Jacksonville
Where Florida Begins.

Permittee:
Shands Jacksonville Medical Center
655 West 8th Street
Jacksonville, Fl 32209-6511

Permit Number: 0310142-007-AO
Facility ID Number: 0310142
SIC Number: 8062
Project: One (1) Natural Gas Fired Boiler

This permit is for the operation of one natural gas fired boiler. This facility is located in Duval County at 655 West 8th Street Jacksonville, FL 32209-6511. The UTM coordinates are Zone 17, 436.50 km East and 3357.25 km North. The latitude and longitude coordinates are 30° 20' 55" North and 81° 39' 53" West.

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

Referenced Attachments made a part of this Permit:
Best Available Control Technology (BACT) Determination

Renewal Application Due Date: **July 31, 2016**
Expiration Date: **September 30, 2016**

Environmental and Compliance Department
Environmental Quality Division

Richard T. 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

This project authorizes the operation of one (1) natural gas fired steam generating boiler. Distillate No. 2 fuel oil may be used during periods of natural gas curtailment. The Bryan Boiler, Model RW-1700-S-150-FDGO, is rated at 18.0 x 10^6 Btu per hour heat input.

The facility is a natural non-Title V source of air pollution because the potential emissions of regulated air pollutants are less than 100 tons per year pursuant to Chapter 62-210, F.A.C., and Rule 2.301, JEPB.

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

EU No.	EU Description
006	Bryan Boiler No. 2

Subsection C. Relevant documents

Permit Number: 0310142-005-AO
Air operating permit application received July 29, 2011

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 Permitting Authority 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 Permitting Authority.

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 Permitting Authority 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 rules, unless specifically authorized by an order from the Permitting Authority.

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 Permitting Authority 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 Permitting Authority rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Permitting Authority 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 Permitting Authority 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 Permitting Authority 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 Permitting Authority 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 Permitting Authority may be used by the Permitting Authority as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Permitting Authority 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 Permitting Authority 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 Permitting Authority rules.

11. This permit is transferable only upon Permitting Authority 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 Permitting Authority.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:
    (X) Determination of Best Available Control Technology (BACT)
    (X) 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 Permitting Authority rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Permitting Authority.
    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 Permitting Authority rule.
    c. Records of monitoring information shall include:
        i. The date, exact place, and time of sampling or measurements;
        ii. The person responsible for performing the sampling or measurements;
        iii. The dates analyses were performed;
        iv. The person responsible for performing the analyses;
        v. The analytical techniques or methods used;
        vi. The results of such analyses.

15. When requested by the Permitting Authority, 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 Permitting Authority, 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. The permittee shall not operate, maintain, perform construction, expand, or modify this facility without an appropriate and valid air permit issued by the Permitting Authority.
   [Rule 62-4.030, F.A.C., and Rule 2.1401, JEPB]

2. The permittee shall obtain an appropriate air permit from the Permitting Authority by applying on the forms prescribed by the Permitting Authority and submitting such additional information as the Permitting Authority by law may require. All applications and supporting documents shall be filed in quadruplicate with the Permitting Authority. The requirement to file application forms in quadruplicate is waived per 62-210.900 if an air permit application is submitted using the Department of Environmental Protection (DEP) electronic application website.
   [Rule 62-4.050, F.A.C., and Rule 2.1401, JEPB]

3. For good cause shown and after notice and an administrative hearing, if requested, the Permitting Authority may require the permittee to conform to new or additional conditions. The Permitting Authority shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Permitting Authority may grant additional time.
   [Rule 62-4.080(1), F.A.C.]

