



WSS 3/24/88

Journal Express file copy
12-17-87
Jax, FL 32216
air bill # 6951037741

AN RSH COMPANY

**ENVIRONMENTAL SCIENCE
AND ENGINEERING, INC.**

December 17, 1987
87031-0000

Clair H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DER
DEC 18 1987
BAQM

Subject: File No. AC56-141460
Fort Pierce Utilities Authority
Fort Pierce, Florida

Re: Letter to H. Schindehette, FPUA, from
C.H. Fancy, FDER, dated 12/1/87

Dear Mr. Fancy:

The following information is submitted on behalf of the Fort Pierce Utilities Authority (FPUA) as requested in the referenced letter. This submittal has been discussed with Ms. Teresa Heron of your staff.

• Contemporaneous Emissions Calculations

It is agreed that the currently operating Units 6, 7, and 8 are currently permitted to operate more hours each than the number of hours requested in the permit application for the new Unit 9. The following table depicts the number of hours each unit is permitted to operate, is currently operating, and is projected to operate after construction of Unit 9:

Unit	Permitted Limits (hrs/yr)	Current Operating Rate (hrs/yr)	Projected Operating Rate (hrs/yr)
6	840	12	12
7	3024	2748.6	1344
8	8736	7262.9	6384
9	N/A	N/A	6720
TOTAL	12,600	10,023.5	14,460

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL NUMBER

6951037741

7344 H

6951037741

EXHIBIT/ENCLOSURE

Date: 12-17-87

From (Your Name) Please Print: **George L. Whitmer**

Your Phone Number (Very Important): **(904) 739-2007**

To (Recipient's Name) Please Print: **Clark Fancy**

Recipient's Phone Number (Very Important): **(904) 488-0876**

Company: **ENVIRONMENTAL SCIENCE ENGINEERING**

Department/Floor No.: **FL Dept. of Environmental Regulation**

Street Address: **6737 SOUTHPOINT CR S.**

City: **JACKSONVILLE**

State: **FL**

ZIP: **32399**

YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE.)

87091-0000

PAYMENT: Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card

DEC 18

SERVICES CHECK ONLY ONE BOX

PRIORITY 1 Overnight Delivery Using Your Packaging

OVERNIGHT LETTER Our Packaging (Use 12 1/2" x 17 1/2" x 3" Envelope)

OVERNIGHT DELIVERY (USING OUR PACKAGING) Courier-Pak Overnight Envelope

Overnight Box A 12" x 15"

Overnight Tube B 36" x 6" x 6"

STANDARD AIR Delivery not later than second business day

DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED

HOLD FOR PICK-UP (See Section 11 at right)

DELIVER WEEKDAY (To be used only if you are not using Saturday delivery)

DELIVER SATURDAY (Extra charge)

HAZARDOUS GOODS (P-1 and Standard Air Packages only. Extra charge)

CONSTANT SURVEILLANCE SERVICE (CSS) (Extra charge) (Do Not Complete Section 8)

DRY ICE

OTHER SPECIAL SERVICE

SATURDAY PICK-UP (Extra charge)

PACKAGES	WEIGHT	FOUR DECLARED VALUE	OVER SIZE
1	1.00	100.00	
2	1.00	100.00	
3	1.00	100.00	
Total	3.00	300.00	

Received At: **Drop Box**

Date/Time For Federal Express Use: **12/17 1530**

Date/Time Received: **12/17 1530**

FedEx Employee Number: **007**

12-18-87

FYI

(S)

RECIPIENT'S COPY

007

Although the projected operating hours and corresponding annual emissions listed on page 6, Attachment 10 of the subject permit application are less than those in the current operating permits, this situation is not anticipated to present a problem to FPUA because the sum of the projected operating hours for Units 6, 7, 8, and 9 will be greater than the sum of the presently permitted or operating hours for Units 6, 7, and 8. The maximum hours and emissions from the existing sources at this facility are correct as listed on page 6, Appendix 10 of the subject permit application and are repeated below for your convenience.

Parameter	Unit 6		Unit 7		Unit 8	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
Part.	0.4	0.0024	0.568	0.382	0.945	3.017
SO _x	12.38	0.0743	0.1199	0.0806	0.1917	0.612
NO _x	1.31	0.007854	104.35	70.126	173.20	552.86
VOC	0.0236	0.000142	0.266	0.179	0.441	1.407
CO	0.15	0.0009	7.589	5.100	12.59	40.20
hrs/yr	12		1344		6384	

The decrease in emissions listed above and on page 6, Appendix 10 of the subject permit application, are creditable in accordance with Rule 17-2.500(2)(e)4, Creditable Emissions Changes. As requested, a copy of the construction permit application and current operating permit for Unit 6 and the applications for permit renewal and current operating permits for Units 7 and 8 are included as Attachment 1. (The construction permit applications for Units 7 and 8 are not available.)

The other data requested in your letter are addressed as follows:

- Fuel data

The 285.8×10^6 Btu/hr represents the lower heating value (LHV) of the fuel (Attachment 2).

- Heat rate

The 12.87 kilojoules/watt-hr is based on the manufacturer's rated heat rate at manufacturer's rate load and is calculated from the heat input rate of the gas turbine.

Clair H. Fancy
Page 3
December 17, 1987

- Maximum heat input to the boiler

The maximum heat input to the boiler is based on the maximum design flow rate (Attachment 2). No operating data are available.

