

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

October 17, 1984

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Royce Lyles
Managing Director
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Dear Mr. Lyles:

Enclosed are Permit Numbers AC 16-85951, AC 16-86189, and AC 16-86190, dated October 15, 1984, to Jacksonville Electric Authority, issued pursuant to Section 403, Florida Statutes.

Acceptance of these permits constitutes notice and agreement that the department will periodically review these permits for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Enclosure

cc: Richard Breitmoser, Jacksonville Electric Authority
Doug Dutton, DER Northeast District
Jerry E. Woosley, Duval County Dept. of Health, Welfare,
and Bio-Environmental Services

Final Determination

Jacksonville Electric Authority
Auxiliary Boiler, Northside Station
Duval County, Florida

Permit Number
AC 16-85951

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

October 11, 1984

Response to Public Comment
Northside Station, JEA
AC 16-85951

Jacksonville Electric Authority's application for a permit to construct an auxiliary boiler at the Northside Station in Duval County, Florida has been reviewed by the Bureau of Air Quality Management (BAQM). Public notice of the Department's Intent to Issue the construction permit was published in the Florida Times Union on July 23, 1984.

JEA filed a petition for administrative hearing and submitted comments on the proposed construction permit. Their comments and DER's responses are addressed as follows:

Comment 1

JEA disagrees with Specific Condition 2 which limits fuel oil to virgin oil burned in the proposed boiler. The company's proposed wording for the condition is: "No. 6 fuel oil shall be virgin oil plus less than 5% of internally generated waste oil from known mineral oil sources such as drained lubricating oil from the permittees operating units".

Response

This comment is accepted by DER.

Comment 2

JEA objects to Specific Condition 3 which limits the fuel sulfur content to less than 1.8 and requests the SO₂ emission limit to be 1.98 pounds per million Btu heat input.

Response

This comment is not accepted by DER. The wording "sulfur content to less than 1.8% sulfur" will be changed to "not to exceed 1.8% sulfur".

Comment 3

JEA objects to Specific Condition 5 which limits the visible emission to 15% opacity.

Response

This comment is not accepted by DER. The determination of the visible emissions limit of 15% opacity is based on actual field observation of steam generators of this size and firing No. 6 fuel oil.

Comment 4

JEA objects to Specific Condition 6 which requires fuel oil analysis reports for each oil delivery.

Response

This comment is not accepted by DER.

Comment 5

JEA objects to Specific Condition 9 which requires a "complete application for an operation permit" prior to 90 days before expiration of the existing permit.

Response

DER agrees to change the expiration date of the construction permit but will retain the condition.

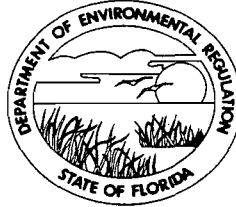
BESD's comments to the public notice is attached. Their comments are in agreement with DER's responses.

The final action by the department will be to issue the permit with the changes on Specific Conditions 2, 3, and 9 in the Final Determination.

31/16/00

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:

Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-85951

Expiration Date: July 31, 1985

County: Duval

Latitude/Longitude: 30° 25' 04" N/
81° 33' 09" W

Project: Oil/Gas Fired Auxiliary
Boiler, 120 MMBtu/hr

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:

For the construction of an oil (or L.P. gas in the future) fired auxiliary boiler at the JEA's Northside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:

1. Application to construct Air Pollution Sources, DER Form 17-1.122(16), received on April 20, 1984.
2. DER's incompleteness letter, dated May 14, 1984.
3. JEA's response to incompleteness letter, received on May 16, 1984.
4. A BACT determination made by DER.
5. BESD's comments to the public notice, received on August 31, 1984.
6. JEA's comments to the public notice, received on August 10, 1984.
7. Final Order, dated October 9, 1984, dismissing petition for administrative hearing.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-85951
Expiration Date: July 31, 1985

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-85951
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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
- 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.

PERMITTEE: Jacksonville Electric Authority
I. D. Number: Permit Number: AC 16-85951
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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:

- (x) Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-85951
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination (attachment 4) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
2. The proposed boiler shall be used only as an auxiliary unit and is allowed to fire new oil (No. 2 or No. 6), L.P. gas, or new oil blended with internally generated waste oil which does not contain any (zero percent) polychlorinated biphenyls (PCBs). Records of internally generated waste oil use shall be kept on an annual basis.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-85951
Expiration Date: July 31, 1985

SPECIFIC CONDITIONS:

3. The sulfur content of the new or blended oil burning in the proposed boiler shall not exceed 1.8 percent by weight as determined by ASTM Method D-219. The fuel analysis reports of blended oils shall be recorded for inspection.

4. The boiler shall be operational only when at least one of the three larger (+ 2000-E6 Btu/hr) steam generating units has been shut down or is in the start-up mode of operation prior to being put on line. Compliance shall be determined by requiring that when any of boilers NS#1, NS#2, and NS#3 are shut down, that it be recorded in the proposed boiler operating log. When electrical power demand requires all three main units to be on line, the total station residual fuel consumption will be recorded for each four hour period whenever the auxiliary steam generator is operating. The total station fuel consumption must not exceed 1,440,000 pounds in any consecutive three (3) hour period. The recorded fuel consumption data will be retained for at least two years.

5. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

6. The permittee shall submit all fuel oil analyses (every oil delivery needs a fuel analysis) with the required visible emissions test to DER's Northeast District and Jacksonville Bio-Environmental Services Division (BESD) annually.

7. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and the BESD office 14 days prior to source testing.

8. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.

9. A complete operation permit application with all compliance tests and data shall be submitted to the BESD office 90 days prior to expiration of the construction permit.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-85951
Expiration Date: July 31, 1985

SPECIFIC CONDITIONS:

Issued this 15th day of oct, 1984

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Terry Cole for
VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

Best Available Control Technology (BACT) Determination
Jacksonville Electric Authority
Duval County

The applicant plans to install an auxiliary fossil-fuel-fired steam generator at the Northside generating station. The proposed unit will have a design heat input of 116.5 million Btu/hr and fire residual or distillate oil. The primary function of this unit will be to supply inplant steam requirements, especially during the colder months of the year, and will not be used as a peaking unit.

The proposed auxiliary boiler will operate only when one or more of the larger steam generating units is down or in the startup mode, therefore there will be no additional increase in sulfur dioxide or particulate emissions to the atmosphere.

The boiler will be located within the area of influence of the Jacksonville particulate nonattainment area (Rule 17-2.410(2)2.).

BACT Determination Requested by the Applicant:

The particulate and sulfur dioxide emissions will be 0.1 and 1.98 pounds per million Btu of heat input, respectively. The proposed steam generator will operate only when one of the larger main units is down or in a startup mode.

Date of Receipt of a BACT application:

April 24, 1984

Date of Publication in the Florida Administrative Weekly:

May 4, 1984

Review Group Members:

The determination was based upon comments received from the New Source Review Section, Air Modeling Section and Jacksonville Division of Bio-Environmental Services.

BACT Determined by DER:

Particulate and sulfur dioxide emissions to be limited by the following two permit conditions:

1. This steam generating unit shall be used only as an auxiliary system and shall fire New [1] or New oil blended with internally generated waste oil [2], and having a sulfur content, by weight, not to exceed 1.8% as determined by ASTM method D-219.

2. The auxiliary steam generating unit shall be operational when one of the three larger (+ 2000-E6 Btu/hr) steam generating units has been shut down or in the start-up mode of operation prior to being put on line.

[1] The term "new" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

[2] Internally generated waste oil is defined as: 1) automotive waste oils consisting of crankcase drainage, transmission fluids, gear lubricants, hydraulic oils, and minor amounts of kerosene and other solvents used in servicing equipment and, 2) industrial waste oils used in metal working, lubrication of industrial equipment, hydraulic and circulating systems, diesel engines and turbine lubrication and, 3) waste oils which have been used in transformers and heat transfer equipment that does not contain any (zero percent) polychlorinated biphenyls (PCBs).

Compliance shall be determined by requiring that whenever a main steam generator is down, the inactive source, NS #1, NS #2, or NS #3, is to be recorded in the auxiliary steam generator operating log. When electrical power demand requires all three main units to be on line, the total station residual fuel consumption will be recorded for each four hour period whenever the auxiliary steam generator is operating. The total station fuel consumption must not exceed 1,440,000 pounds in any consecutive three (3) hour period. The recorded fuel consumption data will be retained for at least two years.

Visible Emissions

Not to exceed 15% opacity.
40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9, FAC) will be used to determine compliance with the opacity standard.

BACT Determination Rationale:

The applicant will shut down one of the larger +2000-E6 Btu/hr steam generators whenever the new 116.5-E6 unit is in operation or in startup mode. The new unit, therefore, would not increase particulate or sulfur dioxide emissions to the atmosphere. The applicant has proposed this scenario as BACT.

The applicant further contends that since the new boiler would only supply steam for inplant use, for example, to keep the generating station available for winter start-ups, this proposed BACT is reasonable.

The new boiler would:

- 1) operate below design capacity the majority of the time and only when one of the larger boilers is down or in start up mode
- 2) operate near design capacity primarily during the winter months, when electric power demand is low, and the main units are on standby
- 3) have installed state-of-the-art combustion controllers to minimize NO_x emissions, and
- 4) result in emissions considered minor as compared to the main units.

The department agrees that operation of the auxiliary boiler as per the proposed scenario is BACT. Particulate and sulfur dioxide emissions, when firing fuel oil, are related to the fuel sulfur content. Fuel oil containing less than 1.5% sulfur, by weight, is a SO₂ control option for a boiler of this size. The main units fire 1.8% sulfur content oil and the department does not believe a requirement for separate fuel oil storage for a lower sulfur content fuel is justified.

The fuel sulfur content was determined to be the BACT to control particulate matter and SO₂ emissions for the following reasons.

A. The cover letter attached to JEA's air permit application stated, "No. 6 fuel oil, less than 1.8% sulfur, is the only fuel presently available for boiler operation at the Northside station." (emphasis added). JEA has not submitted data indicating a higher sulfur content fuel will be fired.

B. The BACT economic review indicated that low sulfur fuel, as a method to control SO₂ emissions, was the cheaper alternative for a boiler of this size when compared to various wet or dry FGD systems.

C. Compliance with the permit conditions will require the taking of a spot fuel sample and the sulfur content determined by ASTM analysis Method D-219 at a cost of approximately \$50. The energy basis SO₂ standard requested by JEA would require a stack test. A normal test probe could not be used due to the low gas velocity in the stack (less than 10 FPS) and special stack testing procedures would have to be used. The cost would be much greater than a fuel sample analysis.

D. A fuel oil sample can be obtained quickly and easily. Compliance can be determined at any time without elaborate preparations and at a reasonable cost.

As mentioned in the overview, a BACT determination is required as set forth in Rule 17-2.600(6). Rule 17-2.100(23) requires a visible emission limit in all BACT determinations. Since the 15% opacity limit is more stringent than the 20% in Rule 17-2.600(6)(a), the more stringent limit applies.

The visible emissions limit of 15% opacity is based on actual field observation of steam generators of this size when firing No. 6 oil. JEA has not submitted any data indicating why the proposed steam generators could not meet the 15% opacity limit.

Air modeling indicates the proposed source, operating as per the scenario determined as BACT, will not impact the nonattainment area, therefore only a BACT determination is required for this source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emission Limiting and Performance Standards.

The "new" oil requirement disallows the use of waste oil which could contain sham blended RCRA compounds, or other non-fossil fuels, emissions from which were not considered in this BACT analysis.

