Florida State University
Central Utilities Plant
Facility ID No.: 0730010
Leon County

Federally Enforceable State Operating Permit
Permit No.: 0730010-006-AF

Permitting and Compliance Authority:
Department of Environmental Protection
Northwest District Office
160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740
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[Electronic file name: 0730010-006-AF.doc]

Federally Enforceable State Operating Permit
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Permittee:
Florida State University

Permit No.: 0730010-006-AF
Facility ID No.: 0730010
SIC No(s).: 82, 8221
Project: Federally Enforceable State Operating Permit

This permit revision is being issued for the purpose of incorporating the terms and conditions of the air construction permit, No. 0730010-005-AC, for the Florida State University Central Utilities Plant located at 990 Learning Way, Leon County; UTM Coordinates: Zone 16, 759.5 km East and 3370.9 km North; Latitude: 30° 26' 30" North and Longitude: 85° 17' 52" West.

STATEMENT OF BASIS: This Federally Enforceable State Operating Permit (FESOP) is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Effective Date: March 19, 2010
Revision Effective Date: May 24, 2012
Renewal Application Due Date: January 18, 2015
Expiration Date: March 19, 2015

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

/s/

Rick Bradburn
Air Program Administrator

RB/aj/c

Section I. Facility Information.

This permit revision incorporates permit 0730010-005-AC into the existing federally enforceable state operating permit 0730010-004-AF, effective March 10, 2010. Florida State University was issued permit 0730010-005-AC, effective January 10, 2011, to replace Emissions Unit (EU) 004 with a new 94.68 MMBtu/hr boiler. The identical existing 83.5 MMBtu/hr boilers No. 1 and No.3 were combined into a new emissions unit to preserve the history of the old emissions units and the hours of operation were reduced to avoid Title V. Construction was completed February 1, 2012. Emissions Units 002, 004 and 010 were inactivated and new Emissions Units 012 and 013were created.

Subsection A. Facility Description.

The Central Utilities Plant facility contains three boilers and is located on the main campus of Florida State University. The facility produces 125 psig saturated steam for use as domestic hot water for dormitories, building heating systems and scientific research facilities. The boilers are fueled primarily with natural gas, but are also capable of burning oil as a standby fuel during periods of natural gas curtailment. Residual oil with 0.5% or less sulfur is authorized for periods of natural gas curtailment. Boilers No. 1 and No. 3 (EU 013) are manufactured by Cleaver Brooks, Model No. D94RH, and are water tube boilers with a maximum heat input rate of 83.5 MMBtu/hr. New Boiler No. 2 (EU 012) is manufactured by Babcock and Wilcox (Model No. FM 103-79) and is a water tube boiler with a maximum heat input rate of 94.68 MMBtu/hr.

Based on the permit application received March 15, 2012, this facility is not a major source of hazardous air pollutants (HAP).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U. ID No.	Brief Description
012	New Boiler No. 2, 94.68 MMBtu/hr (80,000 lb/hr steam @ 125 psig/353ºF)
013	Boiler No. 1and No. 3, 83.5 MMBtu each (70,000 lb/hr steam @ 125 psig/353ºF)

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are on file with permitting authority:
Permit Application received March 15, 2012
Additional Information Request dated April 2, 2012
Additional Information Response received April 17, 2012

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX G-1, GENERAL CONDITIONS, is a part of this permit.

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants that cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. 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, no person shall 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 Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. [Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. 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 standards contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests that identify the nature and quantity of pollutant emissions from the emissions unit and to provide one copy of a report on the results of said tests to the Department. Test reports may be submitted by electronic mail to nwdair@dep.state.fl.us. [Rule 62-297.310(7)(b), F.A.C.]

