

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.

**Rick Scott**

Governor

John H. Armstrong, MD, FACS

State Surgeon General & Secretary

Vision: To be the Healthiest State in the Nation

January 14, 2014

ELECTRONIC CORRESPONDENCE

Joseph.Gentile@rocketdyne.com**NOTICE OF INITIAL AIR POLLUTION OPERATION PERMIT**

Aerojet Rocketdyne, Inc.
PO Box 109680
West Palm Beach, FL 33410-9680

| | |
|-----------------------|------------------|
| ARMS No. | 0990703 |
| Air Permit No. | 0990703-002-AO |
| Issued: | January 14, 2014 |
| Expires: | January 13, 2019 |

Authorized Representative

Joseph Gentile
Site Operations Manager

Project: Initial Air Operation Permit**Dear Mr. Gentile:**

Enclosed is the [Air Permit No. 0990703-002-AO](#) for the operation of a source of air pollution located in Palm Beach County. This permit is issued pursuant to Chapter 403.087 of the Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code.

The Florida Department of Environmental Protection (DEP) has permitting jurisdiction for this project pursuant to Section 403.087 of the Florida Statutes (F.S.). However, in accordance with Section 403.182, F.S., the DEP recognizes the Palm Beach County Health Department (Health Department) as the approved local air pollution control program in Palm Beach County. As such, the DEP and the Health Department have entered into a Specific Operating Agreement that authorizes the Health Department to issue or deny permits for this type of air pollution source located in Palm Beach County. Accordingly, the Health Department issues this permit under the provisions of Chapter 403, F.S. and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.).

A person whose substantial interests are affected by the Department's permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Palm Beach County Health Department Legal Office, located at 800 Clematis Street in West Palm Beach, Florida, 33401 (Telephone: (561) 671-4000, Fax (561) 837-5195). Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this final permit. A petitioner must 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, F.A.C.

A petition that disputes the material facts on which the permitting authority's action is based must contain the following information:

Florida Department of Health

Palm Beach County, Division of Environmental Public Health
P.O. Box 29, 800 Clematis Street, West Palm Beach, FL 33402
PHONE: 561-837-5900 • FAX: 561-837-5294

www.FloridasHealth.com

TWITTER:HealthyFLA

FACEBOOK:FLDepartmentofHealth

YOUTUBE: fhdoh

- (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 how and when each petitioner received notice of the agency action or proposed action;
- (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, as well as the rules and statutes which entitle the petitioner to relief;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; 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 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 Department'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 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 for this action.

Any party to this Order (Permit) has the right to seek judicial review pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure with the Health Department at the address listed below 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 this Order (Permit) is filed with the Clerk of the Health Department.

Executed in West Palm Beach, Florida
PALM BEACH COUNTY HEALTH DEPARTMENT



James E. Stormer, Q.E.P., Environmental Administrator
Air & Waste Section
Division of Environmental Public Health

If you have any questions, contact:
Laxmana Tallam, P.E.
Permitting Supervisor
Air & Waste Section
Department of Health - Palm Beach County
P.O. Box 29 (800 Clematis St.)
West Palm Beach, Florida, 33402-0029

CERTIFICATE OF SERVICE

The undersigned duly designated agency clerk hereby certifies that the Notice of Permit and the FINAL Air Operation Permit were sent by electronic mail (with received receipt) before the close of business on 1/14/14 to the permittee.

Joseph Gentile, Aerojet Rocketdyne, Inc.
Brian A. Storey, P.E., Golder Associates
Suzanne Harper, Aerojet Rocketdyne, Inc.
Patricia Tampas, FDEP/SED

Joseph.Gentile@rocketdyne.com
bstorey@golder.com
suzanne.harper@rocketdyne.com
Patricia.Tampas@dep.state.fl.us

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

Paul Halamaras
(Clerk)

1/14/14
(Date)

Mission:

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Rick Scott
Governor

John H. Armstrong, MD, FACS
State Surgeon General & Secretary

Vision: To be the Healthiest State in the Nation

JANUARY 14, 2014

ELECTRONIC CORRESPONDENCE

Joseph.Gentile@rocketdyne.com

INITIAL AIR POLLUTION OPERATION PERMIT

ISSUED TO:

Permittee:

