



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

November 18, 1996

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

Mr. Robert E. McGarrah, Production Superintendent  
City of Tallahassee, Electric Utility  
2602 Jackson Bluff Road  
Tallahassee, Florida 32304

Re: Request for Additional Information Regarding Initial Title V Permit Application  
File No.: 0730003-001-AV  
Arvah B. Hopkins Generating Station, Wakulla County

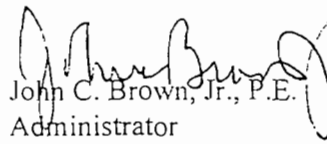
Dear Mr. McGarrah:

The initial Title V permit application for the Arvah B. Hopkins Generating Station was received in a timely manner (June 14, 1996) and has been deemed complete by default. However, in order to continue processing this application, the Department is requesting the additional information outlined below. Should your response to any of the listed items require new calculations, please submit the new calculations, assumptions, reference material and appropriate revised pages of the application form.

1. The section of the Title V permit application pertaining to fugitive VOC emissions that was submitted for this facility appears to be identical to the fugitive VOC emissions section that was submitted for the Sam O. Purdom Generating Station. Please advise if this is the correct submission for this facility.
2. For consistency in the emissions unit description sections on the Title V permit, please provide the manufacturers rated steam output for boiler number 2.

The above comments require a written response to the Department within ninety days of receipt of this notice unless additional time is requested pursuant to Rule 62-213.420(1)(b)6., F.A.C. If you should have any questions, please contact Jonathan Holtom or me at (904) 488-1344.

Sincerely,

  
John C. Brown, Jr., P.E.  
Administrator  
Title V Section

JCB/jh

CC: Mr. Darrel Graziani, P.E., Foster Wheeler Environmental Corporation  
Mr. Ed Middleswart, DEP, Northwest District Office  
Mr. Gerry Neubauer, DEP, Northwest District Branch Office

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

**Is your RETURN ADDRESS completed on the reverse side?**

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Mr. Robert E. McGarrah  
City of Tallahassee, Electric  
Utility  
2602 Jackson Bluff Road  
Tallahassee, Florida 32304

4a. Article Number  
Z 311 902 878

4b. Service Type  
☐ Registered ☐ Insured  
☒ Certified ☐ COD  
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery  
11-25-96

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

**Thank you for using Return Receipt Service.**

Z 311 902 878



**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PS Form 3800, March 1993

Sent to Mr. Robert E. McGarrah	
Street and No. 2602 Jackson Bluff Road	
P.O., State and ZIP Code Tallahassee, Florida 32304	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

# Memorandum

# Florida Department of *File* Environmental Protection

TO: Ed Middleswart, NWD

FROM: Bruce Mitchell *Bm*

DATE: November 6, 1996

SUBJECT: Completeness Review of an Application Package for a Title V Operation Permit  
City of Tallahassee, Arvah B. Hopkins Generating Station: 0730003-001-AV

The Title V operating permit application package for the referenced facility is being processed in Tallahassee. The application was previously forwarded to your office for your files and future reference. Please have someone review the package for completeness and respond in writing by November 15, 1996, if you have any comments. Otherwise, no response is required. If there are any questions, please call the project engineer, Jonathan Holtom, at 904/488-1344 or SC:278-1344. It is very important to verify the compliance statement regarding the facility. Since we do not have a readily effective means of determining compliance at the time the application was submitted, please advise if you know of any emissions unit(s) that were not in compliance at that time and provide supporting information. Also, do not write on the documents.

If there are any questions regarding this request, please call me or Scott Sheplak at the above number(s).

RBM/bm

cc: Andy Allen, NWD

11-6-96

Ed/Andy,

I apologize for the shortness of this notice. All future notifications should provide at least 30-days for review time.

Sincerely,  
*Bm*

# Phase II Permit Application

Page 1

For more information, see instructions and refer to 40 CFR 72.30 and 72.31 and Chapter 62-214, F.A.C.