Details of the Analysis may be Obtained by Contacting:

Edward Palagyi, BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:

CAA Janney

C. H. Fancy, Deputy Bureau Chief

Date: 10/15/84

Approved:

Terry Cole for

Victoria J. Tschinkel, Secretary

Date: 10/15/84

Final Determination

Jacksonville Electric Authority
Auxiliary Boiler, Kennedy Station
Duval County, Florida

Permit Number
AC 16-86189

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

October 11, 1984

Response to Public Comment
Kennedy Station, JEA
AC 16-86189

Jacksonville Electric Authority's application for a permit to construct an auxiliary boiler at the Kennedy Station in Duval County, Florida has been reviewed by the Bureau of Air Quality Management (BAQM). Public notice of the Department's Intent to Issue the construction permit was published in the Florida Times Union on July 25, 1984.

JEA filed a petition for administrative hearing and submitted comments on the proposed construction permit. Their comments and DER's responses are addressed as follows:

Comment 1

JEA objects to Specific Condition 3 which limits the visible emission to 15% opacity.

Response

This comment is not accepted by DER. The determination of the visible emissions limit of 15% opacity is based on actual field observation of steam generators of this size and firing No. 6 fuel oil.

Comment 2

JEA objects to Specific Condition 4 which requires fuel oil analysis reports for each oil delivery.

Response

This comment is not accepted by DER.

Comment 3

JEA objects to Specific Condition 8 which requires a "complete application for an operation permit" prior to 90 days before expiration of the existing permit.

Response

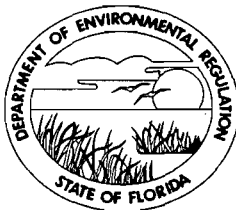
DER agrees to change the expiration date of the construction permit but will retain the condition.

The final action by the department will be to issue the permit with the changes on the expiration date in the Final Determination.

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DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:

Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-86189

Expiration Date: July 31, 1985

County: Duval

Latitude/Longitude: 30° 21' 53" N/
81° 37' 26" W

Project: Oil/Gas Fired Auxiliary
Boiler, 21 MMBtu/hr

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:

For the construction of a natural gas or oil fuel fired auxiliary boiler at the JEA's Kennedy Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:

1. Application to construct Air Pollution Sources, DER Form 17-1.122(16), received on April 23, 1984
2. A BACT determination made by DER.
3. JEA's comments to the public notice, received on August 10, 1984.
4. Final Order, dated October 9, 1984, dismissing petition for administrative hearing.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86189
Expiration Date: July 31, 1985

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86189
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86189
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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:

- (x) Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86189
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
2. The boiler is allowed to fire virgin No. 2 fuel oil or natural gas only. Natural gas will be primary fuel when available. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.
3. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86189
Expiration Date: July 31, 1985

SPECIFIC CONDITIONS:

4. The permittee shall submit all fuel oil analyses (every oil delivery needs a fuel analysis report) with the required visible emissions test to DER's Northeast District and Jacksonville Bio-Environmental Services Division (BESD) annually.
5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 14 days prior to source testing.
6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.
7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.
8. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the BESD office. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration of this permit or receipt of an operating permit.

Issued this 15 day of Oct., 1984

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Terry Cole for
VICTORIA J. TSCHINKEL, Secretary

_____ pages attached.

Final Determination

Jacksonville Electric Authority
Auxiliary Boiler, Southside Station
Duval County, Florida

Permit Number
AC 16-86190

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

October 11, 1984

Response to Public Comment
Southside Station, JEA
AC 16-86190

Jacksonville Electric Authority's application for a permit to construct an auxiliary boiler at the Southside Station in Duval County, Florida has been reviewed by the Bureau of Air Quality Management (BAQM). Public notice of the Department's Intent to Issue the construction permit was published in the Florida Times Union on July 25, 1984.

JEA filed a petition for administrative hearing and submitted comments on the proposed construction permit. Their comments and DER's responses are addressed as follows:

Comment 1

JEA objects to Specific Condition 3 which limits the visible emission to 15% opacity.

Response

This comment is not accepted by DER. The determination of the visible emissions limit of 15% opacity is based on actual field observation of steam generators of this size and firing No. 6 fuel oil.

Comment 2

JEA objects to Specific Condition 4 which requires fuel oil analysis reports for each oil delivery.

Response

This comment is not accepted by DER.

Comment 3

JEA objects to Specific Condition 8 which requires a "complete application for an operation permit" prior to 90 days before expiration of the existing permit.

Response

DER agrees to change the expiration date of the construction permit but will retain the condition.

The final action by the department will be to issue the permit with the changes on the expiration date in the Final Determination.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE: Permit Number: AC 16-86190
Jacksonville Electric Authority Expiration Date: July 31, 1985
233 West Duval Street County: Duval
Jacksonville, Florida 32202 Latitude/Longitude: 30° 21' 53" N/
81° 37' 26" W
Project: Oil/Gas Fired Auxiliary
Boiler, 21 MMBtu/hr

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:

For the construction of an oil (or natural gas) fired auxiliary boiler at the JEA's Southside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:

1. Application to contract Air Pollution Sources, DER Form 17-1.122(16), received on April 23, 1984
2. A BACT determination made by DER.
3. JEA's comments to the public notice, received on August 10, 1984.
4. Final Order, dated October 9, 1984, dismissing petition for administrative hearing.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86190
Expiration Date: July 31, 1985

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86190
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86190
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

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)
- 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.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86190
Expiration Date: July 31, 1985

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
2. The boiler is allowed to fire virgin No. 2 fuel oil or natural gas only with natural gas as the primary fuel. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.
3. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

PERMITTEE:
Jacksonville Electric Authority

I. D. Number:
Permit Number: AC 16-86190
Expiration Date: July 31, 1985

SPECIFIC CONDITIONS:

4. The permittee shall submit all fuel oil analyses (every oil delivery needs a fuel analysis report) with the required visible emissions test to DER's Northeast District and Jacksonville Bio-Environmental Services Division (BESD) annually.
5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 14 days prior to source testing.
6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.
7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.
8. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the BESD office. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration of this permit or receipt of an operating permit.

Issued this 15 day of Oct, 1984

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Terry Cole for
VICTORIA J. TSCHINKEL, Secretary

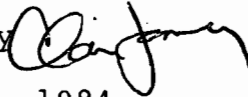
 pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee			
To: _____	Loctn.: _____		
To: _____	Loctn.: _____		
To: _____	Loctn.: _____		
From: _____	Date: _____		
Reply Optional []	Reply Required []	Info. Only []	
Date Due: _____	Date Due: _____		

DER
OCT 16 1984
BAQM

TO: Victoria J. Tschinkel
FROM: Clair Fancy 
DATE: October 11, 1984
SUBJ: Approval of Attached Air Construction Permits
and BACT Determinations

Attached for your approval and signature are three Air Construction Permits and two BACT Determinations for Jacksonville Electric Authority. The permits are for the construction of auxiliary boilers at JEA's Northside, Southside, and Kennedy generating stations in Duval County, Florida.

JEA filed a petition for an administrative hearing on July 30, 1984, and later withdrew the request. The final order dismissing the petition for hearing is attached.

The Bureau recommends your approval and signature.

CF/pa

Attachments

BACT Determined by DER:

The amount of particulate and sulfur dioxide emissions emitted from this source are to be controlled by the firing of natural gas or No. 2 new (1) distillate oil having a sulfur content not to exceed 0.50 percent.

Visible Emissions Not to exceed 15% opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9. FAC) will be used to determine compliance.

(1) The term "new" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

BACT Determination Rationale:

Sulfur in fuel oil is a primary air pollution concern, in that most of the fuel sulfur becomes SO₂. The emission factors for SO₂ and particulate emissions from oil burning are related to the sulfur content. The department agrees with the applicant's proposal that the firing of No. 2 distillate oil, containing less than 0.5% sulfur or natural gas is BACT for the two auxiliary boilers.

The term "new oil" disallows the use of re-refined or waste oil or any non-fossil fuels, emissions from which were not considered in this BACT analysis.

Details of the Analysis May be Obtained by Contacting:

Edward Palagyi, BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:

CHA Fancy
C. H. Fancy, Deputy Bureau Chief

10/15/84
Date

Approved:

Terry Cole for
Victoria J. Tschinkel, Secretary

10/15/84
Date

Best Available Control Technology (BACT) Determination
Jacksonville Electric Authority (JEA)
Duval County

The JEA plans to install one auxiliary boiler at their Southside generating station and one auxiliary boiler at their Kennedy generating station. Both units will be fossil-fuel-fired and have a design heat input of 20 million Btu/hour. The fuel will be natural gas or No. 2 distillate oil.

JEA is currently modifying the local electrical in-town distribution network and anticipate that the existing stabilizing generator located at the two generating stations will be placed on cold standby. The auxiliary boilers will be used to supply the station steam requirements to allow the stabilizing generators to respond to above normal network power demands.

Both boilers will be located within the area of influence of the Jacksonville particulate nonattainment area (Rule 17-2.410(2)2.).

Particulate emissions are nil when firing natural gas and less than one pound per hour when firing distillate fuel oil. The amount of particulate emissions will not have a significant impact within the nonattainment area, and therefore the two sources are exempt from Rule 17-2.510 New Source Review for Nonattainment Areas. Each source will be subject to a BACT determination as set forth in Rule 17-2.600(6) - Emission Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Pollutant	Emission Limit
Particulates	0.3 lb/hr maximum
SO ₂	10.5 lb/hr maximum
NOx	3.0 lb/hr maximum

Date of Receipt of a BACT application:

May 14, 1984

Date of Publication in the Florida Administrative Weekly:

June 1, 1984

Review Group Members:

The determination was based upon comments received from the New Source Review Section and Jacksonville Division of Bio-Environmental Services.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

JACKSONVILLE ELECTRIC AUTHORITY,)
)
 Petitioner,)
)
 vs.) DOAH Case No. 84-2895
) OGC File No. 84-0575
 STATE OF FLORIDA DEPARTMENT OF)
 ENVIRONMENTAL REGULATION,)
 Respondent.)
)
)

FINAL ORDER

By letter dated September 20, 1984, submitted to the Division of Administrative Hearings, Petitioner voluntarily dismissed its petition for administrative hearing. On September 25, 1984, the duly appointed Hearing Officer in the above-styled matter completed and submitted to the Department and all parties an Order Closing File which the Department considers to be a Recommended Order. A copy of that Order is attached hereto as Exhibit "A".

Pursuant to Rule 17-1.68(1), Florida Administrative Code, and Section 120.57(1)(b)8., Florida Statutes, the parties were allowed ten (10) days in which to submit written exceptions to the Recommended Order. Neither Petitioner nor Respondent submitted exceptions. The Order thereafter came before me as the head of the Department for final agency action on this matter. Having considered the Order submitted herein and being otherwise fully advised, it is therefore:

ORDERED that the Hearing Officer's Order is hereby adopted in toto and this matter is hereby dismissed. This Order constitutes final action of the agency.

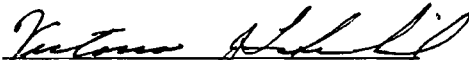
DONE AND ORDERED this 9 day of October, 1984.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Siane M. Wilson 10/9/84
Clerk Date


VICTORIA J. TSCHINKEL
Secretary
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301
(904) 488-4805

STATE OF FLORIDA
DIVISION OF ADMINISTRATIVE HEARINGS

RECEIVED

SEP 27 1984

Dept. of Environmental Regulation
Office of General Counsel

JACKSONVILLE ELECTRIC)
AUTHORITY,)
)
Petitioner,)
)
v.)
)
STATE OF FLORIDA, DEPARTMENT)
OF ENVIRONMENTAL REGULATION,)
)
Respondent.)