4. The permittee shall submit a desired revision to an air permit or application and receive the approval of the Permitting Authority prior to implementation.
   [Rule 62-4.080(2), F.A.C., and Rule 2.1401, JEPB]

5. The permittee shall submit an "Application for Non-Title V Air Permit Renewal" (DEP Form 62-210.900(4)) to the Permitting Authority no later than sixty (60) days before the expiration of this permit.
[Rule 62-4.090, F.A.C., and Rule 2.1401, JEPB]

6. The permittee shall submit an "Application for Transfer of Air Permit" (DEP Form 62-210.900(7)) to the Permitting Authority within 30 days after the sale or legal transfer of a permitted facility. The application must be completed with the notarized signatures of both the permittee and the proposed new permittee.
[Rule 62-4.120, F.A.C., and Rule 2.1401, JEPB]

7. The permittee shall immediately notify the Permitting Authority if the permittee is unable to comply with any of the conditions of an air permit.
[Rule 62-4.130, F.A.C., and Rule 2.1401, JEPB]

8. The owner or operator of any proposed new, reconstructed, or modified facility, emissions unit, or pollution control equipment shall obtain an air construction permit prior to the beginning of construction, reconstruction or modification of the facility, emissions unit or the addition of air pollution control equipment.
[Rule 62-210.300(1)(a), F.A.C., and Rule 2.301, JEPB]

9. All limitations and requirements of an air construction permit that are applicable to the design and operation of the permitted facility or emissions unit shall remain in effect until the facility or emissions unit is permanently shut down, except for any such limitation or requirement that is obsolete by its nature. Any change to a facility that would constitute a modification, as defined at Rule 62-210.200, F.A.C., shall be accomplished only following the issuance of an air construction permit.
[Rule 62-210.300(1)(b), F.A.C., and Rule 2.301, JEPB]

10. The permittee shall notify the Permitting Authority in writing of minor corrections or amendments to information contained in an air permit. Such minor corrections or amendments shall include:
    a. Typographical errors noted in the permit
    b. Name, address or phone number change from that in the permit
    c. A change requiring more frequent monitoring or reporting by the permittee
    d. A change in ownership or operational control of a facility
    [Rule 62-210.360, F.A.C., and Rule 2.301, JEPB]

11. The permittee shall not circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
[Rule 62-210.650, F.A.C., and Rule 2.301, JEPB]

12. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing:
    a. best operational practices to minimize emissions are adhered to and
    b. 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 Permitting Authority for longer duration.
    [Rule 62-210.700(1), F.A.C., and Rule 2.301, JEPB]

13. The permittee shall not allow any 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.
[Rule 62-210.700(4), F.A.C., and Rule 2.301, JEPB]

14. The permittee shall immediately notify the Permitting Authority of any excess emissions resulting from malfunctions in accordance with 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Permitting Authority.
[Rule 62-210.700(6), F.A.C., and Rule 2.301, JEPB]

15. 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., and Rule 2.1101, JEPB]

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

17. 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 when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards. Equipment or instruments used to directly or indirectly determine process variables 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., and Rule 2.1201, JEPB]

18. The permittee shall provide stack sampling facilities, upon Permitting Authority request, with a method of access that is safe and readily accessible in accordance with OSHA standards (29CFR1910, Subparts D and E). Permanent sampling facilities are not required.
[Rule 62-297.310(6), F.A.C., and Rule 2.1201, JEPB]

19. The permittee shall notify the Permitting Authority at least fifteen (15) days prior to emission unit compliance testing.
[Rule 62-297.310(7)(a)9, F.A.C., and Rule 2.1201, JEPB]

20. The permittee shall file a report with the Permitting Authority 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]

21. All documents related to applications for permits to construct or operate an emissions unit and all documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Permitting Authority. The Permitting Authority for this project is the City of Jacksonville, Environmental and Compliance Department, Environmental Quality Division. The Permitting Authority's mailing address is:

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

22. This facility is subject to Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 365 [Hazardous Regulated Substance Program], and Chapter 376 [Odor Control] of the Ordinance Code of the City of Jacksonville, Title X; and Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice], and Rule 2, Part Numbers I through III and Part Numbers X through XIV [Air Pollution Control], JEPB.

23. Unless otherwise specified in this permit, the operation of the subject emission unit shall be in accordance with the capacities and specifications stated in the application.

24. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local regulations.

Section III. Emission Units and Conditions

Emission Unit 006 – Bryan Boiler No. 2

Emission Unit Description - Bryan Boiler, Model RW-1700-S-150-FDGO, rated at 18.0 x 10^6 Btu per hour heat input. Primary fuel is natural gas. Distillate No. 2 fuel oil may be used during periods of natural gas curtailment.