5. Asbestos. This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C. Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source. [40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]

6. Annual Operating Report.

a) An Annual Operating Report (AOR) for Air Pollutant Emitting Facility, DEP Form 62-210.900(5), shall be submitted for each year by April 1 of the following year. A copy of the form and instructions may be obtained electronically at http://www.dep.state.fl.us/Air/rules/forms/aor.htm. If the report is submitted using the Department's electronic annual operating report software, there is no requirement to submit a copy to any DEP or local air program office.

b) An AOR is required for this facility because this permit synthetically limits the quantity of residual fuel oil. For any calendar year in which residual fuel oil is combusted, the permittee shall include the annual capacity factor, as defined in 40 CFR 60.41c, for each boiler. This information shall be included in a cover letter to the AOR. Appropriate recordkeeping shall be maintained to assure that the maximum capacity factor of 10 percent, for each boiler is not exceeded.

[Rule 62-210.370(3)(c), F.A.C., EPA Determination Detail/Control No.9700034/NSPS/Region4/05-07-96/Jewell Harper and Permit 0730010-005-AC]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) 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.]

8. Sixty days prior to the expiration date of this operation permit, the Permittee shall submit four permit renewal applications using the current version of the renewal form along with the processing fee established in Rule 62-4.050(4), F.A.C., to the Northwest District office of the Department. You can obtain a permit application form or apply for permit renewal electronically at the following web address: http://www.dep.state.fl.us/air/emission/permitting.htm. [Rule 62-4.090, F.A.C.]

9. The permittee shall submit all compliance related notifications and reports required by this permit to the Department's Northwest District office.

Department of Environmental Protection
Northwest District Office
160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740

Notification of compliance testing may be submitted by electronic mail to nwdair@dep.state.fl.us. A copy of all compliance related notifications shall be sent to the Northwest District Branch Office in Tallahassee at Carr Building Suite 115, 3800 Commonwealth Blvd, Tallahassee FL 32301.

10. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is 850/595-0578, day or night, and for emergencies involving a significant threat to human health or the environment is 800/320-0519. For routine business, telephone 850/595-8300 during normal working hours. [Rules 62-210.700 and 62-4.130, F.A.C.]

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
012	New Boiler No. 2, 94.68 MMBtu/hr (80,000 lb/hr steam @ 125 psig/353ºF)
013	Boiler No. 1 and No. 3, 83.5 MMBtu each (70,000 lb/hr steam @ 125 psig/353ºF)

The new Boiler No. 2 (EU 012 which replaced EU 004, old boiler No. 2) is capable of producing 80,000 lb/hr of 125 psig saturated steam. This new boiler is manufactured by Babcock and Wilcox (Model No. FM 103-79) and is a water tube boiler with a maximum design heat input capacity of 94.68 MMBtu/hr.

EU 013 combines existing Boilers No. 1 and No. 3 (replacing EU 002 and EU 010), and reduced their allowable combined hours of operation to avoid Title V. Boilers No. 1 and No. 3 are manufactured by Cleaver Brooks, Model No. D94RH, and are each capable of producing 70, 000 lb/hr of 125 psig saturated steam with a maximum heat input rate of 83.5 MMBtu/hr.

The facility produces 125 psig saturated steam for use as domestic hot water for dormitories, building heating systems and scientific research facilities. All of the boilers are fueled primarily with natural gas, but are also capable of burning residual oil (with sulfur content not to exceed 0.5 %) as a standby fuel during periods of natural gas curtailment. These boilers are subject to 40 CFR 60 subpart Dc.

{Permit Note: The facility was granted approval to use an alternate opacity monitoring method, EPA Method 9, in accordance with 40 CFR 60.13(i)(2) due to the infrequent firing of residual oil, instead of a continuous opacity monitor (40 CFR 60.47c). The approval imposed certain monitoring conditions from EPA Determination Detail/Control No. 9700034/NSPS/Region4/05-07-96/Jewell Harper.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Capacity. The maximum allowable operating rate for Boilers No.1 and No. 3 is to produce 70,000 pounds of steam per hour. For testing purposes, Boilers No. 1 and No.3 (EU 013) each have a maximum allowable operating rate of 70, 000 pounds of 125 psig saturated steam per hour averaged during the test period. Boiler No. 2 (EU 012) has a maximum allowable operating rate of 80,000 pounds of 125 psig saturated steam per hour averaged during the test period. This is the operating rate at which compliance with standards shall be demonstrated. [Rules 62-4.160(2), 62-210.200(PTE), F.A.C.]