CASE NO. 84-2895

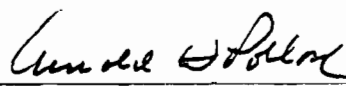
ORDER CLOSING FILE

Petitioner, Jacksonville Electric Authority, by
letter dated September 20, 1984, having withdrawn its petition
for formal hearing herein, it is, therefore:

ORDERED that:

The Division of Administrative Hearings file on this
case be, and it is, hereby CLOSED.

DONE and ORDERED in Tallahassee, Florida, this 25th
day of September, 1984.


ARNOLD H. POLLOCK
Hearing Officer
Division of Administrative Hearings
The Oakland Building
2009 Apalachee Parkway
Tallahassee, Florida 32301
(904) 488-9675

Copies furnished to:
Carol A. Forthman, Esquire
2600 Blair Stone Road
Tallahassee, Florida 32301

Filed with the Clerk of the
Division of Administrative Hearings
this 25th day of September, 1984.

Richard Breitmoser, P.E.
Division Chief
Research & Environmental
Affairs Division
213 West Duval Street
Jacksonville, Florida 32201

G. Doug Dutton, District Manager
Florida Department of
Environmental Regulation
3426 Bills Road
Jacksonville, Florida 32202

CERTIFICATE OF SERVICE

I HEREBY certify that two true copies of the foregoing FINAL ORDER have been furnished by United States Mail to Arnold H. Pollock, Hearing Officer, Division of Administrative Hearings, 2009 Apalachee Parkway, Tallahassee, Florida 32301; and a true copy of the same to Richard Breitmoser, P.E., Division Chief, Research & Environmental Affairs Division, 213 West Duval Street, Jacksonville, Florida 32201 on this 10th day of October, 1984.


CAROL A. FORTHMAN
Assistant General Counsel

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301
(904) 488-9730

No. **0157021**
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO	
Mr. Royce Lyles	
STREET AND NO.	
P.O., STATE AND ZIP CODE	
STAGE	\$
CERTIFIED FEE	¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
OPTIONAL SERVICES	
RETURN RECEIPT SERVICE	
SHOW TO WHOM AND DATE DELIVERED	¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	
10/19/84	

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1978

● **SENDER:** Complete items 1, 2, and 3.
 Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)

Show to whom and date delivered..... ¢

Show to whom, date and address of delivery..... ¢

RESTRICTED DELIVERY
 Show to whom and date delivered..... ¢

RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery. \$ _____

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:

Mr. Royce Lyles
 233 W. Duval Street
 Jacksonville, Florida 32202

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	0157021	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE Addressee Authorized agent

Bauri Harris

4. DATE OF DELIVERY **POSTMARK**

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: **CLERK'S INITIALS**

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

P 408 533 626

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
2. Restricted Delivery.

3. Article Addressed to:
Mr. Royce Lyles
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, FL 32202

4. Type of Service: Article Number
 Registered Insured
 Certified COD P 408 533 626
 Express Mail

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
X *Laurie Harris*

6. Signature - Agent
X

7. Date of Delivery
10-15-85 EA4

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

PS Form 3800, Feb. 1982

Sent to	
Mr. Royce Lyles Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	
10/11/85	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

October 10, 1985

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Royce Lyles
Managing Director
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Dear Mr. Lyles:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit to construct two (2) temporary boilers at your existing Southside facility in Jacksonville, Duval County.

Before final action can be taken on your draft permit, you are required by Florida Administrative Code Rule 17-103.150 to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Duval County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. Failure to publish the notice may be grounds for denial of the permit.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

C. H. Fancy
for C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Attachments

cc: Richard Breitmoser, JEA
Johnny Cole, NE District
Jerry Woosley, BES

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Jacksonville Electric Authority to construct oil/gas fired temporary auxiliary boilers "A" and "B" at their southside station located at 801 Colorado Drive in Jacksonville, Duval County, Florida. A determination of best available control technology (BACT) was required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation
Northeast District
3426 Bills Road
Jacksonville, FL 32207

Duval County Dept. of
Health, Welfare, & Bio-
Environmental Services
515 West 6th Street
Jacksonville, FL 32206

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days of the publication of this notice will be considered in the department's final determination.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an)
Application for Permit by:)
)
Jacksonville Electric Authority) DER File No. AC 16-108824
233 West Duval Street) AC 16-109082
Jacksonville, Florida 32202)

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue, and proposed order of issuance for, permits pursuant to Chapter 403, Florida Statutes, for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Jacksonville Electric Authority, applied on August 26, 1985, to the Department of Environmental Regulation for permits to construct an oil/gas fired temporary auxiliary boilers "A" and "B" at JEA's Southside Station, 801 Colorado Avenue, Jacksonville, Duval County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The applicant was officially notified by the Department that an air construction permit was required for the proposed work.

This intent to issue shall be placed before the Secretary for final action unless an appropriate petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes, is filed within fourteen (14) days from receipt of this letter or

publication of the public notice (copy attached) required pursuant to Rule 17-103.150, Florida Administrative Code, whichever occurs first. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code (copy attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301.

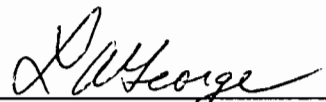
Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department. In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have an opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witnesses and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel. If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition, may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207 at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of

Administrative Hearings, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

Executed the 10th day of October, 1985, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

for 
C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Copies furnished to:

Mr. Royce Lyles
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Mr. Khurshid K. Mehta, P.E.
Duval County Dept. of Health,
Welfare & Bio-Env. Services
515 West 6th Street
Jacksonville, Florida 32206-4397

Mr. Richard Breitmoser, P.E.
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

CERTIFICATION

This is to certify that the foregoing Intent to Issue and all copies were mailed before the close of business on Oct. 11, 1985.

C. H. Fancy
for C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management
2600 Blair Stone Road
Tallahassee, Florida 32301

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby acknow-
ledged.

Patricia K. Adams Oct. 11, 1985
Clerk Date

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

Preliminary Determination
and
Technical Evaluation

Jacksonville Electric Authority
Temporary Auxiliary Boilers "A" and "B", Southside Station
Duval County, Florida

Permit Number
AC 16-108824
AC 16-109082

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

October 10, 1985

I. Applicant and Source Location

A. Applicant

Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

B. Source Location

The proposed construction of temporary auxiliary boilers "A" and "B" will occur at the JEA's Southside Station located at 801 Colorado Avenue, Jacksonville, Florida. The UTM coordinates are: Zone 17-437.6 km east and 3353.8 km north.

II. Project Description

JEA proposes to construct oil/gas fired temporary auxiliary boilers "A" and "B" with a combined heat input of 12.2 million Btu per hour (6.1 MMBtu separately). These boilers will operate in such manner as to provide steam to facilitate clean start-up of main power boiler(s) on demand. Such on demand start-up of the main boilers will allow them to be on cold shut-down while only the temporary auxiliary boilers remain fired. In as much there is not expected to be an increase in emissions from this facility.

III. Emissions and Controls

No. 2 fuel oil or natural gas (primary fuel) will be fired at the proposed boiler. The maximum sulfur content of the No. 2 fuel oil is 0.5 percent. The maximum possible emissions from the boiler are listed as follows:

<u>Pollutant</u>	<u>lb/hr</u>	<u>T/yr</u>
Sulfur Dioxide, SO ₂	3.2	14
Particulate Matter, PM	0.9	3.9
Nitrogen Oxides, NO _x	0.6	2.7

IV. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (FAC).

The existing facility, at which a new auxiliary boiler will be added, is a major facility located in a nonattainment area for ozone and an attainment area for other pollutants. This facility is within the area of influence of Jacksonville particulate nonattainment area. Since the temporary auxiliary boilers will

operate only in lieu of main units, it will not increase total emissions from the facility. Therefore, the source will not be subject to the Rule 17-2.500 and Rule 17-2.510. The proposed source shall be permitted in accordance with FAC Rule 17-2.600(6), Fossil Fuel Steam Generators with less than 250 million Btu per hour heat input. The rule requires a BACT determination for particulate matter and sulfur dioxide.

V. Control Technology Review

No add on air emission control equipment has been proposed by the applicant for this source. The applicant proposes to use No. 2 fuel oil or natural gas as fuel for air pollution control. The BACT determination made by the department is in agreement with JEA's proposal to control PM and SO₂ emissions from the subject source.

VI. Conclusion

Based on an evaluation of the application, the department believes that compliance with related state air regulations will be achieved provided certain specific conditions are met, as set forth in the attached draft state permits.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-108824
Expiration Date: September 30, 1986
County: Duval
Latitude/Longitude: 30° 18' 57" N/
81° 38' 56" W
Project: Oil/Gas Fired Temporary
Auxiliary Boiler A,
6.1 MMBtu/hr

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:

For the construction of an oil (or natural gas) temporary auxiliary boiler "A" at the JEA's Southside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:

1. Application to construct Air Pollution Sources, DER Form 17-1.122(16), received on August 26, 1985.
2. A BACT determination made by DER.
3. C. H. Fancy's Letter (DER), dated September 4, 1985
4. Richard Breitmoser's letter (JEA), received September 5, 1985

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: September 30, 1986

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

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)
- 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.

PERMITTEE: Jacksonville Electric Authority Permit Number: AC 16-108824
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

- 1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
- 2. The boiler is allowed to fire virgin No. 2 fuel oil or natural gas only with natural gas as the primary fuel. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.
- 3. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: September 30, 1986

SPECIFIC CONDITIONS:

4. The permittee shall submit all fuel oil analyses (every oil delivery needs a fuel analysis report) with the required visible emissions test to DER's Northeast District and Jacksonville Bio-Environmental Services Division (BESD) annually.
5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 14 days prior to source testing.
6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.
7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.
8. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the BESD office. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration of this permit or receipt of an operating permit.

Issued this ___ day of _____, 1985

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE: Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-109082
Expiration Date: September 30, 1986
County: Duval
Latitude/Longitude: 30- 18' 57" N/
81- 38' 56" W
Project: Oil/Gas Fired Temporary
Auxiliary Boiler B,
6.1 MMBtu/hr

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:

For the construction of an oil (or natural gas) temporary auxiliary boiler "B" at the JEA's Southside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5 and 6, Specific Conditions.

Attachments:

1. Application to construct Air Pollution Sources, DER Form 17-1.122(16), received on August 26, 1985.
2. A BACT determination made by DER.
3. C. H. Fancy's Letter (DER), dated 4 September, 1985
4. Richard Breitmoser's letter (JEA), received 5 September, 1985

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: September 30, 1986

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

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)
- 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.

PERMITTEE: Jacksonville Electric Authority Permit Number: AC 16-10 082
Expiration Date: September 30, 1986

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.

2. The boiler is allowed to fire virgin No. 2 fuel oil or natural gas only with natural gas as the primary fuel. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.

3. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: September 30, 1986

SPECIFIC CONDITIONS:

4. The permittee shall submit all fuel oil analyses (every oil delivery needs a fuel analysis report) with the required visible emissions test to DER's Northeast District and Jacksonville Bio-Environmental Services Division (BESD) annually.
5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 14 days prior to source testing.
6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.
7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.
8. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the BESD office. Full operation of the source may then be conducted in compliance with the terms of this permit until expiration of this permit or receipt of an operating permit.