Control Device – None

Essential Potential to Emit (PTE) Parameters

1. This emission unit shall not exceed 18.0 MMBtu per hour heat input.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

2. The primary fuel for this emission unit is natural gas. Distillate No. 2 fuel oil may be used during periods of gas curtailment, gas supply emergencies or for testing purposes.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

3. The hours of operation for this emission unit are not limited, i.e., 8760 hours per year.
[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

4. The burning of Distillate No. 2 fuel oil for periodic testing purposes is limited to 48 hours per calendar year at 100 gallons per hour (4800 gal/yr).
[40CFR63 Section 63.11237, Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

5. The burning of Distillate No. 2 fuel oil is limited to 400 hours per calendar year at 100 gallons per hour (40,000 gal/yr).
[Per applicant request, Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

Emission Limitations and Standards

6. This emission unit is subject to the applicable sections of 40CFR60, Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units and Subpart A—General Provisions.

7. The opacity standards apply at all times except during periods of startup, shutdown, and malfunction.
[40CFR60.11(c), 40CFR60.43c(d), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

8. The Distillate No. 2 fuel oil sulfur limits apply at all times including periods of startup, shutdown, and malfunction.
[40CFR60.42c(i), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

9. Visible Emissions (VE) shall not exceed twenty (20) percent opacity except for one two-minute period per hour during which opacity shall not exceed 40 percent.
[Rule 62-296.406(1), F.A.C., and Rule 2.1101, JEPB]

10. Sulfur dioxide (SO_2) and Particulate Matter (PM) emissions shall be controlled in accordance with the Best Available Control Technology (BACT) determination. The sulfur content of the Distillate No. 2 fuel oil shall not exceed 0.05%, by weight.
[Rule 62-296.406(2) & (3), F.A.C., Rule 2.1101, JEPB, and BACT Determination]

Test Methods and Procedures

11. Testing for demonstration of compliance of VE shall be performed annually from the date of May 1, 2011 in accordance with Environmental Protection Agency Reference Method (RM) 9 (as described in 40 CFR 60, Appendix A) and the provisions of 40 CFR 60.11 for the visual determination of opacity. Testing shall be conducted for a minimum period of 60 minutes.
[Rule 62-297.310(4)(a)2, F.A.C., Rule 62-297.310(7)(a)5, F.A.C., and Rule 2.1201, JEPB]

12. Testing for demonstration of compliance of Distillate No. 2 fuel oil sulfur content shall be performed with each delivery of Distillate No. 2 fuel oil. Fuel oil sulfur content may be determined through certification by the fuel oil supplier or by the use of ASTM Test Method D 2622-94, Standard Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry. The supplier certification shall contain the following information:
    a. The name of the oil supplier;
    b. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40CFR60.41c; and
    c. A statement from the oil supplier of the actual sulfur content of the oil and that it does not exceed 0.05% by weight.

    [40CFR60.44c(h), 40CFR60.48c(f)(1), Rule 62-204.800(8)(b)4, F.A.C., and Rule 2.201, JEPB]

Recordkeeping and Reporting

13. The permittee shall maintain a file of all reports, compliance testing measurements, records, and all other pertinent emissions information in a permanent form suitable for inspection. The file shall be retained for at least two (2) years following the date of such reports, measurements and records.
[40CFR60.7(b) and (f), 40CFR60.48c(i), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

14. The permittee shall maintain records of fuel oil supplier certification as described under 40CFR60.48c(f)(1). In addition to fuel oil supplier certification, the records shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel oil supplier certification represent all of the fuel oil combusted during the reporting period.
[40CFR60.48c(d) and (e), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

15. The permittee shall record, maintain, and make available, upon request by the Permitting Authority, records of the total amount of each steam generating unit fuel delivered to the facility during each calendar month.
[40CFR60.48c(g)(3), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

16. The permittee shall submit reports to the Permitting Authority upon request. The reporting period for the reports required under this subpart is each six-month period (Jan. to Jun. and Jul. to Dec.). All reports requested by the Permitting Authority and shall be postmarked by the 30th day following the date of request. [40CFR60.48c(j), Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]