- No. 2 fuel oil

No. 2 fuel oil will be used as emergency back-up fuel only in the proposed equipment. There are no plans to use any fuel other than natural gas on a routine basis.

I trust that this letter will sufficiently address your questions. We are very anxious to proceed on this project and will appreciate any effort by your office to expedite its processing.

Please feel free to call me if you have any questions concerning this information.

Very truly yours,



George L. Whitmer
Environmental Compliance Manager
Environmental Engineering Division

GLW/cdb

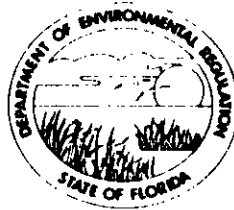
Attachments

cc: Harry Schindehette, P.E., FPUA
Victor Garrison, P.E., FPUA
Harry Lamb, FPUA
Fred Brock, FPUA
Jim Massey, RS&H

Copied: Jurea Heron }
CAFIBT } 12.18.87 (M)
I. Goldman }

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
BRANCH OFFICE2745 SOUTHEAST MORNINGSIDE BOULEVARD
PORT ST. LUCIE, FLORIDA 33452BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:

Superintendent, Power Production
Fort Pierce Utilities Authority
311 North Indian River Drive
Fort Pierce, Florida 33450

APIS No.: 50/56/0003/08

Permit Number: A0-56-112678

Date of Issue: February 14, 1986

Expiration Date: February 14, 1991

County: St. Lucie

Latitude/Longitude: 27°27'00"N/80°19'26"W

Project: Boiler #8

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. 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 department and made a part hereof and specifically described as follows:

OPERATE:

Foster Wheeler Boiler, Unit No. 8, burning natural gas, 596×10^3 ft.³/hr. or 611 million BTU/hr. maximum, discharging pollutants through 96-inch diameter stack, 150 ft. above ground level; equipped with continuous in-stack NO_x and O₂ monitors. Operation is continuous.

IN ACCORDANCE WITH:

The original construction permit, AC-56-12778 and "Application for Renewal of Permit to Operate Air Pollution Source(s)", DER Form 17-1.202(4), received November 22, 1985.

LOCATED AT:

311 North Indian River Drive, Fort Pierce; UTM Coordinates are: Zone 17, 566.8 km E./3,036.3 km N.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through eight (8).

MITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
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, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, 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 at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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, 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 the 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
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 Rule 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, Pt 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rules.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - 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.
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 that 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 submitted or corrected promptly.

PERMITTEE:
Superintendent, Power Production
Fort Pierce Utilities Authority

APIS Number: 50/56/0003/08
Permit Number: AO-56-112678
Date of Issue: February 14, 1986
Expiration Date: February 14, 1991

SPECIFIC CONDITIONS:


1. The emission limits for this source are as referenced in FAC Rule 17-2.660, however, since this source is permitted to burn natural gas only, annual compliance with the particulate standard is determined as granted in the May 13, 1985 permit amendment, the conditions of which are restated below.
2. Natural gas is the only permitted fuel for normal operation. In an emergency or if natural gas is temporarily curtailed, fuel oil may be burned upon notification to the Department within twenty-four hours. Visible emissions shall be no more than 15 percent opacity while using fuel oil.
3. Visible emissions shall be less than 5 percent opacity while firing natural gas. Compliance with the visible emissions standard and the NO_x standard shall be tested for annually, using EPA Methods 9 and 7 respectively, no later than September 30 of each year; at least 15 days prior notification will be afforded to the Department. During the tests the unit will be operating within + 10 percent of maximum rated capacity.
4. If fuel oil usage should exceed 15 days per calendar year, the Department shall be notified and provisions for stack tests per EPA Method 5 shall be made within thirty (30) days. If the Permittee desires to switch to fuel oil for normal operation, application for modification to the permit shall be filed with the Department prior to the fuel switch.
5. Prior to September 30, 1989, compliance testing using EPA Method 5 while firing fuel oil shall be accomplished, at + 10 percent of maximum rated capacity, as least 15 days prior notification shall be afforded to the Department.
6. Should applicable new rules governing this source be promulgated prior to expiration of this permit, the Permittee agrees to comply with the new regulation(s) within a reasonable period of time as allowed by such regulation(s).
7. Quarterly Excess Emission Reports pursuant to the federal New Source Performance Standards (NSPS) contained in 40 CFR 60 (Title 40 Code of Federal Regulations, Part 60) shall be submitted to the Port St. Lucie Branch Office, postmarked no later than the 30th day following the end of each calendar quarter.
8. This permit will expire on 2/14/1991. No later than 60 days prior to this date, the Permittee shall apply for a renewal of the permit on forms provided by the Department. Along with the application, test results showing compliance with the standard must be submitted. The test must have been run no earlier than 90 days from the date of expiration. At least 14 days prior notice shall be afforded the DER Southeast Florida Office in Port St. Lucie so that a representative may witness the test.

AP:tps/17

Issued this 14th day of February, 1986

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

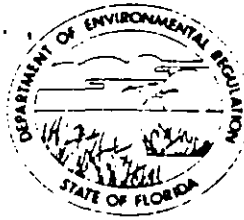
4 Pages attached.