Issued this ___ day of _____, 1985

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

Best Available Control Technology (BACT) Determination
Jacksonville Electric Authority
Duval County

The applicant plans to install two (2) 6.1 MM Btu/hr auxillary boilers at their facility in Jacksonville, Florida. The boilers will fire primarily natural gas and use No. 2 fuel oil on a secondary basis. These truck mounted boilers will be used temporarily until a permanent boiler can be installed (Constrution Permit No. AC 86190.)

A BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emissions Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Particulate and sulfur dioxide emissions to be controlled by firing of natural gas and low sulfur content distillate fuel oil.

Date of Receipt of a BACT application:

August 26, 1985

Date of Publication in the Florida Administrative Weekly:

September 20, 1985

Review of Group Members:

The determination was based upon comments received from the Stationary Source Control Section and the Northeast District.

Review Determined by DER:

The amount of particulate and sulfur dioxide emissions from the new boilers will be limited by the firing of new^[1] No.2 distillate oil having a sulfur content not to exceed 0.5 percent, by weight:

Visible Emissions

Not to exceed 15 percent opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9, FAC) will be used to determine compliance with the opacity standard.

[1] The term "new" means an oil which has been refined from crude oil and has not been used.

BACT Determination Rationale:

Sulfur in fuel oil is a primary air pollution concern, in that most of the fuel sulfur becomes SO₂ and particulate emissions from oil burning are related to the sulfur content. The department agrees with the applicant's proposal that the firing of natural gas and No.2 distillate oil containing 0.5 percent or less sulfur by weight is BACT for the 6.1 MM Btu/hr boilers.

The term "new oil" disallows the use of re-refined and waste oils, or any non-fossil fuels which were not considered in this BACT analysis.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:



C. H. Fancy, P.E., Deputy Bureau Chief

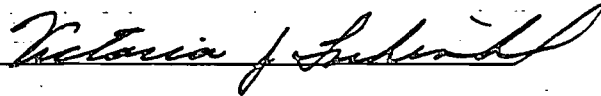
Date:

9-13-85

Approved:

September 16, 1985
Victoria J. Tschinkel, Secretary

Date:



Check Sheet

Company Name: JACKSONVILLE ELECTRIC AUTHORITY
Permit Number: AC 10-108824, -109082
PSD Number: _____
Permit Engineer: _____

Application:

- Initial Application
- Incompleteness Letters
- Responses
- Waiver of Department Action
- Department Response
- Other

Cross References:

-
-
-

Intent:

- Intent to Issue
- Notice of Intent to Issue
- Technical Evaluation
- BACT Determination
- Unsigned Permit

Correspondence with:

- EPA
- Park Services
- Other

- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Waiver of Department Action
- Other

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

- Extensions/Amendments/Modifications
- Other

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.
 2. Restricted Delivery.

3. Article Addressed to:
 Mr. Royce Lyles
 Jacksonville Electric Auth.
 233 West Duval Street
 Jacksonville, FL 32202

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 408 533 659

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *L. Harris*

7. Date of Delivery
1/16/86

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

P 408 533 659

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL

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Sent to Mr. Royce Lyles	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 1/16/86	

PS Form 3800, Feb. 1982

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. Royce Lyles
Managing Director
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

January 15, 1986

Enclosed are Permit Numbers AC 16-108824 and AC 16-109082 to Jacksonville Electric Authority which authorize the construction of two temporary boilers at the applicant's Southside facility in Jacksonville, Duval County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any Party to these permits has the right to seek judicial review of the permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date these permits are filed with the clerk of the Department.

Sincerely,

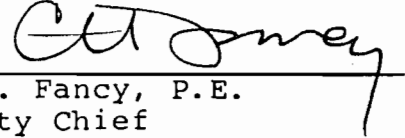
C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Enclosure

cc: Richard Breitmoser, JEA
Johnny Cole, NE District
Jerry Woosley, BES

CERTIFICATION

This is to certify that the foregoing Notice of Permit and all copies requested were mailed before the close of business on 16 January, 1986.



C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management
2600 Blair Stone Road
Tallahassee, Florida 32301

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Patricia B. Adams
Clerk

Jan. 16, 1986
Date

Final Determination

Jacksonville Electric Authority
Jacksonville, Florida
Duval County

Permit Number:
AC 16-108824
AC 16-109082

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

January 3, 1986

Final Determination

Jacksonville Electric Authority's application for permits to construct temporary auxiliary boilers A & B at their existing Southside facility in Duval County, Florida, has been reviewed by the Central Air Permitting Staff under the Bureau of Air Quality Management.

Public Notice of the department's Intent to Issue the construction permit was published in the Florida Times Union on October 23, 1985.

Final action of the department is based on review and comment of the interested public and affected interests. Copies of the Preliminary Determination have been available for public inspection at three locations: DER's Bureau of Air Quality Management in Tallahassee, DER's Northeast District office in Jacksonville, and the city of Jacksonville Bio-Environmental Services Division. Comments were received from the city of Jacksonville BESD (see attached).

Comments received from the city of Jacksonville (BESD) will be incorporated into the issued permit.

Attachments:

1. Proof of Publication - Public Notice
2. Comment letter: City of Jacksonville (BESD) - Dated October 29, 1985.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE: Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-108824
Expiration Date: December 31, 1986
County: Duval
Latitude/Longitude: 30° 18' 57" N/
81° 38' 56" W
Project: Oil/Gas Fired Temporary
Auxiliary Boiler A,
6.1 MMBtu/hr

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:

For the construction of an oil (or natural gas) fired temporary auxiliary boiler "A" at the JEA's Southside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5-7, Specific Conditions.

Attachments:

1. Application to construct Air Pollution Sources, DER Form 17-1.122(16), received on August 26, 1985.
2. A BACT determination made by DER.
3. C. H. Fancy's Letter (DER), dated September 4, 1985.
4. Richard Breitmoser's letter (JEA), received September 5, 1985.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

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:

- (x) Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
2. The boiler is allowed to fire virgin No. 2 (new) fuel oil (fraction of which has been processed or refined more than once, and no fraction of which has previously been used in any application) or natural gas only with natural gas as the primary fuel. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.
3. Fuel oil analysis (% sulfur by weight) shall be performed in accordance with ASTM Method D2622-82 "Sulphur in Petroleum Products"

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

SPECIFIC CONDITIONS:

(X-RAY Spectrographic Method) or other applicable ASTM Method. The permittee shall submit all fuel oil analyses (every oil delivery requires a fuel analysis report) with the required visible emissions report to FDER's Northeast District office and that of the Jacksonville Bio-Environmental Services Division (BESD) annually.

4. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 15 days prior to source testing.

6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.

8. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-4.09, FAC)

9. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rules 17-4.22 and 17-4.23, FAC)

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-108824
Expiration Date: December 31, 1986

SPECIFIC CONDITIONS:

10. If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4.10, FAC)

Issued this 9 day of January, 1986

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

_____ pages attached

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Jacksonville Electric Authority
233 West Duval Street
Jacksonville, Florida 32202

Permit Number: AC 16-109082
Expiration Date: December 31, 1986
County: Duval
Latitude/Longitude: 30° 18' 57" N/
81° 38' 56" W
Project: Oil/Gas Fired Temporary
Auxiliary Boiler B,
6.1 MMBtu/hr

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:

For the construction of an oil (or natural gas) fired temporary auxiliary boiler "B" at the JEA's Southside Station located in Jacksonville, Florida.

Construction shall be in accordance with the attached permit application except as otherwise noted on pages 5-7, Specific Conditions.

Attachments:

1. Application to contract Air Pollution Sources, DER Form 17-1.122(16), received on August 26, 1985.
2. A BACT determination made by DER.
3. C. H. Fancy's Letter (DER), dated 4 September, 1985.
4. Richard Breitmoser's letter (JEA), received 5 September, 1985.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: December 31, 1986

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 therefore 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

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
- 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.

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

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:

- (x) Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () 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.

PERMITTEE: Jacksonville Electric Authority Permit Number: AC 16-109082
Expiration Date: December 31, 1986

GENERAL CONDITIONS:

- 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.

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination, (attachment 2) and these specific conditions, the proposed boiler construction shall be carried out in accordance with the statements in the application submitted by the permittee.
2. The boiler is allowed to fire virgin No. 2 (new) fuel oil (no fraction of which has been processed or refined more than once, and no fraction of which has previously been used in any application) or natural gas only with natural gas as the primary fuel. The sulfur content of the No. 2 fuel oil is limited to 0.5 percent by weight.
3. Fuel oil analysis (% sulfur by weight) shall be performed in accordance with ASTM Method D2622-82 "Sulphur in Petroleum Products"

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: December 31, 1986

SPECIFIC CONDITIONS:

(X-RAY Spectrographic Method) or other applicable ASTM Method. The permittee shall submit all fuel analysis (every oil delivery requires a fuel analysis report) with the required visible emissions report to FDER's Northeast District office and that of the Jacksonville Bio-Environmental Services Division (BESD) annually.

4. The visible emissions from the proposed boiler shall not be greater than 15% opacity with up to 40% opacity allowed for not more than two minutes in any one hour. DER Method 9 (17-2.700(6)(a)9, FAC) shall be used for the performance test conducted by the permittee.

5. The test of visible emissions shall be accomplished at 90% to 100% of the design capacity. The permittee shall notify DER's Northeast District and BESD 14 days prior to source testing.

6. The boiler is allowed to operate only when at least one of the main station units at the facility is under stand-by condition.

7. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads and the construction area, shall be taken by the permittee.

8. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new schedule and request for an extension of the construction permit. (Rule 17-4.09, FAC)

9. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance test results and Certificate of Completion, to the Department's District office 90 days prior to the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate. (Rules 17-4.22 and 17-4.23, FAC)

PERMITTEE:
Jacksonville Electric Authority

Permit Number: AC 16-109082
Expiration Date: December 31, 1986

SPECIFIC CONDITIONS:

10. If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct which can take up to 90 days to process a complete application. (Rule 17-4.10, FAC)

Issued this 9 day of January, 1986

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

Best Available Control Technology (BACT) Determination
Jacksonville Electric Authority
Duval County

The applicant plans to install two (2) 6.1 MM Btu/hr auxillary boilers at their facility in Jacksonville, Florida. The boilers will fire primarily natural gas and use No. 2 fuel oil on a secondary basis. These truck mounted boilers will be used temporarily until a permanent boiler can be installed (Constrution Permit No. AC 86190.)

A BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emissions Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Particulate and sulfur dioxide emissions to be controlled by firing of natural gas and low sulfur content distillate fuel oil.

Date of Receipt of a BACT application:

August 26, 1985

Date of Publication in the Florida Administrative Weekly:

September 20, 1985

Review of Group Members:

The determination was based upon comments received from the Stationary Source Control Section and the Northeast District.

Review Determined by DER:

The amount of particulate and sulfur dioxide emissions from the new boilers will be limited by the firing of new [1] No.2 distillate oil having a sulfur content not to exceed 0.5 percent, by weight.

Visible Emissions

Not to exceed 15 percent opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9, FAC) will be used to determine compliance with the opacity standard.

[1] The term "new" means an oil which has been refined from crude oil and has not been used.

BACT Determination Rationale:

Sulfur in fuel oil is a primary air pollution concern, in that most of the fuel sulfur becomes SO₂ and particulate emissions from oil burning are related to the sulfur content. The department agrees with the applicant's proposal that the firing of natural gas and No.2 distillate oil containing 0.5 percent or less sulfur by weight is BACT for the 6.1 MM Btu/hr boilers.