Aerojet Rocketdyne, Inc.
PO Box 109680
West Palm Beach, FL 33410-9680

Authorized Representative:

Joseph Gentile, Site Operations Manager

| | |
|--|----------------|
| ARMS No.: | 0990703 |
| Revised Permit No.: | 0990703-002-AO |
| Issued: | 01/14/2014 |
| Expires: | 01/13/2019 |
| Renewal application due by 11/12/2018 | |

LOCATED AT:

Project Location: Located at 17900 Beeline Highway (SR-710) in Jupiter, Florida

UTM Coordinates: Zone 17; 569.452 km E; 2976.474 km N

Latitude: 26° 54' 30" North / **Longitude:** 80° 18' 2" West

STATEMENT OF BASIS:

The Department of Health Palm Beach County (Health Department) issues this permit under the provisions of Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4 through 62-297 the Florida Administrative Code (F.A.C.). The Florida Department of Environmental Protection (DEP) has permitting jurisdiction under Chapter 403.087, F.S. However, in accordance with Section 403.182, F.S., the DEP recognizes the Health Department as the approved local air pollution control program in Palm Beach County. As such, the DEP and the Health Department have entered into a Specific Operating Agreement that authorizes the Health Department to issue or deny permits for this type of air pollution source located in Palm Beach County. The above named permittee is authorized to operate the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Health Department.

ISSUED BY:

Executed in West Palm Beach, Florida

FLORIDA DEPARTMENT OF HEALTH PALM BEACH COUNTY

James E. Stormer, Q.E.P., Environmental Administrator
Air & Waste Section
Division of Environmental Public Health

Air Permit Engineer: Laxmana Tallam, P.E.

Florida Department of Health

Palm Beach County, Division of Environmental Public Health
P.O. Box 29, 800 Clematis Street, West Palm Beach, FL 33402
PHONE: 561-837-5900 • FAX: 561-837-5294

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TWITTER: HealthyFLA
FACEBOOK: FLDepartmentofHealth
YOUTUBE: fldoh

SECTION I. SUMMARY INFORMATION

FACILITY AND PROJECT DESCRIPTION

Proposed Project

The facility consists of eight emissions units. These emissions units were originally permitted under the air operation permit for United Technologies Corp. (ARMS ID no. 0990021). Aerojet requested the transfer of ownership of these emissions units, since United Technologies Corp. sold these emissions units to Aerojet Rocketdyne, Inc. Based on the emissions and the fuel usage, some of the emissions units are classified as ‘exempt.’

The facility is classified as a minor source under the Federal and State preconstruction review regulations (40 CFR 52.21, Chapters 62-210.300, 62-212.300, and 62-212.400, F.A.C.) based on potential emissions of carbon monoxide. The facility has requested the limit on fuel consumption in emissions units (EU 008 & EU 006] to limit the emissions of carbon monoxide to be below the Title V threshold.

The potential emission of carbon monoxide (CO) for the facility is 96.76 tons per year. The facility is classified as a synthetic minor source under the Title V operating permit program (40 CFR Part 70 and Chapter 62-210.200, F.A.C.). The facility is classified as a natural minor source of the Hazardous Air Pollutants (HAPs) with maximum individual HAP emissions less than 10 tons per year and total HAPs emissions of less than 25 tons per year.

SUMMARY OF EMISSIONS UNITS ID NOs AND BRIEF DESCRIPTIONS

| EU ID No. | Reg. Status | Emission Unit Description |
|------------------|--------------------|---|
| 001 | Exempt | Three Diesel Storage Tanks <ul style="list-style-type: none"> • Tank DL-13-MHT, 2500 gallon capacity • Tank DL-GEN01, 1000 gallon capacity • Tank DL-Baldor01, 50 gallon capacity |
| 002 | Exempt | Closed –loop flush cleaning (BF-1RL 10) using Vertrel MCA |
| 003 | Exempt | Boiler (BO-14-E8), fired by propane subject – 6.7 MMBTU/Hr Heat Input |
| 004 | Exempt | Acid gas scrubbing system (AS-2-MPL) for plating operations |
| 005 | Exempt | Heat treatment furnaces (FU-3-MHT and FU-4-MHT) fired by natural gas |
| 006 | Conditional Exempt | Diesel engines emergency generators <ul style="list-style-type: none"> • Heat treat generator, Engine No. CO39024 • E-Area 500 kVA generator, Engine No. 574765 • E-Area 48 kVA generator, Engine No. 816154 |
| 007 | Regulated | Boiler (BO-12-E6) fired by natural gas - 42 MMBTU/hr Heat Input |
| 008 | Regulated | E-8 Rocket Engine Test Stand - Methane Fuel Operations |