Alexander Padva, Ph.D.
Acting District Manager

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA
SUBDISTRICT

2745 SOUTHEAST MORNINGSIDE BOULEVARD
PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

AL MUELLER
SUBDISTRICT MANAGER

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Power Plant; Boiler #8 Renewal of DER Permit No. AO-56-41413

Company Name: Fort Pierce Utilities Authority County: Saint Lucie

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Boiler No. 8 Fired with No. 6 Fuel Oil or Natural Gas

Source Location: Street: 311 North Indian River Drive City: Fort Pierce

UTM: East 17,566.8 Km North 3,036.3 Km

Latitude: 27° 27' 00" N. Longitude: 80° 19' 26" W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously. PREVIOUSLY SUBMITTED
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process: N/A

Description	Contaminant		Utilization lbs/hr
	Type	%wt	

B. Product Weight (lbs/hr): N/A

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
No. 6 Fuel Oil	25	97	611
Natural Gas	.316	.596	611

D. Normal Equipment Operating Time: hrs/day 24; days/wk 7; wks/yr 52;
 hrs/yr (power plants only) 8,736; if seasonal, describe _____

The undersigned owner or authorized representative*** of Fort Pierce Utilities Authority is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

J. P. Smith
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)

J. P. Smith, Superintendent - Power Production

311 North Indian River Drive
 Typed Name and Title

Fort Pierce, FL 33450
 Address

11/20/85 City State Zip

Date

305/464-5600

Telephone No.

Jane Jones

ATTACHMENT 1E

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
BRANCH OFFICE
2145 SOUTHEAST MORNINGSIDE BOULEVARD
FORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Superintendent, Power Production
Fort Pierce Utilities Authority
311 North Indian River Drive
Fort Pierce, Florida 33450

APIS No.: 50/56/0003/07
Permit Number: AO-56-112679
Date of Issue: February 14, 1986
Expiration Date: February 14, 1991
County: St. Lucie
Latitude/Longitude: 27°27'00"N/80°19'26"W
Project: Boiler #7

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. 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 department and made a part hereof and specifically described as follows:

OPERATE:

Foster Wheeler Boiler, Unit No. 7, burning natural gas, 456.3 x 10³ ft.³/hr. or 470 million BTU/hr. maximum, discharging pollutants through 7.1 ft.² diameter stack, 148 ft. above ground; normally operating 24 hours/day, 7 days/week, 18 weeks/year.

IN ACCORDANCE WITH:

"Application for Renewal of Permit to Operate Air Pollution Source(s)", DER Form 17-1.202(4), received November 22, 1985.

LOCATED AT:

311 North Indian River Drive, Fort Pierce; UTM Coordinates are: Zone 17, 566.8 km E./3,036.3 km N.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through seven (7).

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

GENERAL CONDITIONS:

The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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.

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.

This permit conveys no title to land or water, does not constitute state recognition or acknowledgement 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.

This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, 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.

The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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.

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 the 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.

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 notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 measurements;
 - the person responsible for performing the sampling or measurements;
 - 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.
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 that 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 submitted or corrected promptly.

PERMITTEE:
Superintendent, Power Production
Port Pierce Utilities Authority

APIS Number: 50/56/0003/07
Permit Number: A0-56-112679
Date of Issue: February 14, 1986
Expiration Date: February 14, 1991

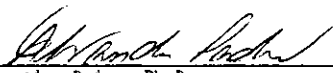
SPECIFIC CONDITIONS:

1. The emission limits for this source are as referenced in FAC Rule 17-2.600(5)(b); however, since this source is permitted to burn natural gas only, annual compliance will be determined as granted in the May 13, 1985 permit amendment, the conditions which are restated below.
2. Natural gas is the only permitted fuel for normal operation. In an emergency or if natural gas is temporarily curtailed, fuel oil may be burned upon notification to the Department within twenty-four hours. Visible emissions shall be no more than 15 percent opacity while using fuel oil.
3. Visible emissions shall be less than 5 percent opacity while firing natural gas. Compliance shall be tested for annually no later than September 30 each year using EPA Method 9; at least 15 days prior notification will be afforded to the Department.
4. If fuel oil usage should exceed 15 days per calendar year, the Department shall be notified and provisions for stack tests per EPA Method 5 shall be made within thirty (30) days. If the Permittee desires to switch to fuel oil for normal operation, application for modification to the permit shall be filed with the Department prior to the fuel switch.
5. Prior to September 30, 1989, compliance testing using EPA Method 5 while firing fuel oil shall be accomplished, at \pm 10 percent of maximum rated capacity, as least 15 days prior notification shall be afforded to the Department.
6. Should applicable new rules governing this source be promulgated prior to expiration of this permit, the Permittee agrees to comply with the new regulation(s) within a reasonable period of time as allowed by such regulation(s).
7. This permit will expire on 2/14/1991. No later than 60 days prior to this date, the Permittee shall apply for a renewal of the permit on forms provided by the Department. Along with the application, test results showing compliance with the standard must be submitted. The test must have been run no earlier than 90 days from the date of expiration. At least 14 days prior notice shall be afforded the DER Southeast Florida Office in Port St. Lucie so that a representative may witness the test.