The term "new oil" disallows the use of re-refined and waste oils, or any non-fossil fuels which were not considered in this BACT analysis.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:



C. H. Fancy, P.E., Deputy Bureau Chief

Date: 9-13-85

Approved:

September 16, 1985
Victoria J. Tschinkel, Secretary

Date: Victoria J. Tschinkel

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

DER

FOR ROUTING TO OTHER THAN THE ADDRESSEE

To: _____ LOCTN: _____ JAN 13 1986

To: _____

To: _____

FROM: _____ DATE: _____

REC'D BY BAQM

TO: Victoria J. Tschinkel

FROM: Clair Fancy *Clair Fancy*

DATE: January 8, 1986

SUBJ: Approval of Attached Air Construction Permits

JAN 8 1986

Office of the Secretary

Attached for your approval and signature are two Air Construction Permits to Jacksonville Electric Authority to construct two temporary auxiliary boilers at the applicant's Southside facility in Jacksonville, Duval County, Florida.

Day 90, after which the permits would be issued by default, is January 22, 1986.

The Bureau recommends your approval and signature.

CF/pa

Attachment

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. That folder can be found in one of the file drawers labeled Supplementary Documents Drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: Jacksonville Electric Authority, Southside Station

Permit(s) Numbered:

AC	16	-	108824
AC	16	-	109082

Period during
which document
was received:

Detailed Description

APPLICATION		Detailed Description
	1.	24"x36" B & W PRINT: GENERAL ARRANGEMENT 268 HP MOBILE STEAM PLANT B-37 (DRAWING NUMBER: B37-001)

JACKSONVILLE ELECTRIC AUTHORITY

21 WEST CHURCH STREET • JACKSONVILLE, FL 32202-3139

RECEIVED



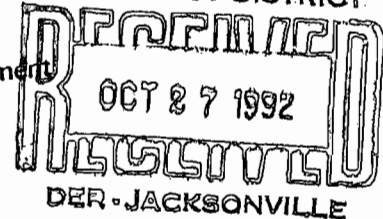
Clairie Faney
JCB
GPL / FYI

October 22, 1992

OCT 28 1992

NORTHEAST DISTRICT

Division of Air
Resources Management



Mr. Steve Pace
Senior Bio-Environmental Engineer
Regulatory and Environmental
Services Department
421 West Church Street, Suite 412
Jacksonville, Florida 32202

Dear Mr. Pace:

Re: Kennedy Generating Station Permit Renewals
Southside Generating Station Permit Renewals
Gas NOx Limits

Per our meeting of October 8, 1992 below is a summary of our position with regard to placing gas NOx limits on our existing gas/oil units:

- There is no legal basis for placing NOx limits on these existing units since NSPS, PSD, or RACT regulations do not apply and the ambient NOx standard is not being threatened. Also, there is a specific exclusion for gas conversion projects under the recent WEPCO rule adopted by EPA.
- Numerous stack tests have been performed which show that NOx emission rates on gas are always less than NOx emission rates on oil thereby providing reasonable assurance that NOx emissions will not increase as a result of burning gas.
- There is no technical or other basis for the arbitrary "liquid fuel" NOx limit placed on Southside Unit 5, which was obtained from one stack test conducted on August 18, 1981.

Waivers of the 90 day time limit for permit processing have already been provided under separate cover which will prevent us from obtaining the new permit prior to year end. For this reason we request a permit revision for Southside Unit 5 to remove the NOx limit prior to the end of this year. This will avoid a fee payment based on an inappropriate emission limit.

Mr. Steve Pace
October 22, 1992
Page Two

If you have any questions regarding the above, please call me at 632-6245.

Sincerely,



Richard Breitmoser, P.E.
Division Chief
Environmental Affairs

RB/NBG

Attachments: As Noted.

cc: Clair Fancy, FDER
Andy Kutyna, FDER

**DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES**
Bio-Environmental Services Division
Air and Water Pollution Control



October 29, 1985

Mr. Clair Fancy, P.E.
Florida Department of Environmental Regulation
2600 Blainstone Road
Tallahassee, FL 32301

Re: Jacksonville Electric Authority
Southside Generating Station
Temporary Boilers A & B

Dear Mr. Fancy:

The following comments are provided concerning the captioned items:

- (1) Condition No. 9 should be added as follows:
"Fuel oil analysis (% sulfur by weight) shall be performed in accordance with ASTM Method D2622-82 Sulfur in Petroleum Products (X-RAY Spectrographic Method) or other applicable ASTM Method".
- (2) Virgin oil should be defined. The following is suggested:
Virgin (New) Oil - Any oil or petroleum liquid, no fraction of which has been processed or refined more than once, and no fraction of which has previously been used in any application.

Your consideration of the above is requested.

Very truly yours,

Jerry E. Woosley
Associate Engineer

cc: Mr. Mort Benjamin, DER
BESD File 1690 M

JEW/bgm



AREA CODE 904 / AIR POLLUTION — 633-3033 OR 633-3303 / WATER POLLUTION — 633-3415
515 WEST 6TH STREET / JACKSONVILLE, FLORIDA 32206—4397

DER
OCT 30 1985
BAQM

PM
10-24-85
Fax, FL

DER
OCT 23 1985
BAQM

The Florida Times-Union



Jacksonville Journal

FLORIDA PUBLISHING COMPANY
Publishers
JACKSONVILLE, DUVAL COUNTY, FLORIDA

STATE OF FLORIDA }
COUNTY OF DUVAL }

Before the undersigned authority personally appeared George A. Dan

who on oath says that he is

Retail Advertising Manager of The Florida Times-Union, and

Jacksonville Journal, daily newspapers published at Jacksonville in Duval County,

Florida; that the attached copy of advertisement, being a _____

Legal Notice

in the matter of Dept. of Environmental Regulation

in the _____ Court,

was published in The Florida Times Union

in the issues of October 23

Affiant further says that the said The Florida Times-Union and Jacksonville Journal are each newspapers published at Jacksonville, in said Duval County, Florida, and that the said newspapers have each heretofore been continuously published in said Duval County, Florida, The Florida Times-Union each day, and Jacksonville Journal each day except Sundays, and each has been entered as second class mail matter at the postoffice in Jacksonville, in said Duval County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Sworn to and subscribed before me
this 23rd day of
October

Notary Public
State of Florida at Large

My Commission Expires

NOTARY PUBLIC STATE OF FLORIDA
My Commission Expires Feb. 19, 1989

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action
on Permit Applications

The Department of Environmental Regulation gives notice of its intent to issue permits to Jacksonville Electric Authority to construct oil/gas fired temporary auxiliary boilers "A" and "B" at their southside station located at 801 Colorado Avenue in Jacksonville, Duval County, Florida. A determination of best available control technology (BACT) was required. Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapter 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida, 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Model Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida, 32301. If no hearing officer has been assigned, the petition is to be filed with the department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida, 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

- Dept. of Env. Regulation
Northeast District
3426 Bills Road
Jacksonville, FL 32207
- Dept. of Env. Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, FL 32301
- Duval County Dept. of
Health, Welfare & Bio-
Environmental Services
515 West Sixth Street
Jacksonville, FL 32206

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 30 days will be considered in the department's final determination.

17.2-510
-650

Although minimal, the new hydrocarbon emissions will be credited towards a significant increase.

The table below summarizes the VOC emissions, as well as the increases from new sources since December 21, 1976.

<u>Source</u>	<u>Emission Limit (TPY)</u>	
Truck Loading Rack	12.34	
Tank #2 and #3 Slop Oil	0.18	
Tank #25-1 - 25,000 BBLs gasoline	9.65	
Tank #9 - Petroleum additives	0.06	
Tank #37-4 - 37,000 BBLs gasoline	10.86	
Tank #80-1 - 80,000 BBLs diesel	3.38	
Tank #1054 - 25,000 BBLs gasoline	.56	
Tank #60-1 - 60,000 BBLs gasoline	.83	
Tank #10 - 8000 gallons gasoline additives	.06	
#11 - "	.03	OCT '84
B. <u>Air Quality Analysis</u> 223,000	1.37	
ADD Δ "C" <u>WASHING RACK</u> (47,000 Bbl THROUGHPUT)	.72	FEB '85
No ambient monitoring or modeling is required to provide reasonable assurance that ambient air standards will not be violated. Δ #1		
TANK #1055 - 12,000 Bbl gasoline	1.37	FEB '85

IV. CONCLUSIONS

Based on review of the data submitted by Central Florida Pipeline Corporation for the installation of the 8000 gallon gasoline additives tank, the FDER concludes that compliance with all applicable state air quality regulations will be achieved provided certain specific conditions are met.

The general and specific conditions are listed in the proposed permit.

EA TEMP AIR FLOWERS
 SS A13

AC16-108824 "A"
 AC 16-109 "E"

- 8760 HRS

- 40% OP TIME PROTECTED

- 2 BOILERS 6.1 MM BTU/hr = 12.2 MM BTU/hr
 OR 2% OF MAIN UNIT

- 8760 H.C.C./YR

- AP-42 EMISSIONS FACTOR

CONSIDERED A COMMERCIAL BOILER < 10 MM BTU

PM SO₂ CO NO_x VOC

DISTILLATE OIL 2 lbs / 10³ gal 142 lbs / 10³ gal 2 lbs / 10³ gal 2 lbs / 10³ gal 3 lbs / 10³ gal
 x (0.5%)

10T GAS 1.5 lbs / 10³ FT³ 0.6 lbs / 10³ FT³ 2 lbs / 10³ FT³ 12 lbs / 10³ FT³ 0.3 lbs / 10³ FT³

EMISSIONS

(Q = FLOW)

$$SO_2 \text{ (lb)} : \frac{142 \text{ lbs}}{10^3 \text{ gal}} \cdot \frac{1 \text{ gal}}{135 \cdot 10^3 \text{ BTU}} = \frac{0.142 \text{ lbs}}{135 \cdot 10^3 \text{ BTU}}$$

$$\left(\frac{142 \text{ lbs}}{10^3 \text{ gal}} \cdot \frac{6.1 \cdot 10^6 \text{ BTU/hr}}{135 \cdot 10^3 \text{ BTU}} \cdot \frac{1 \text{ gal}}{135 \cdot 10^3 \text{ BTU}} \right) = \frac{0.142 \text{ lbs}}{\text{gal}} \cdot (45.19 \text{ gal/hr})$$

$$= 6.42 \times 0.5(7.5) = 3.2 \text{ lbs/hr} \quad 14 \text{ TAY}$$

$$TSP \text{ (lb)} : \frac{2 \text{ lbs}}{10^3 \text{ gal}} \cdot (45.19 \text{ gal/hr}) = 0.9 \text{ lb/hr} \quad 3.94 \text{ TAY}$$

$$NO_x \text{ (lb)} : \frac{12 \text{ lbs}}{10^3 \text{ FT}^3} \cdot \frac{6.1 \cdot 10^6 \text{ BTU/hr}}{10^3} = 0.61 \text{ lb/hr} \quad 2.67 \text{ TAY}$$



JACKSONVILLE ELECTRIC AUTHORITY

JACKSONVILLE, FLORIDA

VOID 90 DAYS FROM DATE

DATE 9-17-85

CHECK NUMBER 306522

PAY EXACTLY *****100* DOLLARS AND 00 CENTS

*****100.00*

CHECK AMOUNT

PAY TO THE ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATIONS

[Handwritten signature]

ATLANTIC NATIONAL BANK OF FLORIDA

830

306522 0630000211500200250

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

No 76091

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Jacksonville Electric Authority Date Sept. 26, 1985

Address 233 N. Duval St. Jacksonville FL Dollars \$ 100.00

Applicant Name & Address same as above

Source of Revenue _____

Revenue Code 001031

Application Number AC 16-109082

By Patricia G. Adams

Jacksonville Electric Authority

233 WEST DUVAL STREET • P. O. BOX 53015 • JACKSONVILLE, FLORIDA 32201



September 5, 1985

Mr. Michael Phillips
Center Air Permitting Section
Bureau of Air Quality Management
Fla. Dept. of Env. Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Mr. Phillips:

Re: Temporary Auxiliary Boiler (2)
Southside Generating Station

Per your recent request, please find enclosed a diagram of the proposed boiler (2) to be used temporarily until a permanent auxiliary boiler has been installed at the Southside Generating Station.