SECTION I. SUMMARY INFORMATION

PERMIT HISTORY

| | |
|--------------------|---|
| December 31 , 2014 | Health Department received initial application for a federally enforceable state operation permit (FESOP) |
| January 10, 2014 | Health Department received by email the first 4 pages of application for initial non-Title operating permit |

PERMIT CONTENT

Section I: General Information
Section II: Administrative Requirements
Section III: Emissions Unit Specific Conditions
Section IV: Appendices

Section IV: Appendices
Appendix A: Citation Formats and Glossary of Common Terms
Appendix B: General Conditions
Appendix C: General Testing Requirements
Appendix D: List of exempted emissions units

REGULATORY CLASSIFICATION

| | |
|------------|---|
| Title III: | The facility is not a major source of hazardous air pollutants (HAPs) |
| Title IV: | The facility will not operate units subject to the acid rain provisions of the Clean Air Act. |
| Title V: | The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C. |
| PSD: | The facility is not a PSD major source in accordance with Rule 62-212.400 F.A.C. |

SECTION 2. ADMINISTRATIVE REQUIREMENTS

ADMINISTRATIVE REQUIREMENTS

1.0 ADMINISTRATIVE REQUIREMENTS

- 1.1 Permitting Authority: The permitting authority for this project is Florida Department of Health Palm Beach County (Health Department). The Health Department's mailing address is 800 Clematis Street, West Palm Beach, Florida, 33402, and telephone number (561) 837-5900. **[Specific Operating Agreement]**
- 1.2 Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Health Department. The mailing address and phone number of the Health Department is 800 Clematis Street, West Palm Beach, Florida, 33402, and telephone number (561) 837-5900. **[Specific Operating Agreement]**
- 1.3 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. General Testing Requirements
 - d. Appendix D. List of exempted emissions units
- 1.4 Permit Renewal: The permittee shall apply for a renewal permit at least 60 days prior to the expiration of this operation permit. The application shall include: the Application Form **[DEP Form No. 62-210.900(4)]**; the correct application processing fee; all required test reports; and a summary of any changes or substitutions to the original equipment, processes, fuels, controls, etc. When the renewal application is timely and sufficient, the existing permit shall remain in effect until final action is taken by the Health Department. **[Rules 62-4.090 and 62-210.900, F.A.C.]**
- 1.5 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.]**
- 1.6 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.]**
- 1.7 Source Obligation:
- (a) Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between constructions of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Health Department in the permit.
 - (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 2. ADMINISTRATIVE REQUIREMENTS

2.0 EMISSION LIMITING STANDARDS

2.1 General Particulate Emission Limiting Standards: Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, the permittee shall not:

- (a) Cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as No. 1 on the Ringelmann Chart (20 percent opacity). **[Rule 62-296.320(4)(b)1, F.A.C.]**
- (b) If the presence of uncombined water is the only reason for failure to meet the visible emissions standards given in Rule 62-296.320(4)1, F.A.C., such failure shall not be a violation of the rule. **[Rule 62-296.320(4)(b)3, F.A.C.]**
- (c) All visible emissions test performed pursuant to the requirements of Rule 62-296.320(4)(b)1., F.A.C. shall use EPA Reference Method 9, and shall meet all applicable requirements of Chapter 62-297, F.A.C. **[Rule 62-296.320(4)(b)4.a, F.A.C.]**

2.2 Objectionable Odor Prohibited: The permittee shall not 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.]**

*Note: 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, F.A.C.]***

2.3 Volatile Organic Compounds Emissions or Organic Solvents 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. **[Rule 62-296.320(1), F.A.C.]**

2.4 Unconfined Particulate Emission Limiting Standards: The permittee shall not 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 or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions shall include the following:

- (a) Paving and maintenance of roads, parking areas and yards.
- (b) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- (c) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
- (d) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- (e) Landscaping or planting of vegetation.
- (f) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- (g) Confining abrasive blasting where possible.
- (h) Enclosure or covering of conveyor systems.