This submission is: ☒ New ☐ Revised

**STEP 1**  
Identify the source by plant name, State, and ORIS code from NADB

<b>Arvah B. Hopkins</b>	<b>FL</b>	<b>688</b>
Plant Name	State	ORIS Code

**STEP 2**  
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

Compliance Plan				
a	b	c	d	e
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Repowering Plan	New Units	New Units
			Commence Operation Date	Monitor Certification Deadline
1	Yes	No		
2	Yes	No		
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

**STEP 3**  
Check the box if the response in column c of Step 2 is "Yes" for any unit

☐ For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

**Arvah B. Hopkins**

Plant Name (from Step 1)

Phase II Permit - Page 2

**STEP 4**

Read the standard requirements and certification, enter the name of the designated representative, and sign and date

**Standard Requirements**Permit Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Submit a complete Acid Rain part application (including a compliance plan) under 40 CFR part 72, Rules 62-214.320 and 330, F.A.C. in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain part application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the permitting authority; and
  - (ii) Have an Acid Rain Part.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

**Arvah B. Hopkins**

Plant Name (from Step 1)

Phase II Permit - Page 3

Recordkeeping and Reporting Requirements (cont.)

(iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 75, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;


(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	<b>Rob E. McGarrah, Production Superintendent</b>	
Signature		Date <b>December 15, 1995</b>

**STEP 5 (optional)**  
Enter the source AIRS  
and FINDS identification  
numbers, if known

AIRS
FINDS

# Acid Rain Program

## Instructions for

### Phase II Permit Application

(40 CFR 72.30- 72.31 and Rule 62-214.320, F.A.C.)

*The Acid Rain Program regulations require the designated representative to submit an Acid Rain part application for Phase II for each source with an Acid Rain unit. A complete Phase II part application is binding on the owners and operators of the Acid Rain source and is enforceable in the absence of a permit until the permitting authority either issues a permit with an Acid Rain part to the source or disapproves the application.*

Please type or print. The alternate designated representative may sign in lieu of the designated representative. If assistance is needed, contact the permitting authority.

**STEP 1** NADB is the National Allowance Data Base for the Acid Rain Program. To obtain the database on diskette, call the Acid Rain Hotline at (202) 233-9620. This data file is in dBase format for use on an IBM-compatible PC. It requires 2 megabytes of hard drive memory. If the unit is not listed in NADB, use the plant name, ORIS Code, and Boiler ID listed on the certificate of representation for the plant.

**STEP 2** The monitor certification deadline is determined in accordance with 40 CFR 75.4. If the commence operation date or monitor certification date changes after the Phase II permit is issued, the source must submit a request for an administrative permit amendment.

**STEP 5** "AIRS" is the Aerometric Information Retrieval System operated by EPA's Office of Air Quality Planning and Standards. The AIRS number for a source has 12 digits. "FINDS" is the Facility Indexing System. It provides an Agency-wide ID number to cross-identify facilities in all EPA data systems. Please enter these numbers if they are available; this step is optional.

### Submission Instructions

**For Initial Phase II permit applications:** If, by November 15, 1995, the State or local jurisdiction (e.g., District, County, or City) in which the source is located has both (1) an acid rain program identified in a Federal Register notice as acceptable to the Administrator and (2) an operating permits program granted full or interim approval by the Administrator in a Federal Register notice, mail this form and three copies to that state or local authority. If not, mail this form and one copy to the EPA regional office and two copies to the State or local jurisdiction in which the source is located.

**If you have questions regarding this form, contact your local, State, or EPA regional representative, or call EPA's Acid Rain Hotline at (202) 233-9620.**



## Appendix H-1, Permit History/ID Number Changes

City of Tallahassee  
A. V. Hopkins

[DRAFT/PROPOSED/FINAL]Permit No.: 0730003-001-AV  
Facility ID No.: 0730003

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### Permit History (for tracking purposes):

E.U.