AP:tps/17

Issued this 14th day of February, 1986

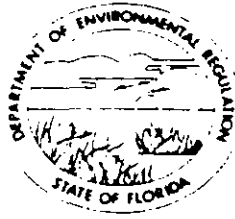
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



Alexander Padva, Ph.D.
Acting District Manager

4 Pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA
SUBDISTRICT2745 SOUTHEAST MORNINGSIDE BOULEVARD
PORT ST. LUCIE, FLORIDA 33452BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARYAL MUELLER
SUBDISTRICT MANAGERAPPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Power Plant Boiler #7 Renewal of DER Permit No. AO-56-32948
 Company Name: Fort Pierce Utilities Authority County: Saint Lucie

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Boiler No. 7 Fired with No. 6 Fuel Oil or Natural Gas

Source Location: Street: 311 North Indian River Drive City: Ft. Pierce
 UTM: East 17,566.8 Km North 3,036.3 Km
 Latitude: 27 ° 27 ' 00 "N. Longitude: 80 ° 19 ' 26 "W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously. PREVIOUSLY SUBMITTED
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process: N/A

Description	Contaminant		Utilization	
	Type	%Wt	Rate	lbs/hr

B. Product Weight (lbs/hr): N/A

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
No. 6 Fuel Oil	37.2	72.7	450
Natural Gas	0.23301	0.45631	470

D. Normal Equipment Operating Time: hrs/day 24 ; days/wk 7 ; wks/yr 18 ;
 hrs/yr (power plants only) 3,025; if seasonal, describe _____

The undersigned owner or authorized representative*** of Fort Pierce Utilities Authority is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

J. P. Smith
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
 J. P. Smith, Superintendent - Power Production

Typed Name and Title
311 North Indian River Drive

Address
Fort Pierce, FL 33450

City State Zip
11/20/85 Date 305/464-5600 Telephone No.

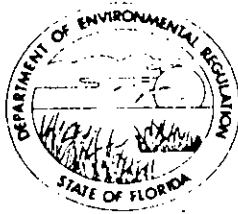
DER Form 17-1.202(4)
 Effective November 30, 1982

Notary Public, State of Florida
 My Commission Expires May 2, 1988
 J. P. Smith

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA DISTRICT
BRANCH OFFICE
2745 SOUTHEAST MORNINGSIDE BOULEVARD
PORT ST. LUCIE, FLORIDA 33452



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:

Fort Pierce Utilities Authority
311 North Indian River Drive
Fort Pierce, Florida 33450

APIS Number: 50/56/0003/01 & 02
Permit Number: A0-56-113534
Date of Issue: February 28, 1986
Expiration Date: February 28, 1991
County: St. Lucie
Latitude/Longitude: 27°27'00"N/80°19'26"W
Project: Unit No. 6

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. 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 department and made a part hereof and specifically described as follows:

OPERATE:

Babcock & Wilcox Boiler, Unit No. 6, burning natural gas, 213,000 ft.³/hr. or 218.8 million BTU/hr. maximum, discharging pollutants through 5 ft. diameter stack, 148 ft. above ground; normally used for standby or peaking purposes.

IN ACCORDANCE WITH:

"Application to Operate/Construct Air Pollution Sources", DER Form 17-1.202(1), as received December 12, 1985.

LOCATED AT:

311 North Indian River Drive, Fort Pierce. UTM Coordinates are: Zone 17; 566.8 km E/3036.3 km N.

SUBJECT TO:

GENERAL CONDITIONS one (1) through fifteen (15) and SPECIFIC CONDITIONS one (1) through seven (7).

PERMITTEE:

I.D. Number:

Permit/Certification Number:

Date of Issue:

Expiration Date:

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
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 acknowledgement 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, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, 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 at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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, 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 the 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 notify and provide the department with the following information:
 - a. a description of and cause of non-compliance; and

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 measurements;
 - the person responsible for performing the sampling or measurements;
 - 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.
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 that 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 submitted or corrected promptly.

PERMITTEE:
Fort Pierce Utilities Authority

APIS Number: 50/56/0003/01 & 02
Permit Number: AO-56-113534
Date of Issue: February 28, 1986
Expiration Date: February 28, 1991

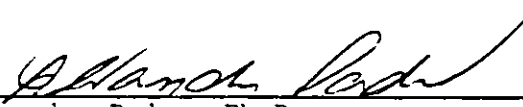
SPECIFIC CONDITIONS:

1. The emission limits for this source are as referenced in FAC Rule 17-2.600(6); however, since this source is permitted to burn natural gas only, annual compliance will be determined as granted in the May 13, 1985 permit ammendment, the conditions which are restated below.
2. Natural gas is the only permitted fuel for normal operation. In an emergency or if natural gas is temporarily curtailed, fuel oil may be burned upon notification to the Department within twenty-four hours. Visible emissions shall be no more than 15 percent opacity while using fuel oil.
3. Visible emissions shall be less than 5 percent opacity while firing natural gas. Compliance shall be tested for annually no later than September 30 each year using EPA Method 9; at least 15 days prior notification will be afforded to the Department.
4. If fuel oil usage should exceed 15 days per calender year, the Department shall be notified and provisions for stack tests per EPA Method 5 shall be made within thirty (30) days. If the Permittee desires to switch to fuel oil for normal operation, application for modification to the permit shall be filed with the Department prior to the fuel switch.
5. Prior to September 30, 1989, compliance testing using EPA Method 5 while firing fuel oil shall be accomplished, at + 10 percent of maximum rated capacity, at least 15 days prior notification shall be afforded to the Department.
6. Should applicable new rules governing this source be promulgated prior to expiration of this permit, the Permittee agrees to comply with the new regulation(s) within a reasonable period of time as allowed by such regulation(s).
7. This permit will expire on 02/28/1991. No later than 60 days prior to this date, the Permittee shall apply for renewal of the permit on forms provided by the Department. Along with the application, test results showing compliance with the standard must be submitted. The test must have been run no earlier than 90 days from the date of expiration. At least 14 days prior notice shall be afforded the DER Southeast Florida Office in Port St. Lucie so that a representative may witness the test.

