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Florida Department of Corrections  
Apalachee Correctional Institution  
Facility ID No.: 0630044  
Jackson County

Air Operation Permit  
**Permit No.: 0630044-003-AO**

Permitting and Compliance Authority  
Department of Environmental Protection  
Northwest District Office  
160 Governmental Center  
Pensacola, FL 32501-5794  
Telephone: 850/595-8364  
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[electronic file name: 0630044-003-ao.doc]

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Jeb Bush  
Governor

# Department of Environmental Protection

Northwest District  
160 Governmental Center  
Pensacola, Florida 32501-5794

David B. Struhs  
Secretary

Permittee:  
Florida Department of Corrections

Permit No.: 0630044-003-AO  
Facility ID No.: 0630044  
SIC Nos.: 92  
Project: Air Operation Permit

This permit is for the operation of the steam boilers at the Apalachee Correctional Institution located at 32 Apalachee Drive in Sneads, Jackson County; UTM Coordinates: Zone 16, 703.0 km East and 3399.3 km North; Latitude: 30° 42' 40" North and Longitude: 84° 52' 47" West.

STATEMENT OF BASIS: This air operation permit 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.

**Referenced attachments made a part of this permit:**

Appendix G-1, General Conditions

**Effective Date: September 29, 2000**  
**Renewal Application Due Date: July 31, 2005**  
**Expiration Date: September 29, 2005**

**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

**Ed K. Middleswart, P.E.**  
**Air Program Administrator**

EKM/rvk

*"More Protection, Less Process"*

*Printed on recycled paper.*

**Section I. Facility Information.**

**Subsection A. Facility Description.**

The Florida Department of Corrections (DOC) operates five steam boilers in various buildings at the Apalachee Correctional Institution. These boilers range in size from 1.69 to 6.35 MMBtu/hr heat input, and burn No. 2 fuel oil with a maximum sulfur content of 0.5% by weight. DOC has committed to convert all of the boilers to natural gas prior to December 31, 2001.

The facility also operates fifteen small (less than 1.3 MMBtu/hr heat input) hot water boilers that burn No. 2 fuel used for comfort heating. These hot water boilers are generally 10 HP units, and are exempt from permitting in accordance with Rule 62-210.300(3)(a)4, F.A.C., which exempts from permitting comfort heating units with a gross heat output less than one MMBtu/hr.

Based on the permit application received August 1, 2000, this facility is not a major source of hazardous air pollutants (HAPs).

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

**E.U.**

<b><u>ID No.</u></b>	<b><u>Brief Description</u></b>
001	Boilers 1-5

*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 August 1, 2000

Additional Information Request dated August 21, 2000

Additional Information Response received September 25, 2000

**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 which 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. Sixty days prior to the expiration date of this operation permit, the Permittee shall submit two permit renewal applications using the current version of the renewal form along with the processing fee established in FAC Rule 62-4.050(4) to the Northwest District office of the Department.  
[Rule 62-4.090, F.A.C.]
5. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northwest District office:

Department of Environmental Protection  
Northwest District Office  
160 Governmental Center  
Pensacola, Florida 32501-5794  
Telephone: 850/595-8364, press 7; Fax: 850/595-8096

A copy of all compliance related notifications shall be sent to the Northwest District Branch Office in Panama City at 2353 Jenks Ave, Panama City FL

6. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 595-8364, extension 1220, 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) 595-8364, then press 7, 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**

<b><u>No.</u></b>	<b><u>Brief Description</u></b>
001	Boilers 1-5

This emission unit includes the five steam boilers in various buildings at the Apalachee Correctional Institution. These boilers range in size from 1.69 to 6.35 MMBtu/hr heat input, and burn No. 2 fuel oil with a maximum sulfur content of 0.5% by weight. These boilers are subject to Rue 62-296.406, F.A.C. – Fossil Fuel Steam Generators with less than 250 MMBtu/hr Heat Input which requires BACT for PM and SO<sub>2</sub> and includes a tiered VE limit. A BACT determination was made September 16, 1994 that limited fuel oil usage to not more than 1.42 million gallons per year and the sulfur content to 0.5%S or less by weight, particulate matter to 0.02 lbs/MMBtu, and SO<sub>2</sub> to 0.06 lbs/MMBtu. Construction permit AC32-25683 was issued September 1, 1995 incorporating the BACT requirements. The permittee has committed to convert all of the boilers to natural gas prior to December 31, 2001 as an alternative to conducting PM testing.

