soldering machine the wave generator sends a wave of solder down the length of the heated tank. The top of this wave just touches the bottom of the printed circuit board, soldering all the connections. After the fixtures leave the wave flow soldering machine they are allowed to cool. The soldered printed circuit boards are then washed to remove any flux residue left by the wave soldering machine, then sent to be tested to make sure they function as intended. The majority of the circuit boards are degreased by a process consisting of immersion, decantation, deionized water washes and finally an electric drying step. There are three hoods associated with this process which are ducted into one exhaust stack. The Humiseal coating process consists of two automated spray coating machines (AP-09 and AP-29) and one manual spray booth (AP-12). A thinner is typically used to clean cured epoxy compounds. The cleaning is conducted under an exhausted hood. All the units are ducted to an exhaust stack which vents to the atmosphere. A room temperature vulcanization (RTV) coating process consists of one automated spray operation (AP-38) and vented ovens and hoods. Emissions from this activity exhaust through a stack which vents to the atmosphere. VOC and HAP emissions are generated by the use of adhesives, coating and cleaners used at the facility as part of the assembly manufacturing operations. Emissions are vented to the atmosphere via six vent stacks.

PERFORMANCE RESTRICTIONS

A.1. Restricted Operation - The hours of operation are not limited (8760 hours per year).
[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit No. 1030174-006-AC]

A.2. Maximum Production Rate - The maximum production rate is 14,400 circuit boards per month (30 days).
[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit No. 1030174-006-AC]

EMISSIONS STANDARDS

A.3. Emissions Limitations - Total volatile organic compounds (VOC), total hazardous air pollutants (HAPs) and individual HAP emissions from this facility shall not exceed the following:

Pollutant	Tons per any consecutive 12 month period

VOC	19.42
Individual HAP	7.0
Total HAPs	19.42

*Permitting Note**:** All HAPs at this facility are VOC.*

[Rule 62-210.200 ("Potential to Emit"), F.A.C.; Construction Permit 1030174-006-AC]

A.4. Fugitive Emissions Opacity Standard - In order to provide reasonable assurance that the precautions and practices specified in Appendix C.9., are adequate, emissions of unconfined particulate matter from all sources of unconfined particulate matter should not exceed 5% opacity. If the 5% opacity (indicator value) is exceeded, it will not be a violation in and of itself, but an indication that additional control precautions and/or practices beyond those outlined in Appendix C.9., may be necessary.
[Rule 62-4.070(3), F.A.C.]

A.5. 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" means 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.

Permitting Note: If the Department or PCAQD receives a valid odor complaint, the Department and/or PCAQD reserves the right to require that odor control measures/work practices be implemented.

[Rule 62-296.320(2) F.A.C., and Pinellas County Code, Section 58-178]

A.6. VOC/HAPs/Organic Solvents (OS) - The permittee shall not store, pump, handle, process, load, unload, or use in any process or installation, VOCs, HAPs, or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. The following procedures shall be utilized to minimize pollutant emissions:

a. maintain covers, lids, etc., on all containers of OS/VOC/HAPs when they are not being handled, tapped, etc.;

b. prevent excessive air turbulence across exposed OS/VOC/HAPs;

c. where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, bath, etc. of OS/VOC/HAPs so that it can be covered when not in use;

d. all fittings, valve lines, etc. shall be properly maintained;

e. all OS/VOC/HAP spills shall be attended to immediately and the waste properly disposed of, recycled, etc.; and

f. ensure that no device reduces the vertical momentum of the stack gas or reduces the vertical dispersion of the stack gas from Stack Nos. 3, 4, 5 and 6. Stack Nos. 1 and 2 shall have a louver rain cap.

[Rules 62-4.070(3) and 62-296.320(1), F.A.C.]

NOTIFICATION REQUIREMENTS

A.7. Equipment List Notification Requirements - Any changes in the circuit board assembly process equipment (see Appendix E.) must be submitted to the Department and the PCAQD annually (by December 31st). A statement must accompany the report certifying that the reported changes do not result in an increase in the actual emissions of any air pollutant subject to air regulations.
[Rules 62-4.070(3), F.A.C.]

RECORDKEEPING AND REPORTING REQUIREMENTS

A.8. Operation Records - In order to demonstrate compliance with the limitations of Specific Condition Nos. A.2. and A.3., the permittee shall maintain a monthly log. The log shall include, but not be limited to the following information:

a. facility name, facility ID, and emission unit number;

b. month/year;

c. monthly usage of each thinner, flux, solvent, and other VOC and/or HAP containing materials (gallons);

d. density (lbs./gal.) and VOC and HAP content (wt.%) of each item in Specific Condition No. A.8.c.;

e. monthly total HAPs and individual HAP emissions (lbs. or tons);

f. monthly total VOC emissions (lbs. or tons);

g. total VOC, total of all HAPs, and total of each individual HAP emissions (tons) for the most recent consecutive 12-month period; and

h. the monthly number of circuit boards produced.

Supporting documentation (MSDS sheets, "As Supplied" sheets, "As Applied" sheets, purchase orders, inventory records, production records, etc.) for the records required by this condition, which shall include sufficient information to determine VOC and HAP emissions, shall also be kept. At the permittee's option, "quantity purchased" may be reported to satisfy the requirement of "quantity used", provided no materials are used which are not purchased. The log shall be completed by the 10th operating day of the next month. It shall be maintained at the facility for the most recent three (3) year period and be made available to the Department and the PCAQD upon request.

[Rule 62-4.070(3), F.A.C. and Pinellas County Code, Section 58-90]