[Rule 62-296.320(4)(c), F.A.C.]

3.0 PERFORMANCE STANDARDS

3.1 Circumvention: The permittee shall not circumvent air pollution control equipment/methods or allow the emission of air pollutants without the equipment/methods operating properly. **[Rule 62-210.650, F.A.C.]**

SECTION 2. ADMINISTRATIVE REQUIREMENTS

3.2 Excess Emissions Requirements:

- (a) Excess emissions resulting from start-up, shutdown or malfunction of these emissions units shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized, but in no case exceed two hours in any 24 hour period unless specifically authorized by the Health Department for longer duration. **[Rule 62-210.700(1), F.A.C.]**
- (b) Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during start-up, shutdown, or malfunction are prohibited. **[Rule 62-210.700(4), F.A.C.]**
- (c) In case of excess emissions resulting from malfunctions, the permittee shall notify the Air Pollution Control Section of the Health Department within one working day of: the nature, extent, and duration of the excess emissions; the cause of the problem; and the corrective actions being taken to prevent recurrence. **[Rule 62-210.700(6), F.A.C.]**
- (d) (d) Considering operational variations in types of industrial equipment operations affected by this rule, the Department may adjust the maximum and minimum factors to provide reasonable and practical regulatory controls consistent with the public interest. **[Rule 62-210.700(5), F.A.C.]**

3.3 Test Procedures: All test methods and procedures shall be performed in accordance with the applicable requirements of Chapter 62-297, F.A.C. **[Rule 62-297.100, F.A.C.]**

3.4 Operational Rate During Testing: Unless otherwise stated in the applicable emission-limiting standard for a rule, testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. **[Rule 62-297.310(2), F.A.C.]**

3.5 Test Notification: At least 15 days prior to the date on which each formal compliance test is to begin, the permittee shall notify the Health Department in writing of: the test date; the expected test time; the location of the test; the facility contact person responsible for coordinating the test; and the person or company conducting test. The 15 day notification requirement may be waived at the discretion of the Health Department. Likewise, if circumstances prevent testing during the 60-day test window specified for the emissions unit, the owner or operator may request an alternate test date before the expiration of this window. **[Rule 62-297.310(7)(a)9., F.A.C.]**

3.6 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 to provide a report on the results of said tests to the Department. **[Rule 62-297.310(7), F.A.C.]**

4.0 REPORTS REQUIRED

4.1 Annual Operations Report: The annual operating report *[DEP Form No. 62-210.900(5)]* shall be submitted to the Health Department by April 1. If the report is submitted using the Department's electronic annual operating report software (EAOR), there is no requirement to submit a hardcopy to DEP or the Health Department. **[Rule 62-210.370(3)(c), F.A.C.]**

4.2 Excess Emissions Report: If excess emissions occur, the Health Department may request a written summary report of the incident. **[Rules 62-4.130 and 62-210.700(6), F.A.C.]**

SECTION 2. ADMINISTRATIVE REQUIREMENTS

- 4.3 Emission Compliance Stack Test Reports: For each required emissions compliance test, a report indicating the results of the test shall be filed with the Health Department as soon as practical, but no later than 45 days after the last sampling run is completed. The report shall provide sufficient detail on the tested emissions unit and the procedures used to allow the Health Department to determine if the test was properly conducted and if the test results were properly computed. At a minimum, the test report shall provide the applicable information listed in **Rule 62-297.310(8)(c), F.A.C.** Additional report information may be specified for a given group of emissions units in this permit. **[Rule 62-297.310(8), F.A.C.]**
- 4.4 Notifications and Reports: The permittee shall submit all compliance-related notifications and reports required by this permit to the Health Department at:

Florida Department of Health Palm Beach County
Air & Waste Section
Post Office Box 29
800 Clematis Street, 4th Floor
West Palm Beach, Florida 33402-0029
Telephone: (561) 837-5900
Fax: (561) 837-5295

5.0 RECORDKEEPING REQUIREMENTS

- 5.1 Recordkeeping: The permittee shall ensure that all records of monitoring information shall specify the date, place, and time of sampling or measurement and the operating conditions at the time of sampling or measurement, the date(s) analyses were performed, the company or entity that performed the analyses, the analytical techniques or methods used, and the results of such analyses. **[Rule 62-4.070(3), F.A.C.]**
- 5.2 Record Retention: The permittee shall retain records of all monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. **[Rule 62-4.070(3), F.A.C.]**