AP:tps/20

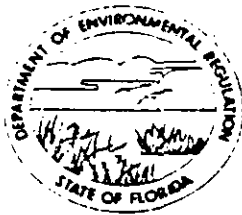
Issued this 28th day of February, 1986

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION


Alexander Padva, Ph.D.
Acting District Manager

4 Pages attached.

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHEAST FLORIDA
SUBDISTRICTSOUTHEAST MORNINGSIDe BOULEVARD
ST. LUCIE, FLORIDA 33452BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARYAL MUELLER
SUBDISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Power Plant Boiler No. 6 [] New¹ [X] Existing¹

APPLICATION TYPE: [] Construction [X] Operation [] Modification

COMPANY NAME: Fort Pierce Utilities Authority COUNTY: Saint LucieIdentify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) No. 6 Fuel OilSOURCE LOCATION: Street 311 North Indian River Drive City Fort PierceUTM: East 17,566.8 Km North 3,036.3 KmLatitude 27 ° 27 ' 00 "N Longitude 80 ° 19 ' 26 "WAPPLICANT NAME AND TITLE: J. P. Smith, Superintendent - Power ProductionAPPLICANT ADDRESS: 311 North Indian River Drive

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Fort Pierce Utilities AuthorityI certify that the statements made in this application for an Operating permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: J. P. SmithJ. P. Smith, Superintendent - Power Production
Name and Title (Please Type)Date: 11-20-85 Telephone No. 305/464-5600

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed Joe B Gerson
Joe B. Gerson, P.E.
Name (Please Type)

Reynolds, Smith and Hills
Company Name (Please Type)
Post Office Box 4850, Jacksonville, FL 32201
Mailing Address (Please Type)

Florida Registration No. 20131 Date: 12-4-85 Telephone No. (904)739-2000

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Continued operation of No. 6 Boiler, burning #6 Fuel Oil.
Unit has cyclone type mechanical collector.
operation will remain in compliance

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction _____ Completion of Construction _____

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

AO-56-2522 Issued June 24, 1975 Expired June 30, 1980
AO-56-32954 Issued November 4, 1980 Expired October 31, 1985

(E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 5 ;
if power plant, hrs/yr 840 ; if seasonal, describe: Used during peak loads and/or
as standby unit only.

F. If this is a new source or major modification, answer the following questions.
(Yes or No) NOT APPLICABLE

1. Is this source in a non-attainment area for a particular pollutant? _____
 - a. If yes, has "offset" been applied? _____
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
 - c. If yes, list non-attainment pollutants. _____
2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. _____
3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. _____
4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? _____
5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? _____

- (H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? NOT APPLICABLE _____
- a. If yes, for what pollutants? _____
 - b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) NOT APPLICABLE

1. Total Process Input Rate (lbs/hr): _____

2. Product Weight (lbs/hr): _____

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr.	T/yr	
Particulates	20	8.4	17-2.600(6)(b)	0.4 lb.	20	8.4	A
	per permit			per 10 ⁶ BTU			
Sulfur Dioxide	Calculated	-----	-----	-----	411	173	A

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

NOTE: According to Chapter 17-2.100 (127), the revised definition of "Potential Emission" refers to emissions after the control device.

D. Control Devices: (See Section V, Item 4)

NOT APPLICABLE

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 6 Fuel Oil	22.6	35.1	218.82
Natural Gas	0.137	0.213	218.82

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: 2.69 Percent Ash: 0.029
 Density: 8.05 lbs/gal Typical Percent Nitrogen: Not available
 Heat Capacity: 18,439 BTU/lb 148,434 BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating. NOT APPLICABLE

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal. NOT APPLICABLE

Brief description of operating characteristics of control devices: _____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

Explain method of determining

- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft. b. Diameter: ft.
- c. Flow Rate: ACFM d. Temperature: °F.
- e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device: b. Operating Principles:
- c. Efficiency:¹ d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:² h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device: b. Operating Principles:
- c. Efficiency:¹ d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:² h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency:¹
- d. Capital Costs:
- e. Useful Life:
- f. Operating Cost:
- g. Energy:²
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
 - a. (1) Company:
 - (2) Mailing Address:
 - (3) City:
 - (4) State:

¹ Explain method of determining efficiency.
 Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration
_____	_____
_____	_____
_____	_____

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir
Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

a. Was instrumentation EPA referenced or its equivalent? [] Yes [] No

b. Was instrumentation calibrated in accordance with Department procedures?
[] Yes [] No [] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

2. Surface data obtained from (location) _____

3. Upper air (mixing height) data obtained from (location) _____

4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.

2. _____ Modified? If yes, attach description.

3. _____ Modified? If yes, attach description.