The manufacturer model information is as follows:

Name - Cleaver-Brooks
Model No. M 4 HP-100-6000
Steam Boiler
250 PSIG Design

If you have any additional questions, please contact me.

Very truly yours,

Richard Breitmoser, P.E.
Division Chief
Research & Environmental
Affairs Division

RB/lwr

cc: W. G. Mercer - w/o enc.
A. Haaland - "
Files

Enclosure

DER

SEP 5 1985

BAQM

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

1. Show to whom, date and address of delivery.

2. Restricted Delivery.

3. Article Addressed to:
 Mr. Royce Lyles
 233 W. Duval Street
 P. O. Box 53015
 Jacksonville, FL 32201

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	P 085 152 648

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *Aurice Harris*

7. Date of Delivery
 SEP 9 1985

8. Addressee's Address (ONLY if requested and fee paid)

DOMESTIC RETURN RECEIPT

P 085 152 648

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

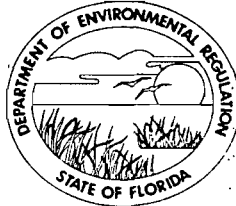
* U.S.G.P.O. 1984-446-014

PS Form 3800, Feb. 1982

Sent to Mr. Royce Lyles	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 9/5/85	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

September 4, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Royce Lyles
233 West Duval Street
P. O. Box 53015
Jacksonville, Florida 32201

Dear Mr. Lyles:

Re: Permit Applications No. AC 16-108824 and AC 16-109082
South Side Temporary Auxiliary Boilers "A" and "B"

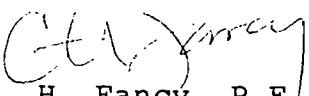
A review of your application to construct the referenced air pollution sources indicates that it is incomplete. The following is required to complete your application.

1. Section III-C: Potential emissions are noted as based on No. 6 fuel oil. Clarify this rationale.
2. Section V-2: Provide diagram of boiler and it's relation to overall system. Manufacturers specifications for units are also to be submitted.
3. Your application for construction consists of two independent sources. While we accept your single application for permitting, an additional \$100 fee is required.

Upon receipt of your response to the above items, processing of your applications will resume. Please refer to this letter in your response.

If there are any questions, please call M. G. Phillips (904)488-1344 or write to me at above address.

Sincerely,

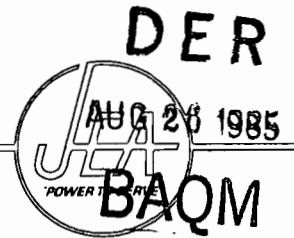

C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/MP/s

cc: Richard Brietmoser, P.E.

Jacksonville Electric Authority

233 WEST DUVAL STREET • P. O. BOX 53015 • JACKSONVILLE, FLORIDA 32201



August 22, 1985

Mr. Donald C. Bayly, Division Chief
Bio-Environmental Services Division
515 West Sixth Street
Jacksonville, Florida 32211

Dear Mr. Bayly:

Re: Temporary Auxiliary Boiler (A, B)
Southside Generating Station

The enclosed application is for the temporary operation of two truck mounted auxiliary boilers at the Southside Generating Station.

The boilers will be operated temporarily until a permanent auxiliary boiler can be installed at the station. (Construction Permit No. AC 86190).

Expeditious handling of this application is requested as recent studies have indicated savings of between \$2000 and \$8000 per day can be realized if the main boilers at the station can be placed on cold standby. Normally at least one unit must always be in operation at the station to provide process steam necessary for startup of other units. The proposed auxiliary boilers will operate in lieu of the main boilers during periods of low power requirements from the Southside station.

Your assistance in providing a construction permit for these boilers as soon as possible would be most appreciated. Please contact me immediately if there are any questions concerning the application (ph. 633-4517).

Very truly yours,

A handwritten signature in black ink, appearing to read "Richard Breitmoser".

Richard Breitmoser, P.E.
Division Chief
Research & Environmental
Affairs Division

RB/lwr

cc: R. Lyles	A. Bavington	H. Poncher
B. Wirz	H. Chapman	Files

Enclosures: 1) 4 copies - Application to Construct Air
Pollution Source
2) Filing Fee - Check for \$100.00

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division

August 26, 1985



AUG 26 1985

BAQM

Mr. Clair Fancy, P.E.
Department of Environmental Regulations
2600 Blairstone Road
Tallahassee, FL 32301

Re: JEA - Southside Generating Station Portable Auxiliary Boilers

Dear Mr. Fancy:

Enclosed are three copies of an application to construct two auxiliary boilers and a \$100.00 check (application fee). These applications are being forwarded to your office for processing in accordance with current agreements. Comments are provided as follows:

- (1) The application fee is deficient by \$100.00.
- (2) The sources will be exempt from RACT since BACT is required. A suggested BACT is as follows:
 - A) Visible emissions - 15% opacity continuous, 40% opacity for two (2) minutes per hour.
 - B) Particulate and SO₂ - Firing natural gas or No. 2 virgin (new) fuel oil. A supporting BACT determination is enclosed.
- (3) The modification should not be subject to PSD or NSR in a non-attainment area since there is no significant net emissions increase.

Bio-Environmental Services Division (BESD) supports the issuance of these permits as they will allow the construction of sources which will result in a net improvement in air quality.

If BESD may be of further assistance, please advise.

Very truly yours,

Khurshid Mehta
Khurshid K. Mehta, P.E.
Pollution Control Engineer

Enclosures

cc: Mr. John Brown, P.E., DER
BESD File 1690 M

KKM/JEW/bgm



DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Bill

Initial

Date

2.

17-2-600 (6)

Initial

Date

3.

PERMITS TO 8760 WRS. LA

Initial

Date

4.

MAX. EMISSIONS

Initial

Date

REMARKS:

New application from JEA. \$100 received. Do not know date rec'd by BE'S.

Ed P. has a copy Ed. SUE

Permitted max boiler not from app. 2 letters @ 5/20/60. SS Part Boiler Permits. What BE EMISSIONS TEST FOR. WASTEWATER 72 OIL FOR BOILER CO.

FROM: *ADMINISTRATOR*

Patty UNOOR SUEB BOLLER PATTY RUCB BACT

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

DATE

PHONE

END CONSTRUCTION 6.1.60 - THEN END OF CASE. WILL NOT DECREASE IN EMISSIONS DUE TO WASTE.



JACKSONVILLE ELECTRIC AUTHORITY

VOID 90 DAYS FROM DATE

DATE 8-13-85

CHECK

NUMBER 304977

JACKSONVILLE FLORIDA

PAY EXACTLY \$100.00 DOLLARS AND 00 CENTS

CHECK AMOUNT \$100.00

PAY TO THE ORDER OF

FLA DEPT OF ENV REGULATION

YON

Patricia D. Adams

ATLANTIC NATIONAL BANK OF FLORIDA

63-2

130

⑆01977⑆ ⑆00100000241⑆ ⑆1500200250⑆

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 76086

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Jacksonville Electric Authority Date August 30, 1985

Address 233 N Duval St. Jacksonville FL Dollars \$ 100.00

Applicant Name & Address Same as above

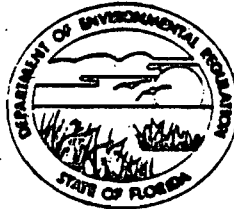
Source of Revenue _____

Revenue Code 001031 Application Number AC-16-108739

By Patricia D. Adams

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2500 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



AC 16-108824 #
AC 16-109082
DER
AUG 20 1985
BAQM

BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Oil/Gas Fired Boilers (2) [] New¹ [] Existing¹
APPLICATION TYPE: [X] Construction [] Operation [] Modification
COMPANY NAME: Jacksonville Electric Authority COUNTY: Duval
Identify the specific emission point source(s) addressed in this application (i.e. Line
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Temp. Aux. Boilers (A,B)
SOURCE LOCATION: Street 801 Colorado Avenue City Jacksonville
UTM: East 437.64 North 3353.82
Latitude 30° 18' 57" N Longitude 81° 38' 56" W
APPLICANT NAME AND TITLE: Royce Lyles, Managing Director
APPLICANT ADDRESS: 233 West Duval Street, Jacksonville, Florida 32202

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Jax. Electric Authority

I certify that the statements made in this application for a construction 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: Royce Lyles
Royce Lyles, Managing Director
Name and Title (Please Type)

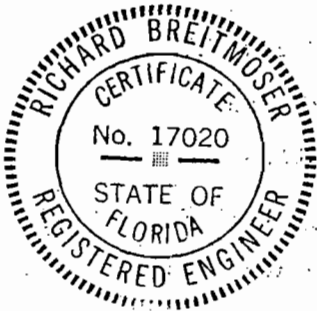
Date: 8/22/85 Telephone No. (904) 633-4780

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

See Florida Administrative Code Rule 17-2.100(97) 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 [Signature]
Richard Breitmoser
Name (Please Type)
Jacksonville Electric Authority
Company Name (Please Type)
P. O. Box 53015, Jacksonville, Fla. 32201
Mailing Address (Please Type)

Florida Registration No. 17020 Date: 8/22/85 Telephone No. (904) 633-4517

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.

Proposed unit is a portable, truck bed-mounted boiler room for temporary standby auxiliary service during outage of main generating units.
Primary use will be to maintain residual (#6) fuel temperature for main unit startup.

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

Start of Construction 9-1-85 Completion of Construction 3-1-86

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.)

Pollution control will be achieved by firing with premium fuels - natural gas (primary) and No. 2 fuel oil (secondary)

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

This unit will operate during outages of:
SS No. 4 (AO 16-19287), Reapplication submitted
SS No. 5 (AO 16-59262), Rev. 6/16/83, Exp. 8/31/87

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
 if power plant, hrs/yr _____ ; if seasonal, describe: These units will operate only in a standby mode to provide essential steam services when main generating units are on cold standby. It is estimated that each boiler will operate less than 40 percent of the time on an annual basis, but may be required full time in fall and winter and prior to startup of main generating units.

F. If this is a new source or major modification, answer the following questions.
 (Yes or No)

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1. Is this source in a non-attainment area for a particular pollutant? | <u>NO**</u> |
| a. If yes, has "offset" been applied? | <u>NO</u> |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | <u>YES</u> |
| c. If yes, list non-attainment pollutants. <u>Particulate Matter</u> | |
| 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. | <u>YES</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirement apply to this source? If yes, see Sections VI and VII. | <u>NO</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? | <u>NO</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? | <u>NO</u> |
| H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? | <u>NO</u> |
| a. If yes, for what pollutants? <u>N/A</u> | |
| 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 justification for any answer of "No" that might be considered questionable.

The two units, each capable of approximately 6.1 MMBtu/hr (12.2 MMBtu/hr total), operate in lieu of the main station generating units, the smallest of which is 380 MMBtu/hr. Emissions from the facility will always be less when the proposed units are in operation than emissions from the unmodified facility. Particulate emissions from the proposed premium fuels will be so low as to constitute LAER. The proposed modification is configured so as not to interfere with reasonable progress toward attainment (17-2.520(3)(b)).