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP A. This portion of the permit addresses the following emissions unit:

| ID No. | Status | Emission Unit Description |
|--------|--------------------|---|
| 006 | Conditional Exempt | Diesel engines emergency generators <i>SCC # 2-04-004-02: Thousand gallons of diesel fuel</i> <ul style="list-style-type: none">• Heat treat generator, Engine No. CO39024• E-Area 500 kVA generator, Engine No. 574765• E-Area 48 kVA generator, Engine No. 816154 |

{Permitting Note: The facility requested a limit on hours of operations of 30 hours per year for each generator. The total annual fuel usage for all three generators operating 30 hours per year individually will be 4,071 gallons. Pursuant to the Rule 62-210.300(3)(a)35,F.A.C., these emissions unit can be conditionally exempt if the facility uses less than 64,000 gallons total for all three generators.}

RULE APPLICABILITY

- III.A.1 **NESHAP Subpart ZZZZ:** The generators at the facility are subject to the applicable requirements of 40 CFR Part 63 Subpart ZZZZ 'National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE)' Regulations. **[40 CFR 63 Subpart ZZZZ]**

AIR POLLUTION CONTROL EQUIPMENT

- III.A.2 **Controls:** The permittee shall install, operate, and maintain any existing air pollution control equipment in accordance with the manufacturer's instructions and recommendations. The air pollution control equipment shall be on line and functioning properly when operating the emissions units. **[Rules 62-210.650,F.A.C.]**

OPERATION RESTRICTIONS AND PERFORMANCE STANDARDS

- III.A.3 **Fuel Usage:** The total diesel fuel consumption by all engines shall not exceed 64,000 gallons per year. **[Rule 62-210.300(3)(a)35,F.A.C.]**

COMPLIANCE MONITORING REQUIREMENTS

- III.A.4 **Records:** The permittee shall monitor and maintain the monthly record of the actual fuel usage for each generator on or before the 30th day of the following month. **[Permit No. 0990703-001-AC]**

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP B. This portion of the permit addresses the following emissions unit:

| ID No. | Status | Emission Unit Description |
|--------|-----------|---|
| 007 | Regulated | <p>Boiler (BO-12-E6) with a heat input rate of 42 MMBtu per hour located in Test Area E Scotch Marine Model# 100 HP. Stack details: Height 15', exit diameter 2.5', with 6690 ACFM.</p> <p><u>SCC #1-02-006-02</u>: natural gas, external combustion - 10-100 MMBtu/hr</p> |

{Permitting Note: The boiler (EU 007) is not subject to 40 CFR 60 Subpart Dc "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units" since this boiler was constructed before June 9, 1989.}

EMISSION LIMITING AND PERFORMANCE STANDARDS

- III.B.1 Visible Emissions from any boiler shall not exceed 20 percent opacity except for one, six-minute period per hour during which the opacity shall not exceed 27 percent. **[Rule 62-296.406(1), F.A.C.]**
- III.B.2 Particulate Matter and Sulfur Dioxide: Emissions of particulate matter and sulfur dioxide shall be controlled using the Best Available Control Technology (BACT). BACT for this boiler is firing only pipeline quality natural gas. **[Rule 62-296.406(2) and (3), F.A.C., and Permit No. 0990703-001-AC]**
- III.B.3 Unrestricted Hours of Operation: The hours of operation for the boilers are not limited. **[Permit No. 0990703-001-AC]**

COMPLIANCE/PERIODIC MONITORING REQUIREMENTS

- III.B.4 Fuel Use Records: In lieu of conducting annual visible emission observations, the permittee can demonstrate compliance with the visible emission standards by maintaining fuel use records that document the exclusive use of pipeline quality natural gas to fuel the specific emission unit during the previous federal fiscal year. **[Permit No. 0990703-001-AC]**

REPORTS REQUIRED

- III.B.5 Record Keeping requirements: The permittee shall monitor and maintain the monthly record of the actual amount of fuel consumed on or before the 30th day of the following month. All records shall be maintained on site at the facility. The annual amount of fuel consumed by these emission units shall be included in the Annual Operating Report (AOR). **[Rule 62-210.370, F.A.C.]**

