ENVIRONMENTAL AND COMPLIANCE DEPARTMENT

Jacksonville
Where Florida Begins.

Permittee:
Wood Group Pratt & Whitney Industrial Turbine Services, LLC
6101 Flightline Drive
Jacksonville, FL 32221-8175

Permit No.: 0310496-005-AO
Facility ID No.: 0310496
SIC Number: 8999
Project: Three Gas Turbine Engine Test Cells

This permit is for the operation of three (3) gas turbine engine test cells (GTETC). This facility is located at the Cecil Field Complex, 6101 Flightline Drive, Jacksonville, Duval County, FL 32221; UTM Coordinates: Zone 17, 414.37 km East and 3343.90 km North; Latitude: 30° 13' 31" North and Longitude: 81° 53' 23" West.

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297 Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents, attached hereto or on file with the Environmental and Compliance Department, Environmental Quality Division (Department) in accordance with the terms and conditions of this permit.

Renewal Application Due Date: August 30, 2015
Expiration Date: November 30, 2015

Environmental and Compliance Department
Environmental Quality Division

Richard L. Robinson FOR
Robert Steven Pace, P.E., Manager
Air Quality Branch

RSP/CBJ

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Section I. Facility Information

Subsection A. Facility/Project Description

The operation of (3) gas turbine engine test cells (GTETC) will be performed at this facility. This facility will be testing gas turbine engines, such as the Pratt & Whitney GG4 series engines (Model Nos. FT4A-9, FT4A-11, FT4C-1, and FT4C-3F) and the smaller ST40 engines, that are used in electric generators. The engines will burn JP-4 and/or diesel fuel during the testing.

The facility is a synthetic Non-Title V source of air pollution because the operational limit assumed by the owner will limit the potential emissions of regulated air pollutants to less than 100 tons per year and the potential emissions of Hazardous Air Pollutants (HAP) to less than 10 tons per year (single HAP) and less than 25 tons per year (total HAPs) pursuant to Rule 62-210.200(266), F.A.C., and Rule 2.301, Jacksonville Environmental Protection Board (JEPB).

Subsection B. Summary of Emission Unit (EU) ID Nos. and Brief Descriptions

EU No.	EU Description
001	GTETC – Building 6005 (formerly Bldg. 334)
002	GTETC – Building 6001 (formerly Bldg. 339)
003	GTETC – Building 13360 (formerly Bldg. 811)

Subsection C. Relevant documents

Permit 0310496-003-AO
Permit application received October 22, 2010

Section II. Facility Wide Conditions

Subsection A. General Conditions

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 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.

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:
    ( ) Determination of Best Available Control Technology (BACT)
    ( ) Determination of Prevention of Significant Deterioration (PSD)
    ( ) Compliance with New Source Performance Standards (NSPS)

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:
        1. The date, exact place, and time of sampling or measurements;
        2. The person responsible for performing the sampling or measurements;
        3. The dates analyses were performed;
        4. The person responsible for performing the analyses;
        5. The analytical techniques or methods used;
        6. 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 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.
    [Rule 62-4.160, F.A.C., and Rule 2.1401, JEPB]

Subsection B. Specific Conditions

1. Any revision to a permit or application shall be submitted to and approved by the Department prior to implementation.
   [Rule 62-4.080(2), FAC, and Rule 2.1401, JEPB]

2. Prior to sixty (60) days before the expiration of this permit, the permittee shall apply for renewal of the permit using DEP form No. 62-210.900(4).
   [Rule 62-4.090, F.A.C., and Rule 2.1401, JEPB]

3. The permittee shall submit an annual operation report to the Department for these emission units for each calendar year using DEP Form No. 62-210.900(5) on or before April 1 of the following year.
   [Rule 62-210.370(3), FAC, and Rule 2.301, JEPB]

4. Emission testing shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then EU may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit.
[Rule 62-297.310(2), F.A.C., and Rule 2.1201, JEPB]

5. The permittee shall notify the Department at least fifteen (15) days prior to EU annual compliance testing.
[Rule 62-297.310(7)(a)9, F.A.C, and Rule 2.1201, JEPB]

6. The permittee shall file a report with the Department on the results of each compliance test as soon as practical but no later than forty-five (45) days after completion of testing.
[Rule 62-297.310(8), F.A.C., and Rule 2.1201, JEPB]

7. The permittee shall submit all compliance related notifications and reports required by this permit to:

Environmental and Compliance Department
Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL 32202
Telephone: (904) 255-7100
Fax: (904) 588-0518