**The following specific conditions apply to the emissions unit(s) listed above:**

**Essential Potential to Emit (PTE) Parameters**

**A.1. Capacity.** The maximum allowable operating rate for each boiler is as follows:

Boiler	Description	Location	Maximum Heat Input (MMBtu/hr)
1	100 HP Cleaver Brooks	W. Unit - Kitchen	4.23
2	125 HP Cleaver Brooks	W. Unit - Kitchen	5.29
3	150 HP Cleaver Brooks	E. Unit – Laundry	6.35
4	40 HP Kewanee	Admin Building	1.69
5	125 HP Cleaver Brooks	E. Unit - Kitchen	5.29

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; Construction Permit AC32-25683 issued September 1, 1995]

**A.2. Hours of Operation.** This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

**A.3. Methods of Operation - (i.e., Fuels).** The facility may operate using No. 2 fuel oil with a maximum sulfur content of 0.5% by weight, or pipe line quality natural gas. Boiler 5 is allowed to use LP gas as an alternate fuel. Fuel oil consumption shall not exceed 1.42 million gallons in any consecutive twelve-month period. The owner shall maintain records to demonstrate that each shipment of fuel oil has 0.5 percent or less sulfur and that the sulfur content was determined by ASTM methods ASTM D4057-88 and ASTM D129-91, ASTM D2622-94 or ASTM D4294-90, adopted and incorporated by reference in Rule 62- 297.440(1).  
[Rule 62-287.440 F.A.C.; Construction Permit AC32-25683 issued September 1, 1995]

#### **Emission Limitations and Standards**

**A.4. VE.** Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40%.  
[Rule 62-296.406, F.A.C.]

**A.5. PM.** Particulate matter emissions shall not exceed 0.02 lbs/MMBtu heat input.  
[Rule 62-296.406, F.A.C.; BACT, September 16, 1994; Construction Permit AC32-25683 issued September 1, 1995]

**A.6. SO<sub>2</sub>.** Sulfur dioxide emissions shall not exceed 0.60 lbs/MMBtu heat input. Use of fuel oil with no more than 0.5% S by weight demonstrates compliance with this requirement.  
[Rule 62-296.406, F.A.C.; BACT, September 16, 1994; Construction Permit AC32-25683 issued September 1, 1995]

#### **Test Requirements, Methods, and Procedures**

**A.7.** Visible Emissions tests are required to show compliance with the visible emissions limit. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. The visible emissions tests shall be conducted in accordance with DEP Method 9 for one hour. Such tests shall be scheduled annually between May 1 and June 30. 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, and shall comply with applicable portions of rule 62-297.310, Test Reports.  
[Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

**A.8.** Particulate matter tests are not required to show compliance with the particulate matter limit provided no six minute average opacity during the visible emissions tests exceeds 5% opacity.  
[Rules 62-4.070, F.A.C.; additional information received September 25, 2000]

**A.9. 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 may 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.]

**A.10.** 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, then operation at higher capacities is allowed for no more than fifteen 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.]

#### **Recordkeeping and Reporting Requirements**

**A.11.** The permittee shall demonstrate compliance with the sulfur dioxide standard by establishing and maintaining a record of the sulfur content (percent, by weight) and the monthly and the twelve-month rolling quantity of the "as-fired" fuel oil. This record may be maintained by retaining the delivery receipts that are provided by the fuel oil vendor documenting the sulfur content and fuel quantity (and substantiating the proper ASTM test methods have been followed) each time a fuel oil delivery is received. Such records shall be retained for five years, and shall be made available for Department inspection.

[Rule 62-4.070, and 62-297.310(7), F.A.C.]

#### **Commitments:**

**A.12.** The use of distillate or fuel oil in these boilers shall be discontinued by December 31, 2001; and, the boilers shall be converted and limited to the combustion of natural gas.

[Additional Information received September 25, 2000]

**Excess Emissions**

**A.13.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit 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 Department for longer durations.

Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

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 startup, shutdown, or malfunction shall be prohibited.

In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Rule 62-210.700, F.A.C.]

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Appendix G-1

**GENERAL CONDITIONS:**

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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. Nor 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 does not constitute 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
  - a. Having access to and copying any records that must be kept under the conditions of this permit;
  - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,
  - c. Sampling or monitoring 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

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Appendix G-1

**GENERAL CONDITIONS:**

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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 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 transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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 measurement;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- 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.