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

GROUP C. This portion of the permit addresses the following emissions unit:

| ID No. | Status | Emission Unit Description |
|--------|-----------|--|
| 008 | Regulated | <p>E-8 Rocket Engine Test Stand - Methane Fuel Operations</p> <p>The test stand consists of the Test Site and Propellant Storage Area (PSA). The facility proposes to burn liquid & gaseous methane / liquid oxygen as fuel. This emission unit also has the capability to burn liquid hydrogen/liquid oxygen as fuel. <i>When operating on hydrogen fuel and oxygen, this emission unit does not use any regulated substances and does not emit any regulated air contaminants.</i></p> <p>Currently, the E-8 test stand contains four John Zink utility flares, and three of these flares will be used to burn methane. The facility also installed a burn stack at the PSA to burn any excess methane vented during tanking and pumping.</p> <p>The test stand consists of the Test Site and Propellant Storage Area (PSA). The facility proposes to burn liquid & gaseous methane / liquid oxygen as fuel. This emission unit also has the capability to burn liquid hydrogen/liquid oxygen as fuel. <i>When operating on hydrogen fuel and oxygen, this emission unit does not use any regulated substances and does not emit any regulated air contaminants.</i></p> <p>SCC #2-02-002-01; Natural Gas, Internal Combustion Turbine Engines.</p> |

*The E-8 Test stand burn stack includes three John Zink utility flares (BS 202, BS 203 & BS 204). The Propellant Storage Area (PSA) includes the use of one John Zink flare (BS 2002). The facility calculated the emissions of Carbon Monoxide (CO) using NASA –Glenn CEA 2002 Software program – that was used for estimating the rocket engine performance. According to the estimations, the **CO emissions are 71.24 tons per year.***

The total emission unit wide CO and NOx emissions are estimated to be 71.24 and 0.19 tons per year respectively. This emission unit is not subject to 40 CFR Part 63 Subpart PPPP “National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Stand”, since the test stand is used exclusively for testing rocket engines.

{Permitting Note: The emissions calculations were submitted during permit application 0990021-010-AC for United Technologies, Inc. No changes have been proposed in this permit application.}

OPERATING RESTRICTIONS

III.C.1 Methods of Operation: The permittee shall not allow, cause, suffer or permit any change in the method(s) of operation resulting in increased short-term or long-term potential emissions, without prior authorization from the permitting authority. The authorized methods of operation include the following.

(a) Fuels: The permittee is authorized to use methane, liquid hydrogen, and liquefied natural gas as rocket engine fuels.

(b) Oxidants: The permittee is authorized to use liquid oxygen (LOX) as the rocket engine fuel oxidizer.

[Permit No. 0990703-001-AC]

III.C.2 Methane consumption limit: Rocket engine firings shall not consume more than **265,300 pounds (liquid) OR 5.940 mmcf (gaseous) of methane** in any calendar year.

[Permit No. 0990703-001-AC and to escape Title V regulations]

{Permitting Note: Based on the fuel consumption limit and the calculated emission estimations submitted in the permit application, the emission unit’s potential CO emissions are 71.34 tons per year.}

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

- III.C.3 Hours of Operation: This emission unit is allowed to operate continuously without exceeding the methane consumption limit as **specified in condition III.C.2.**
[Permit No. 0990703-001-AC]

COMPLIANCE MONITORING & RECORD KEEPING REQUIREMENTS

- III.C.4 Fuel Consumption: The permittee shall record and maintain records of the monthly methane consumption at this emission unit on or before the 30th day of the following month. The permittee shall monitor compliance with the annual methane consumption limit, specified in **condition III.C.2.**

[Permit No. 0990703-001-AC]

- III.C.5 Record Keeping: The permittee shall maintain the following records:
- (a) Test Identification number
 - (b) Test date and Time (start and finish)
 - (c) Test duration (planned and actual)
 - (d) Oxidant and fuel types
 - (e) Oxidant/fuel ratio (planned and actual)
 - (f) Fuel usage, and
 - (g) Daily and Monthly totals of test duration, test firings, and fuel usage.