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

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

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

B. Process Rate, if applicable: (See Section V, Item 1)

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

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

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

No. 2 fuel oil (maximum) emissions for each unit (A, B)

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/xx hr	T/yr	
SO2	3.2	5.62	17-2.600(6)(c)	BACT, 3.2	6.7	11.73	Flue Gas
Particulate	0.1	0.16	17-2.600(6)(b)	BACT, 0.1	0.6	0.97	"
Visible Emissions	-	-	17-2.600(6)(a)	**20%	-	-	"

¹See Section V, Item 2. Calculated on a basis of 40% L.F., 0.5% S and AP-42 Emissions estimates

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).

SO2 = 142 S/Kgal, @ 135 K BTU/gal = 1.055/MMBTU: 1.05 X 0.5 X 6.1 = 3.2 lb/hr
 TSP = 2 lb/K gal, @ 135 K BTU/gal = 0.015 lb/MMBTU: 0.015 X 6.1 = 0.1 lb/hr

D. Control Devices: (See Section V, Item 4) None Available

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 (Totals for both units)

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 2 Fuel Oil	20	(2 X 45 =) 90	(2 X 6.1 =) 12.2
or			
Natural Gas	2,700 CFH	(2 X 6,100 =) 12,200 CFH	(2 X 6.1 =) 12.2

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

Fuel Analysis: No. 2 Fuel Oil/Natural Gas

Percent Sulfur: FO - < 0.5/NG - 0.0035 Percent Ash: FO - < 0.01/NG - 0.000

Density: FO - 6.8 (+)/ NG---- lbs/gal Typical Percent Nitrogen: FO - 0.1/NG - 0.4

Heat Capacity: FO - 19,500 (+) BTU/lb FO - 135,000 (+)/NG - 1,000 BTU/(Vol.)
BTU/CF

Other Fuel Contaminants (which may cause air pollution): None known

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average 10 Maximum 30

G. Indicate liquid or solid wastes generated and method of disposal.

Boiler blowdown and water softener regeneration wastewaters to be
discharged to existing regulated and/or permitted facilities, as
applicable.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 16 ft ea ft. Stack Diameter: 1'-4" ea ft.
 Gas Flow Rate: 2100 ea ACFM 1080 ea DSCFM Gas Exit Temperature: 400-450 °F.
 Water Vapor Content: 12.5 (vol) % Velocity: 25 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control devices: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: N/A

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

N/A

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

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
Sulfur Dioxide	3.2 lb/hr max.
Particulate Matter	0.1 lb/hr max.

D. Describe the ~~existing~~ ^{proposed} control and treatment technology (if any).

- | | |
|----------------------------------------------------------------------|------------------------------------------------------------|
| 1. Control Device/System:
Positioning fuel/air proportioning with | 2. Operating Principles:
oxygen trim; fuel sulfur spec. |
| 3. Efficiency: * N/A | 4. Capital Costs:
Included in boiler cost |

*Explain method of determining

5. Useful Life: Temporary Rental

7. Energy: Net energy reduction

9. Emissions:

6. Operating Costs: Savings

8. Maintenance Cost: minimal - \$1000/yr

Contaminant	Rate or Concentration
Sulfur Dioxide	3.2 lb/hr max.
Particulate Matter	0.1 lb/hr max.

10. Stack Parameters

a. Height: 16 ft. b. Diameter: 1'-4" ft.
c. Flow Rate: 2100 ACFM d. Temperature: 450 °F.
e. Velocity: 25 FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). No known control technologies are used on units of this type, size and fuel.

1.

- a. Control Devices
- 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:

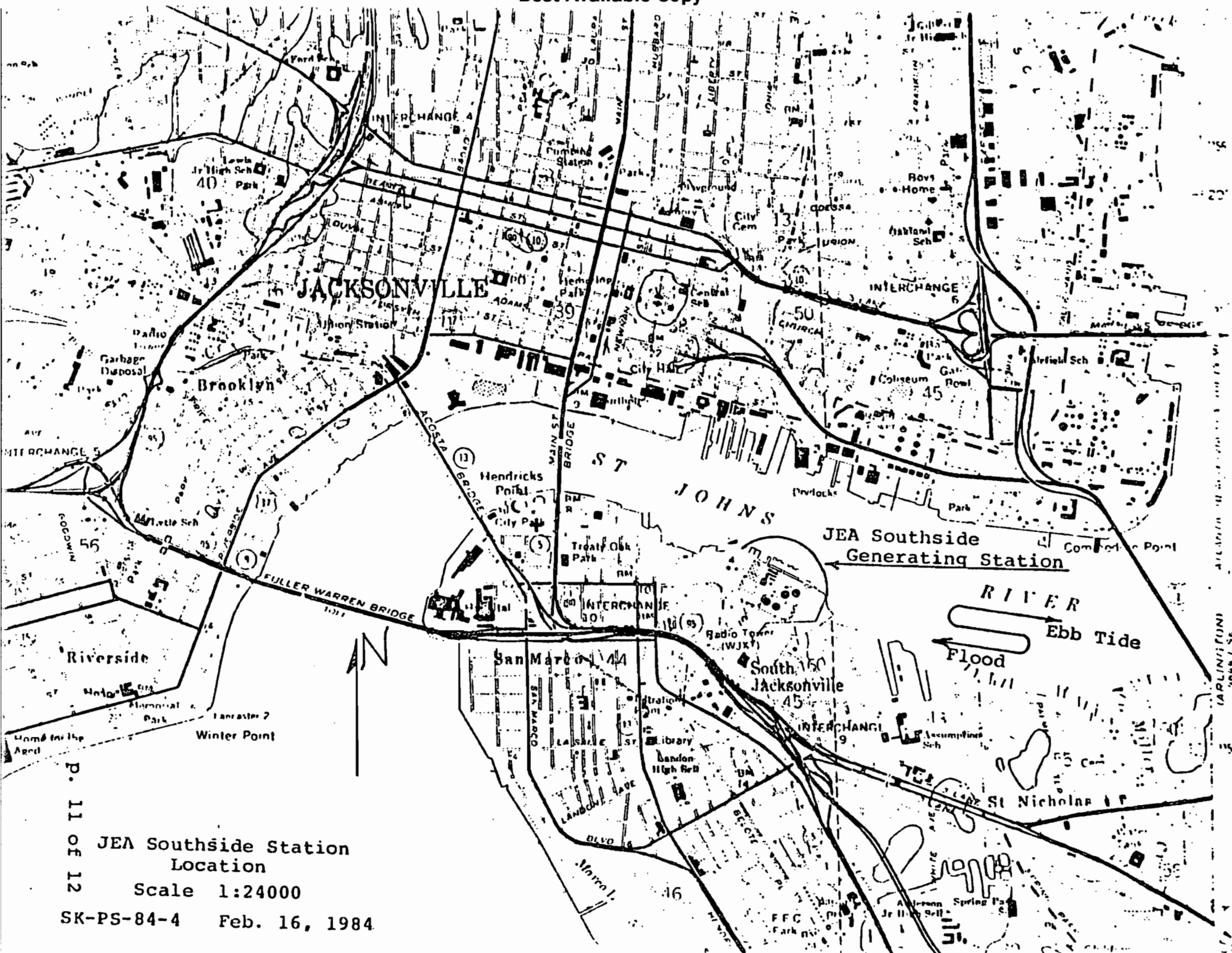
4.

- | | |
|-----------------------------|--------------------------|
| 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:

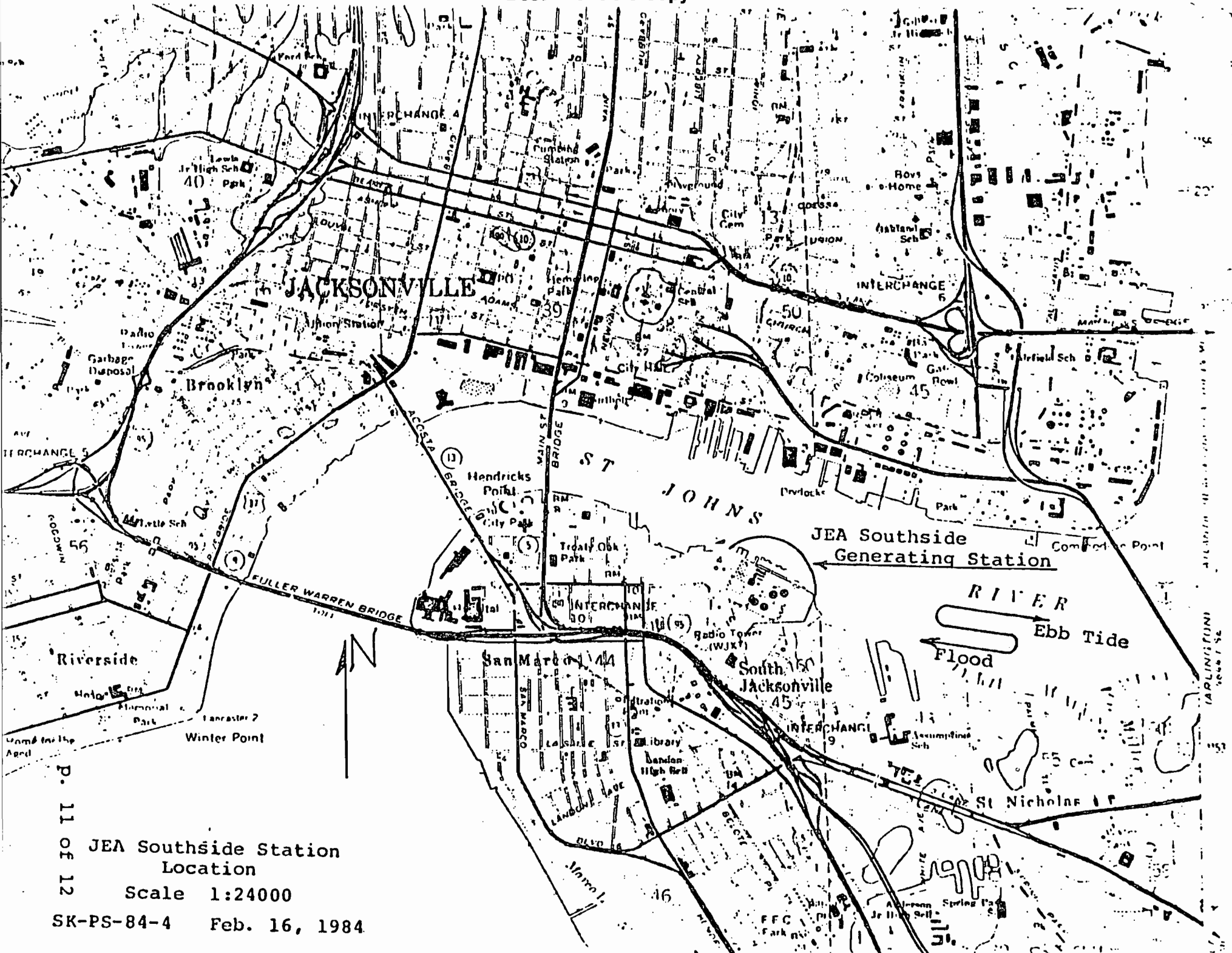
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|----------------------|-----------------------------|
| 1. Control Device: | 2. Efficiency: ¹ |
| 3. Capital Cost: | 4. Useful Life: |
| 5. Operating Cost: | 6. Energy: ² |
| 7. Maintenance Cost: | 8. Manufacturer: |
- 9. Other locations where employed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