A.2. Capacity (facility-wide residual oil use): The maximum annual quantity of residual oil used by new Boiler No. 2(EU 012) and Combined Boilers No. 1 and No. 3 (EU 013) are limited to 172,900 gallons based on a rolling 12-month total. [Rule 62-210.200(PTE), F.A.C.; Permit 0730010-005-AC requested by applicant to avoid Title V]

A.3. Methods of Operation - (Authorized Fuel). The primary fuel is natural gas. Only during periods of natural gas curtailment, the boilers may burn residual oil with a sulfur content not to exceed 0.5%. The total annual capacity factor for oil for each boiler is limited to no more than 10 percent. *Annual capacity factor* means the ratio between the actual heat input to a steam generating unit from oil during a period of

12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated at the maximum allowable heat input. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each month. [40 CFR 60.41c, 60.42c(d), Rules 62-210.200(PTE), F.A.C., 62-204.800(8), F.A.C.; EPA Determination Detail, Control Number: 9700034 (alternative to COMs)]

{Permitting Note: Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5 and 6, as defined by the American Society for Testing and Materials in ASTM D396 (incorporated by reference, see §60.17).}

A.4. Hours of Operation. Boiler No. 2 (EU 012) is allowed to operate continuously, i.e., 8,760 hours/year. The hours of operation for Boiler No. 1 and No. 3 (EU 013) are limited to a combined total of 11,400 boiler operating hours (nominally 5,700 hours for each boiler) per rolling 12-month period. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; Permit 0730010-005-AC]

Emission Limitations and Standards

A.5. Opacity Standard. Emissions shall not exceed 20 percent opacity (six-minute average), except for one six-minute period per hour of not more than 27 percent opacity. This opacity standard applies at all times, except during periods of startup, shutdown, or malfunction. [40 CFR 60.43c(c) & (d); Rules 62-204.800(8), and 62-296.406(1), F.A.C.]

Test Methods and Procedures

A.6.a. Visible Emissions Tests. Visible emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. Visible emissions tests shall be conducted for each boiler (while burning residual oil) in accordance with EPA Method 9 for 60 minutes. Such tests shall be scheduled one time within the final six months of the permit term. The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing. Notification of compliance testing and completed test reports may be submitted by electronic mail to nwdair@dep.state.fl.us. [Rules 62-4.070, 62-297.310(4), (7) & (8), and 62-297.401(9), F.A.C.]

A.6.b. Test Reports. The test reports shall comply with applicable portions of Rule 62-297.310, F.A.C., Test Reports. The Department can require special compliance tests in accordance with Rule 62-297.310(7) F.A.C. Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing. [Rules 62-297.310(8) and 62-297.620(1), F.A.C.]

A.6.c. Testing Operating Rate. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% 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 days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department. [Rules 62-297.310(2) and 62-4.070, F.A.C.]

Monitoring of Operations

A.7. Opacity Observations During Residual Oil Use. At least once during each daylight shift when residual oil is combusted, an observer certified in accordance with EPA Method 9 shall perform a six-minute visible emission observation. In order to obtain representative results, the oil consumption rate during the observation must be the maximum rate during the shift. An observer certified in accordance with EPA Method 9 shall perform a six-minute visible emission observation whenever the boiler reaches operating load after a cold startup with residual oil. If the average opacity for a six-minute set of readings collected exceeds 10 percent, the observer must collect two additional six-minute sets of visible emission readings. [40 CFR 60.47c(g), Rule 62-204.800(8), F.A.C.; Alternative to COMS per EPA Determination Detail/Control No.9700034/NSPS/Region4/05-07-96/Jewell Harper]

A.8. Residual Oil Sulfur Content. In addition to the opacity monitoring required during the use of residual oil, the permittee shall demonstrate compliance with the fuel oil sulfur limits under §60.42c based on shipment fuel sampling. The owner or operator of the affected facility shall sample the oil in the fuel tank after each new shipment of oil is received, as described by the following:

a. Oil samples shall be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The permittee shall analyze the oil sample to determine the sulfur content of the oil.
b. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling.
c. Compliance with the fuel oil sulfur limits shall be determined on a 30-day rolling average basis. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received.