<u>ID No</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>	<u>Extended Date</u> <sup>1,2</sup>	<u>Revised Date(s)</u>
-001	Boiler Hopkins #1	AO37-242825	03/08/94	03/01/99		
-002	Turbine Hopkins Unit #1	AO37-242824	03/08/94	12/31/98		06/10/94, 06/24/94
-003	Combustion Turbine Hopkins #2	AO37-242824	03/08/94	12/31/98		06/10/94, 06/24/94
-004	Unit #2 Boiler	PA74-03D	05/20/75			05/18/94, 10/27/86

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### (if applicable) ID Number Changes (for tracking purposes):

From: **Facility ID No.:** 10TLH370003

To: **Facility ID No.:** 0730003

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### Notes:

1 - AO permit(s) automatic extension(s) in Rule 62-210.300(2)(a)3.a., F.A.C., effective 03/21/96.

2 - AC permit(s) automatic extension(s) in Rule 62-213.420(1)(a)4., F.A.C., effective 03/20/96.

{Rule 62-213.420(1)(b)2., F.A.C., effective 03/20/96, allows Title V Sources to operate under existing valid permits}



Lewton Chiles  
Governor

# Florida Department of Environmental Protection

Northwest District  
160 Governmental Center  
Pensacola, Florida 32501-5794

Virginia B. Wetherell  
Secretary

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: AO37-242825  
Date of Issue: March 8, 1994  
Expiration Date: March 1, 1999  
County: Leon  
Latitude/Longitude: 30°27'04"N/84°24'14"W  
Project: Hopkins Boiler No. 1

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 17-296, 17-297 and 17-4. The above named applicant, hereinafter called 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:

Operation of Boiler No. 1 with a rated capacity of 903 MMBtu/hour heat input and fueled by natural gas and/or fuel oil. This boiler produces nominally 750,000 pounds of steam per hour to run a nominal 75 MW turbine generator.

Located on County Road 1585, approximately 1/2 mile north of State Road 20 and one mile south of U.S. 90, and approximately 7 miles west of the State Capitol in Tallahassee.

Specific Condition No. 2 establishes maximum allowable operating and test rates.

Specific Condition No. 4 establishes allowable emission rates.

Specific Condition No. 5 establishes compliance testing requirements.

Specific Condition No. 6 establishes a fuel oil sulfur limit.

Specific Condition No. 8 requires submission of an annual operation report.

Specific Condition No. 9 requires submission of a Major Air Pollution Source Annual Operation Fee Form.

Specific Condition No. 10 requires a renewal permit application prior to December 31, 1998.

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: AO37-242825  
Date of Issue: March 8, 1994  
Expiration Date: March 1, 1999

## SPECIFIC CONDITIONS:

1. The attached General Conditions are part of this permit.

2. The maximum allowable heat input rate is 903 MMBtu/hour. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90 to 100% of the maximum allowable heat input rate for the fuel or mix of fuels being burned. If it is impracticable to test at capacity, then sources may be tested at less than capacity; if the source is tested at less than capacity subsequent source operation is limited to 110% of the test capacity until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department.

3. The maximum hours of operation are 24 hours/day, 7 days/week, and 52 weeks/year. The Permittee shall maintain an operation log available for Department inspection certifying the total hours of operation annually.

4. The maximum allowable emission rate for each pollutant is as follows:

Pollutant	FAC Rule	Allowable Emissions
VE	17-296.405 17-210.700	20% opacity* 60% during Excess Emissions
PM	17-296.405 17-210.700	0.10 lb/MMBtu** 0.30 lb/MMBtu during Excess Emissions**
SO <sub>2</sub> In situ slur	17-272.300	0.75 lb/MMBtu

\* except for one two-minute period per hour of not more than 40% opacity

\*\* PM emissions shall not exceed 0.1 (normal operations) and 0.3 (during excess emissions) lbs/MMBtu heat input when firing fuel oil. No PM limit shall apply when firing natural gas.

The excess emissions provision of F.A.C. Rule 17-210.700 shall apply during periods of startup, shutdown and malfunctions.