[Permit No. 0990703-001-AC]

REPORTING REQUIREMENTS

- III.C.6 Test Notification: The permittee shall submit the notification to the Health Department at least 24 hours prior to a rocket engine test firing. The notification shall include the date and time of the test firing, the expected duration of the test firing, the planned oxidant/fuel ratio, and the planned fuel usage rate. **[Permit No. 0990703-001-AC]**

SECTION 4. APPENDICES

Contents

- Appendix A. Citation Formats and Glossary of Common Terms
- Appendix B. General Conditions
- Appendix C. General Testing Requirements
- Appendix D. List of Exempted Emissions Units

SECTION 4. APPENDIX A

Citation Formats and Glossary of Common Terms

CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

Old Permit Numbers

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: "AC" identifies the permit as an Air Construction Permit
"AO" identifies the permit as an Air Operation Permit
"123456" identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: "099" represents the specific county ID number in which the project is located
"2222" represents the specific facility ID number for that county
"001" identifies the specific permit project number
"AC" identifies the permit as an air construction permit
"AF" identifies the permit as a minor source federally enforceable state operation permit
"AO" identifies the permit as a minor source air operation permit
"AV" identifies the permit as a major Title V air operation permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: "PSD" means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality
"FL" means that the permit was issued by the State of Florida
"317" identifies the specific permit project number

Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

AAQS: Ambient Air Quality Standard

acf: actual cubic feet

acfm: actual cubic feet per minute

ARMS: Air Resource Management System (DEP database)

BACT: best available control technology

bhp: brake horsepower

SECTION 4. APPENDIX A

Citation Formats and Glossary of Common Terms

| | |
|---|--|
| Btu: British thermal units | MW: megawatt |
| CAM: compliance assurance monitoring | NESHAP: National Emissions Standards for Hazardous Air Pollutants |
| CEMS: continuous emissions monitoring system | NO_x: nitrogen oxides |
| cfm: cubic feet per minute | NSPS: New Source Performance Standards |
| CFR: Code of Federal Regulations | O&M: operation and maintenance |
| CAA: Clean Air Act | O₂: oxygen |
| CMS: continuous monitoring system | Pb: lead |
| CO: carbon monoxide | PM: particulate matter |
| CO₂: carbon dioxide | PM₁₀: particulate matter with a mean aerodynamic diameter of 10 microns or less |
| COMS: continuous opacity monitoring system | ppm: parts per million |
| DARM: Division of Air Resource Management | ppmv: parts per million by volume |
| DEP: Department of Environmental Protection | ppmvd: parts per million by volume, dry basis |
| Department: Department of Environmental Protection | QA: quality assurance |
| dscf: dry standard cubic feet | QC: quality control |
| dscfm: dry standard cubic feet per minute | PSD: prevention of significant deterioration |
| EPA: Environmental Protection Agency | psi: pounds per square inch |
| ESP: electrostatic precipitator (control system for reducing particulate matter) | PTE: potential to emit |
| EU: emissions unit | RACT: reasonably available control technology |
| F.A.C.: Florida Administrative Code | RATA: relative accuracy test audit |
| F.A.W.: Florida Administrative Weekly | RBLC: EPA's RACT/BACT/LAER Clearinghouse |
| F.D.: forced draft | SAM: sulfuric acid mist |
| F.S.: Florida Statutes | scf: standard cubic feet |
| FGD: flue gas desulfurization | scfm: standard cubic feet per minute |
| FGR: flue gas recirculation | SIC: standard industrial classification code |
| Fl: fluoride | SIP: State Implementation Plan |
| ft²: square feet | SNCR: selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides) |
| ft³: cubic feet | SO₂: sulfur dioxide |
| gpm: gallons per minute | TPD: tons/day |
| gr: grains | TPH: tons per hour |
| HAP: hazardous air pollutant | TPY: tons per year |
| Hg: mercury | TRS: total reduced sulfur |
| I.D.: induced draft | UTM: Universal Transverse Mercator coordinate system |
| ID: identification | VE: visible emissions |
| kPa: kilopascals | VOC: volatile organic compounds |
| lb: pound | |
| MACT: maximum achievable technology | |
| MMBtu: million British thermal units | |
| MSDS: material safety data sheets | |

SECTION 4. APPENDIX B

General Conditions

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are “permit conditions” and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
 3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which
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SECTION 4. APPENDIX B

General Conditions

may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
 11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
 13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (not applicable);
 - b. Determination of Prevention of Significant Deterioration (not applicable); and
 - c. Compliance with New Source Performance Standards (not applicable).
 14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - (a) The date, exact place, and time of sampling or measurements;
 - (b) The person responsible for performing the sampling or measurements;
 - (c) The dates analyses were performed;
 - (d) The person responsible for performing the analyses;
 - (e) The analytical techniques or methods used;
 - (f) The results of such analyses.
 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes
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SECTION 4. APPENDIX B

General Conditions

aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SECTION 4. APPENDIX C
General Testing Requirements

Unless otherwise specified in the permit, the following testing requirements apply to all emissions units at the facility.