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



p. 11 OF 12
 JEA Southside Station
 Location
 Scale 1:24000
 SK-PS-84-4 Feb. 16, 1984

(ARLINGTON)
 1984 1 56



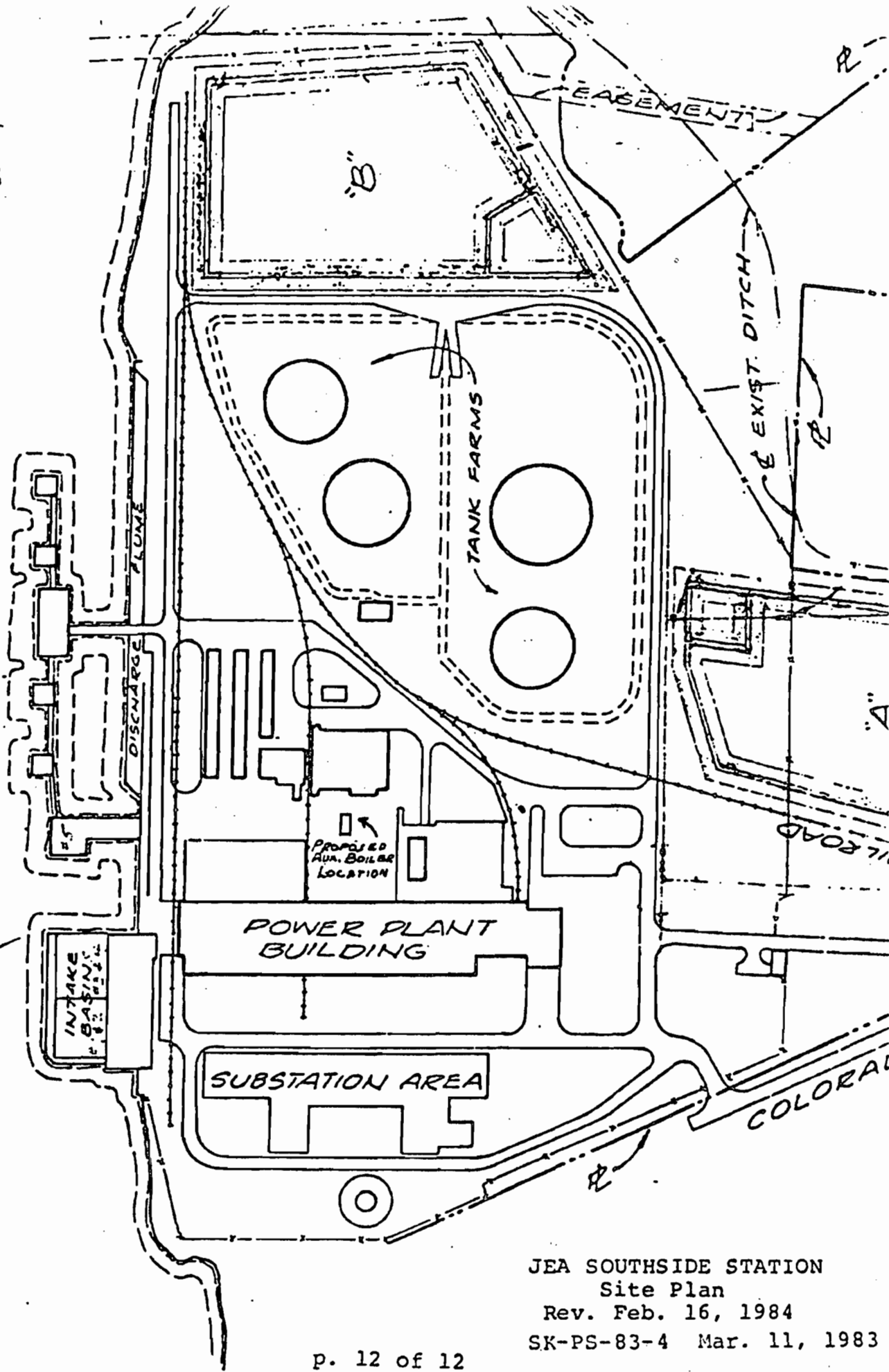
P. 11 OF 12

JEA Southside Station Location

Scale 1:24000

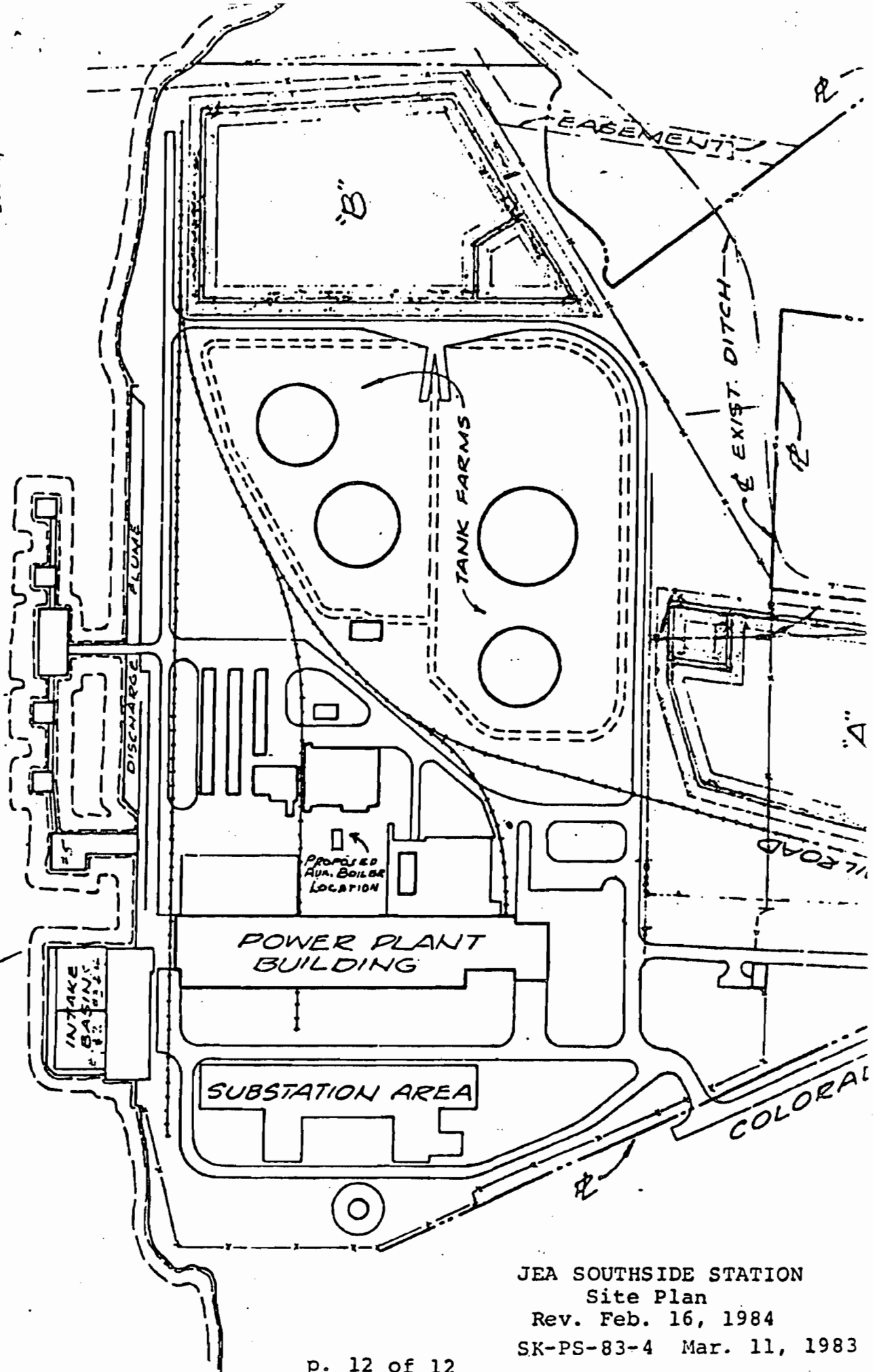
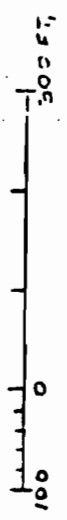
SK-PS-84-4 Feb. 16, 1984

ST. JOHNS RIVER



JEA SOUTHSIDE STATION
Site Plan
Rev. Feb. 16, 1984
SK-PS-83-4 Mar. 11, 1983

ST. JOHNS RIVER



JEA SOUTHSIDE STATION
Site Plan
Rev. Feb. 16, 1984
SK-PS-83-4 Mar. 11, 1983

Best Available Control Technology (BACT) Determination
Jacksonville Electric Authority
Duval County

The applicant plans to install two (2) 6.1 MM Btu/hr auxillary boilers at their facility in Jacksonville, Florida. The boilers will fire primarily natural gas and use No. 2 fuel oil on a secondary basis. These truck mounted boilers will be used temporarily until a permanent boiler can be installed (Constrution Permit No. AC 86190.)

A BACT determination is required for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emissions Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Particulate and sulfur dioxide emissions to be controlled by firing of natural gas and low sulfur content distillate fuel oil.

Date of Receipt of a BACT application:

August 26, 1985

Date of Publication in the Florida Administrative Weekly:

September 20, 1985

Review of Group Members:

The determination was based upon comments received from the Stationary Source Control Section and the Northeast District.

Review Determined by DER:

The amount of particulate and sulfur dioxide emissions from the new boilers will be limited by the firing of new [1] No.2 distillate oil having a sulfur content not to exceed 0.5 percent, by weight.

Visible Emissions

Not to exceed 15 percent opacity. 40% opacity is permitted for not more than two minutes in any one hour.

DER Method 9 (17-2.700(6)(a)9, FAC) will be used to determine compliance with the opacity standard.

[1] The term "new" means an oil which has been refined from crude oil and has not been used.

BACT Determination Rationale:

Sulfur in fuel oil is a primary air pollution concern, in that most of the fuel sulfur becomes SO₂ and particulate emissions from oil burning are related to the sulfur content. The department agrees with the applicant's proposal that the firing of natural gas and No.2 distillate oil containing 0.5 percent or less sulfur by weight is BACT for the 6.1 MM Btu/hr boilers.

The term "new oil" disallows the use of re-refined and waste oils, or any non-fossil fuels which were not considered in this BACT analysis.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:



C. H. Fancy, P.E., Deputy Bureau Chief

Date: 9-13-85

Approved:

September 16, 1985
Victoria J. Tschinkel, Secretary

Date: Victoria J. Tschinkel

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

September 4, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Royce Lyles
233 West Duval Street
P. O. Box 53015
Jacksonville, Florida 32201

Dear Mr. Lyles:

Re: Permit Applications No. AC 16-108824 and AC 16-109082
South Side Temporary Auxiliary Boilers "A" and "B"


A review of your application to construct the referenced air pollution sources indicates that it is incomplete. The following is required to complete your application.

1. Section III-C: Potential emissions are noted as based on No. 6 fuel oil. Clarify this rationale.
2. Section V-2: Provide diagram of boiler and it's relation to overall system. Manufacturers specifications for units are also to be submitted.
3. Your application for construction consists of two independent sources. While we accept your single application for permitting, an additional \$100 fee is required.

Upon receipt of your response to the above items, processing of your applications will resume. Please refer to this letter in your response.

If there are any questions, please call M. G. Phillips (904)488-1344 or write to me at above address.

Sincerely,


C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/MP/s

cc: Richard Brietmoser, P.E.