4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ₂	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

INFORMATION: In response to DER Form 17-1.122(33) Dated 8-11-80

NAME: Boiler #6

PERMIT FILE NO.: A0-56-32954

A. Name of manufacturer, model number, and serial number of boilers/
engines, and generators:

Boiler: Babcock & Wilcox Series FH

Generator: Westinghouse S/N IS58P809

B. Indicate whether this unit operates on more than one type of fuel:

~~XXX~~ YES

C. Describe all fuel additives:

None

D. Where dual fuels may be burned, supply information for each fuel,
as requested in the application:

6 Fuel Oil

Natural Gas

E. Supply a vendors recent copy of the oil analysis which represents
type of oil currently in storage on the premises and ready for
combustion:

Oil Sheet Attached

Copy To KENT LAWSON Please.
cc 1-21-80

RECEIVED JAN 21 1980



TECHNICAL SERVICES, INC.

SOUTHERN ANALYTICAL LABORATORY DIVISION
ENVIRONMENTAL CONSULTANTS — INDUSTRIAL CHEMISTS
108 STOCKTON STREET — P.O. BOX 52329
JACKSONVILLE, FLORIDA 32201
(904) 353-5761



Laboratory No. 33761 JANUARY 17 19 80

Sample of Oil

Date Received January 11, 1980

For Ft. Pierce Utilities Authority, Henry D. King Electric Station,
P. O. Box 1298, Ft. Pierce, Fl 33450

Marks Oil from #7 Oil Hour Test 1-9-80

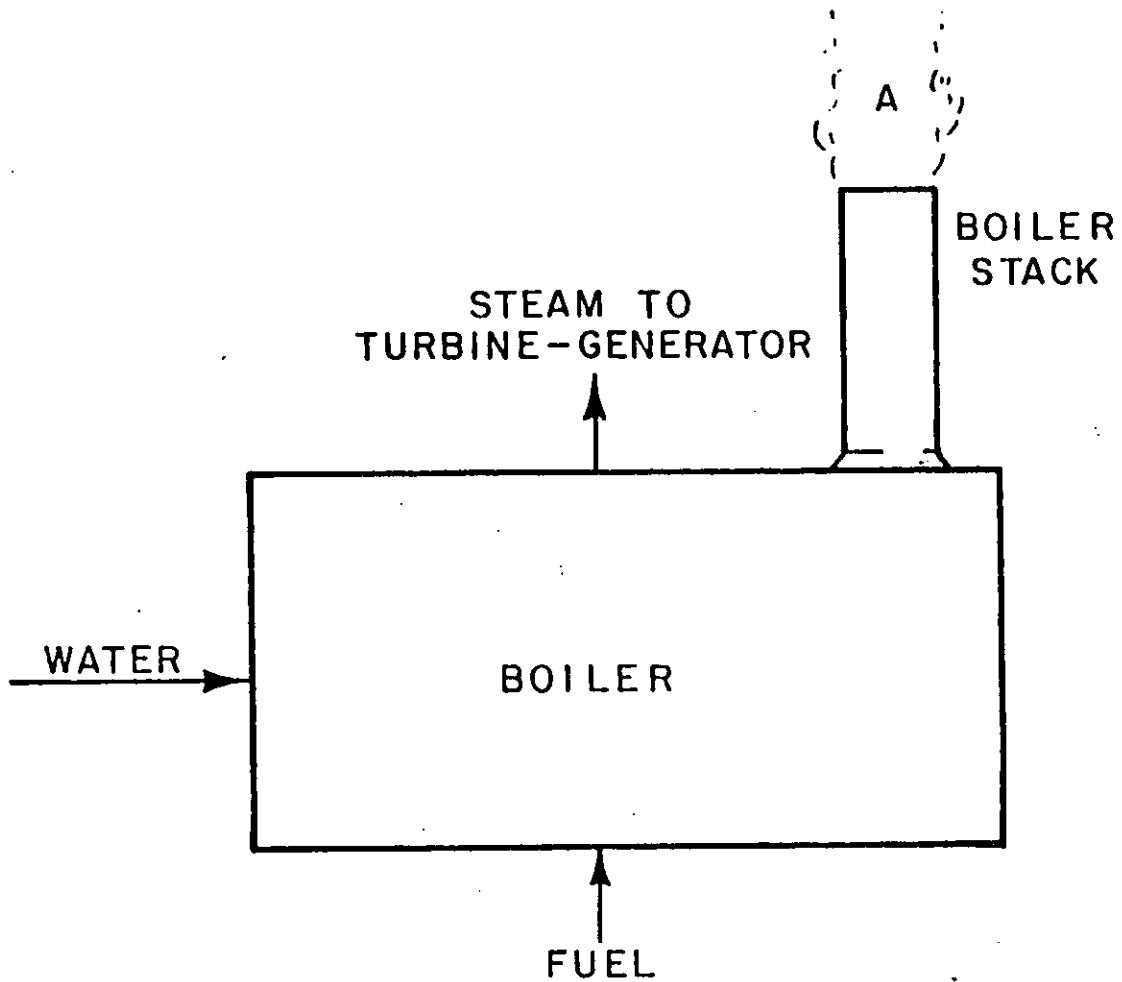
CERTIFICATE OF ANALYSIS OR TESTS (TYPICAL)

API Gravity @ 60°F	15.2
BTU/lb.	18,316
Sulfur	2.44%
Viscosity in Centistokes	598.4 Cst @ 122°F
Saybolt Furol Viscosity	282.4 Sec @ 122°F