PERMITTEE:  
City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: AO37-242825  
Date of Issue: March 8, 1994  
Expiration Date: March 1, 1999

SPECIFIC CONDITIONS:

5. Emissions tests for the following pollutants shall be performed annually between August 1 and September 30, in accordance with the test methods and frequency indicated below, with notification to the Department 15 days prior to testing. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. For good cause, the Permittee may request an extension of a compliance test due date. However, inadequate planning of testing does not constitute good cause for an extension of the compliance test due date. The test report documentation must be submitted to the Department within 45 days after completion of testing.

<u>Pollutant</u>	<u>Frequency</u>	<u>Test Method</u>
VE*	Annually, during normal operations Annually, during excess emissions, when applicable	DEP 9 DEP 9
PM*,*1	Annually Annually, during excess emissions, when applicable	EPA 1, 2, 3 and 5 or 17 EPA 1, 2, 3, and 5 or 17

\* Shall be conducted using the maximum fuel oil to gas ratio in use during the current test year.

\*1 No particulate emissions test shall be required in any federal fiscal year in which the fossil fuel system generator did not burn fuel oil for more than 400 hours other than during startup.

The VE test shall be conducted during one of the P.M. test runs. Test reports shall comply with F.A.C. Rule 17-297.570, Test Reports. The Department can require special compliance tests in accordance with F.A.C. Rule 17-297.340(2).

6. If fueled 100% by oil the sulfur content of the oil shall not exceed 0.7% by weight. Records of fuel oil sulfur content shall be kept and made available for Department inspections.

7. Satisfactory ladders, platforms, and other safety devices as well as necessary parts shall be provided, maintained, and made available as necessary to facilitate compliance inspections.

8. An annual operation report [DEP Form 17-210.900(4) attached] shall be submitted by March 1 each year. The attached form shall be reproduced by the Permittee and used for future annual submittals.

PERMITTEE:  
City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: AO37-242825  
Date of Issue: March 8, 1994  
Expiration Date: March 1, 1999

SPECIFIC CONDITIONS:

9. In accordance with F.A.C. Rule 17-213, a Major Air Pollution Source Annual Operation Fee Form [DEP Form 17-213.900(11) attached] must be completed and submitted with appropriate fee between January 15 and March 1 of each year. If the Department has not received the fee payment by March 1, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee, plus interest on such amount computed in accordance with s.220.807, Florida Statutes. The Department may revoke any major air pollution source operation permit if it finds that the permit holder has failed to pay timely and required annual operation license fee, penalty or interest. The attached form shall be reproduced by the Permittee and used for future annual submittals. The completed form and appropriate fees must be submitted to the Department of Environmental Protection, Title V (Facility I.D. Number), 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

10. An application to renew this permit shall be submitted prior to December 31, 1998.

11. The permanent source identification number for this point source is 10TLH37000301. Please cite this number on all test reports and other correspondence specific to this permitted point source.

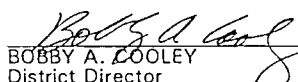
12. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (904) 444-8300, day or night, and for emergencies involving a significant threat to human health or the environment is (904) 488-1320. For routine business, use telephone number (904) 444-8300 during normal working hours.

Expiration Date:

Issued this 8<sup>th</sup> day of March,  
1994.

March 1, 1999

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
BOBBY A. COOLEY  
District Director



## Florida Department of Environmental Regulation

Northwest District • 160 Governmental Center • Pensacola, Florida 32501-5794 • 904-436-8300

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Robert Kirepel, Deputy Assistant Secretary

### PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: A037-159965  
Date of Issue: March 3, 1989  
Date of Modification: MAR 16 1989  
Expiration Date: March 1, 1994  
County: Leon  
Latitude/Longitude: 30°27'04"N/84°24'14"W  
Section/Township/Range: 26/1N/2W  
Project: Hopkins Boiler #1

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The above named applicant, hereinafter called 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:

Operation of Boiler #1, capacity 903 million Btu/hour heat input, fueled by natural gas and/or #6 fuel oil. Produces 750,000 pounds of steam per hour to run a 75,000 KW turbine-generator. Particulates are controlled by proper combustion control. Sulfur dioxide emissions are controlled by the sulfur content of fuel.