COMPLIANCE TESTING REQUIREMENTS

1. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. [Rule 62-297.310(2), F.A.C.]
2. Applicable Test Procedures - Opacity Compliance Tests: When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
 - a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.
 - b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.
 - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

[Rule 62-297.310(4), F.A.C.]

3. Determination of Process Variables:
 - a. *Required Equipment*. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
 - b. *Accuracy of Equipment*. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

4. Frequency of Compliance Tests: The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
 - a. *General Compliance Testing*.
 1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting

SECTION 4. APPENDIX C
General Testing Requirements

standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to sub-subparagraph 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - (a) Did not operate; or
 - (b) In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours,
3. During each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for visible emissions, if there is an applicable standard.
4. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- b. *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 to provide a report on the results of said tests to the Department.

[Rule 62-297.310(7), F.A.C.]

RECORDS AND REPORTS

5. Test Reports: The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report shall provide the following information.
 - a. The type, location, and designation of the emissions unit tested.
 - b. The facility at which the emissions unit is located.
 - c. The owner or operator of the emissions unit.
 - d. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 - e. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 - f. The date, starting time and end time of the observation.
 - g. The test procedures used.

SECTION 4. APPENDIX C

General Testing Requirements

- h. The names of individuals who furnished the process variable data, conducted the test, and prepared the report.
- i. The applicable emission standard and the resulting maximum allowable emission rate for the emissions unit plus the test result in the same form and unit of measure.
- j. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

SECTION 4. APPENDIX D

List of Exempted Emissions Units

Following emissions units are exempted from any requirement to obtain air construction permit.

| ID No. | Status | Emission Unit Description |
|--------|--------|---|
| 001 | Exempt | <p>Three Diesel Storage Tanks</p> <p><u>SCC #4-03-010-19</u>: diesel, breathing loss; <u>SCC #4-03-010-21</u>: diesel, working loss</p> <ul style="list-style-type: none"> • Tank DL-13-MHT, 2500 gallon capacity • Tank DL-GEN01, 1000 gallon capacity • Tank DL-Baldor01, 50 gallon capacity |
| 002 | Exempt | <p>Closed –loop flush cleaning (BF-1RL 10) using Vertrel MCA</p> <p>Located in the RL-10 /SSME Rocket Assembly Area consisting of back flushing of rocket engines located in Manufacture Area using Vertrel MCA Solvent</p> <p><u>4-01-002-95</u>: Gallons used</p> <p>{<i>Permitting Note: Since this emissions unit uses non-regulated solvent, Vertrel MCA, and this facility is not a major source for HAPs, NESHAP, Subpart T does not apply</i>}</p> |
| 003 | Exempt | <p>Boiler (BO-14-E8), 6.7 MMBTU/Hr heat input located in the Test Area E.</p> <p>200 Hp Johnson Model No. PFTA 200-4P300-S, fired by propane only. Stack details: Height 24', exit diameter 1', with 2765 ACFM</p> <p><u>SCC #1-03-010-02</u>: propane, external combustion</p> |
| 004 | Exempt | <p>Acid gas scrubbing system (AS-2-MPL)</p> <p>The system controls emissions from parts cleaning tanks to support plating operations.</p> <p><u>3-01-888-01</u>: tons of product used</p> |
| 005 | Exempt | <p>Heat treatment furnaces (FU-3-MHT and FU-4-MHT)</p> <p>Each of these furnaces has a heat input rate of 6 MMBtu / hour located in the Manufacture Area; both are Sunbeam box-type furnaces and burn natural gas only.</p> <p><u>SCC #1-02-006-02</u>: natural gas combustion, 10 - 100 MMBtu per hour</p> |