Respectfully submitted,

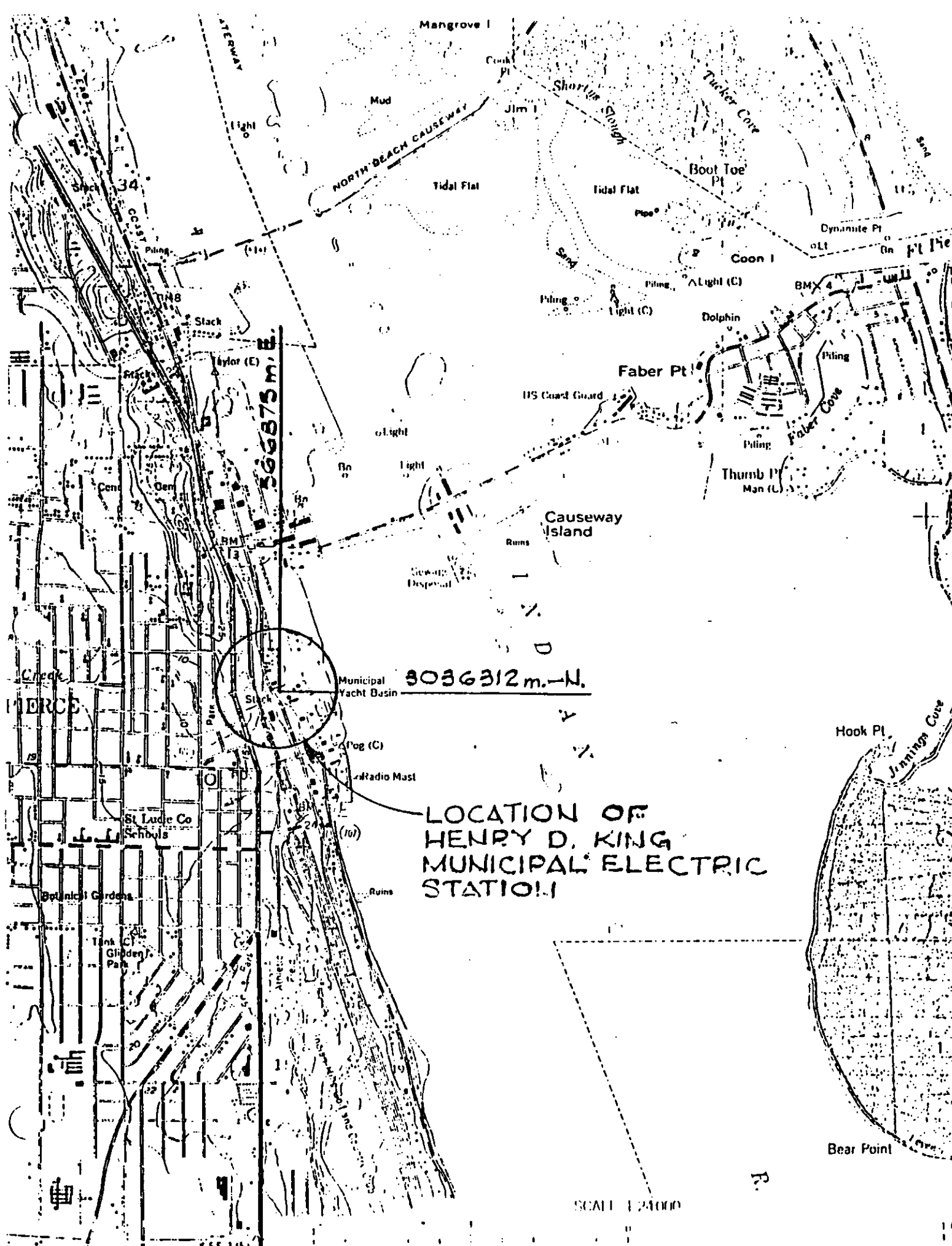
SOUTHERN ANALYTICAL LABORATORY

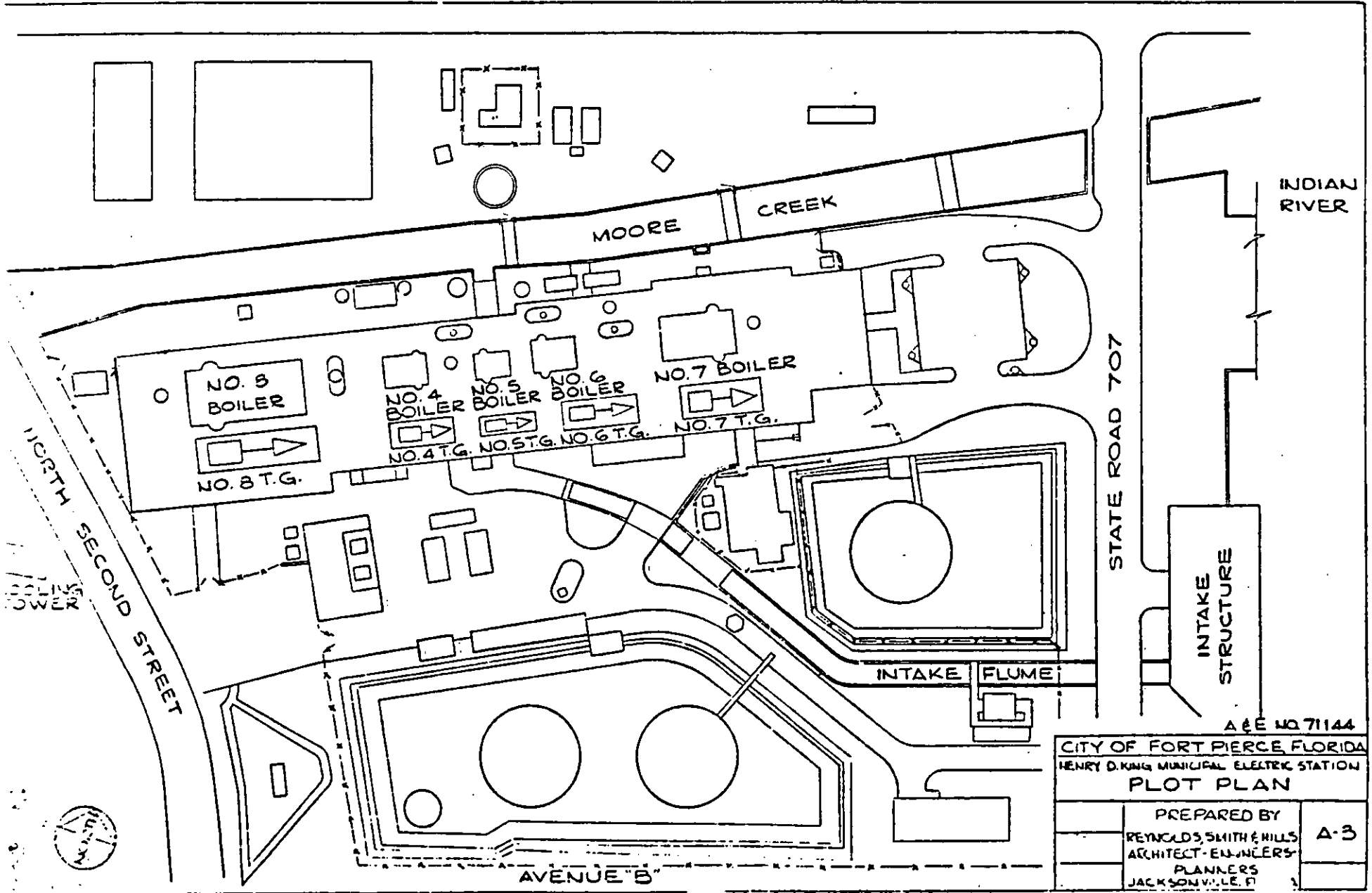
Henry C. Gray, Jr.



FLOW DIAGRAM NO. 6 BOILER

REYNOLDS, SMITH AND HILLS ARCHITECTS • ENGINEERS • PLANNERS INCORPORATED	Fort Pierce Utilities Authority Henry D. King Electric Generating Plant Fort Pierce, Florida	DRAWN RJK	SHEET A-6
		CHECKED JBG	
		DATE 9-10-80	FILE 71144-000





A & E NO 71144

CITY OF FORT PIERCE, FLORIDA
 HENRY D. KING MUNICIPAL ELECTRIC STATION
 PLOT PLAN

PREPARED BY		A-3
REYNOLDS, SMITH & HILLS		
ARCHITECT-ENGINEERS-		
PLANNERS		
JACKSONVILLE, FL.		

APPLICATION FOR POWER PLANT BOILER NO. 6

Corrected Page 4, Section III C, Columns 3, 4, 5

Attachment, Paragraph E calls for a No. 6 fuel oil analysis, not an analysis of diesel engine lubricating oil. If you have one, it should agree with the information on page 5, E.

ATTACHMENT 2

COMBINED CYCLE POWER PLANT

FOR

H. D. KING GENERATING STATION
FORT PIERCE, FLORIDA

Bidder to provide data as indicated.

Bidder: Metric Constructors, Inc

(Please insert all
data in this column)

COMBUSTION TURBINE UNIT

Manufacturer

General Electric

Type

Heavy Duty Gas Turbine