Located: County Road 1585, approximately 1/2 mile north of State Road 20, 1 mile south of U.S. 90, 7 miles west of State Capitol, Tallahassee.

### PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: A037-159965  
Date of Issue: March 3, 1989  
Date of Modification: MAR 16 1989  
Expiration Date: March 1, 1994

### GENERAL CONDITIONS:

14. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware 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:

15. The maximum allowable heat input is 903 million Btu per hour. Compliance with standards shall be demonstrated while the source is operating within 10% of its rated capacity, provided however that testing may be conducted at less than 90% of rated capacity in which case the source's production rate shall be limited to 110% of the capacity at which the test was performed until additional compliance testing is performed.

16. An annual compliance test for particulate matter emissions using the maximum oil/gas fuel heat input ratio shall be conducted during each federal fiscal year (October 1 - September 30) except that such test shall not be required in any year in which the fossil fuel steam generator did not burn liquid fuel for more than 400 hours.

17. For excess emission limitations for particulate matter specified in Section 17-2.250, a compliance test shall be conducted annually while the source is operating under soot blowing conditions in any federal fiscal year during which soot blowing is part of normal source operation except that such test shall not be required in any fiscal year in which the fossil fuel steam generator did not burn liquid fuel more than 400 hours.

18. Annual compliance tests for particulate matter shall be conducted in accordance with EPA Methods 1, 2, 3, and 5 or 17. Results shall be submitted to the Department within 45 days after testing. The Department shall be notified at least 15 days prior to testing to allow witnessing.

19. Visible emissions tests (EPA Method 9) shall be conducted annually using the maximum oil/gas fuel ratio. Visible emissions shall not exceed 20% opacity under normal operation except for up to 2 minutes in any one hour at not more than 40% opacity.

20. Visible emissions tests (EPA Method 9) shall be conducted annually using the maximum oil/gas fuel ratio, under sootblowing conditions in any federal fiscal year during which soot blowing is part of normal source operation. Excess emissions resulting from boiler cleaning (soot blowing) and load change shall be permitted provided the duration of such excess emissions shall not exceed 3 hours in any 24 hour period and visible emissions shall not exceed 60% opacity.

PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000301  
Permit/Certification Number: A037-159965  
Date of Issue: March 30, 1989  
Date of Modification: MAR 16 1989  
Expiration Date: March 1, 1994

SPECIFIC CONDITIONS:

21. Particulate emissions shall not exceed 0.10 pounds per million Btu heat input.

22. Particulate emissions shall not exceed 0.30 pounds per million Btu heat input, during soot blowing.

23. Sulfur dioxide emissions shall not exceed 1.87 pounds per million Btu of total heat input. If fueled 100% by oil the sulfur content of the oil shall not exceed 1.80%. *Back Calcd from 1.87 #/MMBTU*

24. An annual operation report (DER Form 17-1.202(6) attached) shall be submitted by March 1 of each year. The attached form shall be reproduced by the permittee and used for future annual submittals. *Times Max Rate*

25. An application to renew this permit shall be submitted prior to January 1, 1994.

26. The permanent source identification number for this point source is 10TLH37000301. Please cite this number on all test reports and other correspondence specific to this permitted point source.

Expiration date:

March 1, 1994

Issued this 3rd day of March, 1989.