Section III. Emission Units and Conditions

Emission Unit No. 001 - GTETC - Bldg. No. 6005 (Formerly Bldg. 334)

Emission Unit Description –Gas Turbine Engine Test Cell

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

2. The total for all three GTETCs shall be limited to a maximum of 120 tests per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

3. The JP-4 and/or diesel fuel usage shall be limited to a maximum of 2500 gallons per hour and 450,000 gallons per year at the facility.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

Emission Limitations and Standards

4. Visible Emissions (VE) shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1, FAC, and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance for VE shall be performed on one GTETC, while operating the largest engine (FT4C) at full power, in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b)4.a, F.A.C., and Rule 2.1101, JEPB]

6. The required minimum period of observation for the compliance test shall be thirty (30) minutes.
[Rule 62-297.310(4)(a)2, F.A.C., and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance of VE shall be performed on one GTETC annually, from the date of November 1, 2010.
[Rule 62-297.310(7)(a)4, F.A.C., and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

8. The permittee shall maintain monthly records of the following:

   a. Type of engine tested
   b. Total operating hours for each engine tested
   c. Type and amount (gallons) of fuel consumed for each engine tested
   d. Engine Rating (hp) for each engine tested

   The records shall be maintained for a minimum of five (5) years and made available to the Department upon request.
   [Rule 62-210.370(2)(h), F.A.C., and Rule 2.301, JEPB]

Emission Unit No. 002 - GTETC - Bldg. No. 6001 (Formerly Bldg. 339)

Emission Unit Description –Gas Turbine Engine Test Cell

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

2. The total for all three GTETCs shall be limited to a maximum of 120 tests per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

3. The JP-4 and/or diesel fuel usage shall be limited to a maximum of 2500 gallons per hour and 450,000 gallons per year at the facility.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

Emission Limitations and Standards

4. Visible Emissions (VE) shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1, FAC, and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance for VE shall be performed on one GTETC, while operating the largest engine (FT4C) at full power, in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b)4.a, F.A.C., and Rule 2.1101, JEPB]

6. The required minimum period of observation for the compliance test shall be thirty (30) minutes.
[Rule 62-297.310(4)(a)2, F.A.C., and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance of VE shall be performed on one GTETC annually, from the date of November 1, 2010.
[Rule 62-297.310(7)(a)4, F.A.C., and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

8. The permittee shall maintain monthly records of the following:

   a. Type of engine tested
   b. Total operating hours for each engine tested
   c. Type and amount (gallons) of fuel consumed for each engine tested
   d. Engine Rating (hp) for each engine tested

   The records shall be maintained for a minimum of five (5) years and made available to the Department upon request.
   [Rule 62-210.370(2)(h), F.A.C., and Rule 2.301, JEPB]

Emission Unit No. 003 - GTETC - Bldg. No. 13360 (Formerly Bldg. 811)

Emission Unit Description –Gas Turbine Engine Test Cell

Essential Potential to Emit (PTE) Parameters

1. This EU shall be allowed to operate continuously; i.e.: 8760 hours per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

2. The total for all three GTETCs shall be limited to a maximum of 120 tests per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

3. The JP-4 and/or diesel fuel usage shall be limited to a maximum of 2500 gallons per hour and 450,000 gallons per year at the facility.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

Emission Limitations and Standards

4. Visible Emissions (VE) shall be limited to less than 20% opacity.
[Rule 62-296.320(4)(b)1, FAC, and Rule 2.1101, JEPB]

Test Methods and Procedures

5. Testing for demonstration of compliance for VE shall be performed on one GTETC, while operating the largest engine (FT4C) at full power, in accordance with EPA Reference Method 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.
[Rule 62-296.320(4)(b)4.a, F.A.C., and Rule 2.1101, JEPB]

6. The required minimum period of observation for the compliance test shall be thirty (30) minutes.
[Rule 62-297.310(4)(a)2, F.A.C., and Rule 2.1201, JEPB]

7. Testing for demonstration of compliance of VE shall be performed on one GTETC annually, from the date of November 1, 2010.
[Rule 62-297.310(7)(a)4, F.A.C., and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

8. The permittee shall maintain monthly records of the following:

   a. Type of engine tested
   b. Total operating hours for each engine tested
   c. Type and amount (gallons) of fuel consumed for each engine tested
   d. Engine Rating (hp) for each engine tested

   The records shall be maintained for a minimum of five (5) years and made available to the Department upon request.
   [Rule 62-210.370(2)(h), F.A.C., and Rule 2.301, JEPB]