If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the owner or operator shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less. Fuel oil sulfur limits shall apply at all times, including periods of startup, shutdown, and malfunction.
[40 CFR 60.42c(g) & (i), 60.44c(g) and 60.46c(d)(2), Rule 62-204.800(8), F.A.C.]

RECORDS AND REPORTS

A.9. Excess Emissions Reports. Thirty days after the end of each semiannual period in which there are opacity excess emissions during oil combustion, the facility must submit an excess emission report (EER) to the Department. The report shall be postmarked by the 30th day following the end of a relevant semiannual period. The report may be submitted by electronic mail to nwdair@dep.state.fl.us. For reporting purposes, excess emissions are defined as any six-minute period during which the average opacity exceeds 20 percent, and EERs must indicate the total time of the visible emissions observations during the reporting period and identify the duration of any excess emissions. [40 CFR 60.48c(c) & (j), Rule 62-204.800(8), F.A.C.]

A.10. Residual Oil Sulfur Content Reports. The permittee shall keep records of the residual oil sulfur content and submit reports for each six-month period. The records and reports shall include the following:

a. Calendar dates covered in the reporting period.
b. Each 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.

Reports shall be postmarked by the 30th day following the end of the relevant semiannual period. Reports may be submitted by electronic mail to nwdair@dep.state.fl.us.
[40 CFR 60.48c (d) & (j), Rule 62-204.800(8), F.A.C.]

A.11. Opacity Observation Records. For each opacity observation during periods of residual fuel oil use conducted using Method 9, the permittee shall keep the following records:

a. Dates and time intervals of all opacity observation periods;
b. Name, affiliation, and copy of current visible emissions reading certification for each visible emissions observer participating in the observation; and
c. Copies of all visible emissions observer opacity field data sheets.

All opacity observation records shall be made available for inspection upon request of the Department.
[40 CFR 60.47c(g), Rule 62-204.800(8), F.A.C.; Alternative to COMs per EPA Determination Detail/Control No. 9700034/NSPS/Region4/05-07-96/Jewell Harper]

A.12. Operational Data (Fuel Records): The permittee shall maintain records of the quantities of residual oil and natural gas combusted each month and on a 12-month rolling total. These records will be made available for inspection upon request by the Department. [40 CFR 60.48c(g)(2), Rule 62-204.800(8), F.A.C.]

A.13. Operational Data (Hours of Operation). The permittee shall maintain records of the individual and combined hours of operation for EU 013 (Boilers No. 1 and No. 3) on a daily, monthly and 12-month rolling total basis. These records shall be available on request for Department inspection.
[Rule 62-210.300(2)(b), F.A.C., and Permit No. 0730010-005-AC to avoid Title V]

A.14. Boiler Maintenance Records. The facility must maintain the boilers following procedures and schedules recommended by the boiler manufacturer. Records shall be kept to verify that the necessary maintenance activities have been performed. These records shall be made available for inspection upon request of the Department. [Rule 62-4.160(2), F.A.C.; EPA Determination Detail/Control No. 9700034/NSPS/Region 4/05-07-96/Jewell Harper]

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, Florida Statutes. 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 403.087(6) and 403.722(5), Florida Statutes, 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 the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does 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, are 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 for the purpose of:

a. Have access to and copy any records that must be kept under conditions of this 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 exact 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 that 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 proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with 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 Florida Administrative Code Rules 62-4.120 and 62-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer.

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

13. 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:
- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used;
- the results of such analyses.

14. 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.