Date of Modification: MAR 16 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

ROBERT V. KRIEDEL  
Deputy Assistant Secretary

$$903 \frac{\text{MMBTU}}{\text{hr}} \times .99 = 894 \frac{\text{MMBTU}}{\text{hr}} = \frac{894 \frac{\text{MMBTU}}{\text{hr}}}{152,000 \frac{\text{Btu}}{\text{gal}}} = 5881 \frac{\text{gal}}{\text{hr}}$$

$$894 \frac{\text{MMBTU}}{\text{hr}} \times 1.87 \frac{\#}{\text{MMBTU}} = 1672 \frac{\# \text{SO}_2}{\text{hr}}$$

$$5881 \frac{\text{gal}}{\text{hr}} \times 8.33 \frac{\#}{\text{gal}} \times \%5 \times 2 = 1672 \frac{\# \text{SO}_2}{\text{hr}} = 1.7\% \text{ S}$$



# Department of Environmental Protection

Lawton Chiles  
Governor

Northwest District  
160 Governmental Center  
Pensacola, Florida 32501-5794

Virginia B. Wetherell  
Secretary

PERMITTEE:  
City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: AO37-242824  
Date of Issue: March 8, 1994  
Modification Date: June 10, 1994  
Modification Date: June 24, 1994  
Expiration Date: March 1, 1999  
County: Leon  
Latitude/Longitude: 30°27'08"N/84°24'00"W  
Project: Hopkins Combustion Turbines 1 & 2

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 17-296, 17-297 and 17-4. The above named applicant, hereinafter called 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:

Operation of combustion turbines 1 and 2 at the Arvah B. Hopkins Plant. These turbines are manufactured by Westinghouse, model numbers W191G and W251G, with heat input rates of 228 and 446 MMBtu/hour, respectively, and are fueled by natural gas or No. 2 fuel oil with a maximum of 0.4% sulfur. The turbines are used as peaking and emergency reserve units during peak demand hours, during emergencies, and during controls testing; and run nominal 16.47 and 26.8 MW generators, respectively.

Located on County Road 1585, approximately ½ mile north of State Road 20, one mile south of U.S. 90, and seven miles west of the State Capitol, in Tallahassee

Specific Condition No. 2 establishes maximum operating and testing rates.

Specific Condition No. 4 establishes maximum allowable emission rates.

Specific Condition No. 5 establishes testing requirements.

Specific Condition No. 6 limits the sulfur content of the fuel oil.

Specific Condition No. 7 requires submission of an annual operation report.

Specific Condition No. 8 requires submission of a Major Air Pollution Source Annual Operation Fee Form.

Specific Condition No. 9 requires submission of a renewal permit application prior to December 31, 1998.

PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: AO37-242824  
Date of Issue: March 8, 1994  
Modification Date: June 10, 1994  
Modification Date: June 24, 1994  
Expiration Date: December 31, 1998

SPECIFIC CONDITIONS:

1. The attached General Conditions are part of this permit.
2. The maximum allowable operating rate for Combustion Turbine 1 is 228 MMBtu/hour (LHV) heat input; for Combustion Turbine 2, 446 MMBtu/hour (LHV) at an ambient temperature of 80 degrees Fahrenheit. Testing of emissions shall be conducted at 95-100% of the permitted rated heat input based on the average ambient air temperature during the test. Data for correcting heat input rates (corrected for temperatures other than 80 degrees Fahrenheit) must be submitted with the compliance test report. If it is impracticable to test at 95-100% of the maximum allowable heat input rate corrected for the average ambient air temperature, then sources may be tested at less than 95% of the maximum allowable heat input. If the source is tested at less than 95% of the maximum allowable heat input, subsequent source operation is limited to 110% of the tested heat input rate corrected for average ambient air temperature until a new test is conducted. Once the unit is so limited, then operation at higher capacity is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit with prior notification to the Department.
3. The maximum hours of operation are 8491 hours/year for Combustion Turbine 1, and 7071 hours/year for Combustion Turbine 2. The Permittee shall maintain an operation log available for Department inspection certifying the total hours of operation annually.

4. The maximum allowable emission rate for each pollutant is as follows:

Pollutant	FAC Rule	Allowable Emissions
VE	17-296.310(2)	less than 20% opacity

5. Emissions tests for the following pollutants shall be performed annually between July 1 and August 31, in accordance with the test methods and frequency indicated, with notification to the Department 15 days prior to testing. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. For good cause, the Permittee may request an extension of a compliance test due date. However, inadequate planning of testing does not constitute good cause for an extension of the compliance test due date. The test report documentation must be submitted to the Department within 45 days after completion of testing.