Model No.

PG 5371 (PA)

Base Load:

(ISO - Natural Gas)

26,300

KW

(ISO - Distillate Fuel)

25,800

KW

ISO
25,800 KW

GUARANTEED OPERATING CONDITIONS: #See Note

Base load and fuel consumption (base load as defined in Section 01004) when burning the specified fuel at ambient temperature of 90 F, sea level operation, exhausting through HRSG generating 87,000 lbs/hr of steam at 440 psig and 755 F, and 12,250 lbs/hr of steam at 450 psig and 579°F for injection to control NOx and provide additional power output.

a. Firing Natural Gas:

Base Load 23,410 # KW,

Fuel Consumption 285.8

106 Btu/lb
Btu/Kwh LHV

b. Firing #2 Distillate Oil:

Base Load 22,930 # KW,

Fuel Consumption 283.4

106 Btu/lb
Btu/Kwh LHV

Fuel flow and pressure to be available at turbine fuel terminals:

Natural gas:

6,600

SCFM @

275

PSIG

Distillate fuel:

50

GPM @

Flooded suction at fuel forwarding skid 5 PSIG

Provide the following performance curves; for by-pass operation and for exhaust through HRSG, as applicable:

a. Full load and part load performance based on ISO standard (59F at 14.7 PSIA), natural gas fuel and distillate fuel:

#Note: Only data marked "=" is guaranteed.