Pollutant	Frequency	Test Method
VE	Annually	DEP 9

However, with the following exception, the visible emissions test shall only be required during those federal fiscal years during which the individual turbines operated greater than 400 hours.

A VE test is required in 1998 while operating on fuel oil.



PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: AO37-242824  
Date of Issue: March 8, 1994  
Modification Date: June 10, 1994  
Modification Date: June 24, 1994  
Expiration Date: December 31, 1998

SPECIFIC CONDITIONS:

6. If fueled 100% by oil, the sulfur content of the oil shall not exceed 0.4% sulfur by weight. Records of the fuel oil sulfur content shall be kept and made available for Department inspection.

7. An annual operation report [DEP Form 17-210.900(4) attached] shall be submitted by March 1 each year. The attached form shall be reproduced by the Permittee and used for future annual submittals.

8. In accordance with F.A.C. Rule 17-213, a Major Air Pollution Source Annual Operation Fee Form [DEP Form 17-213.900(11) attached] must be completed and submitted with appropriate fee between January 15 and March 1 of each year. If the Department has not received the fee payment by March 1, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee, plus interest on such amount computed in accordance with s.220.807, Florida Statutes. The Department may revoke any major air pollution source operation permit if it finds that the permit holder has failed to pay timely and required annual operation license fee, penalty or interest. The attached form shall be reproduced by the Permittee and used for future annual submittals. The completed form and appropriate fees must be submitted to the Department of Environmental Protection, Title V (Facility I.D. Number), 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

9. An application to renew this permit shall be submitted prior to December 31, 1998.

10. The permanent source identification number for these point sources are:

10TLH37000302 - Combustion Turbine 1  
10TLH37000303 - Combustion Turbine 2

Please cite these numbers on all test reports and other correspondence specific to these permitted point sources.

11. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (904) 444-8300, day or night, and for emergencies involving a significant threat to human health or the environment is (904) 488-1320. For routine business, use telephone number (904) 488-3704 during normal working hours.

Expiration Date:

Modified this 24<sup>th</sup> day of June,  
1994.

March 1, 1999

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
BOBBY A. COOLEY  
District Director



## Florida Department of Environmental Regulation

Northwest District • 160 Governmental Center • Pensacola, Florida 32501-5794 • 904-436-8300

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary  
Robert Kriegel, Deputy Assistant Secretary

### PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000302 & 10TLH37000303  
Permit/Certification Number: A037-159963

Date of Issue: March 3, 1989

Date of Modification: MAR 16 1989

Expiration Date: March 1, 1994

County: Leon

Latitude/Longitude: 30°27'08"N/84°24'00"W

Section/Township/Range: 26/1N/2W

Project: Hopkins Combustion Turbines #1 & 2

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The above named applicant, hereinafter called 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:

Operation of combustion turbines #1 and #2, manufactured by Westinghouse. These are respectively: models W191G and W250G, capacities 221 and 360 million Btu/hour heat input, used to generate 16,470 and 26,800 KW of electricity. They are both fueled by natural gas or #2 fuel oil with a maximum of 0.4% sulfur. They are each used as peaking units.

Located: County Road 1585, approximately 1/2 mile north of State Road 20, 1 mile south of U.S. 90, 7 miles west of State Capitol, Tallahassee.

### PERMITTEE:

City of Tallahassee

I.D. Number: 10TLH37000302 & 10TLH37000303

Permit/Certification Number: A037-159963

Date of Issue: March 3, 1989

Date of Modification: MAR 16 1989

Expiration Date: March 1, 1994

### GENERAL CONDITIONS:

14. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware 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:

15. The maximum allowable heat input is 221 and 360 million Btu per hour for units #1 and #2 respectively. Compliance with standards shall be demonstrated while the source is operating within 10% of its rated capacity, provided however that testing may be conducted at less than 90% of rated capacity in which case the source's production rate shall be limited to 110% of the capacity at which the test was performed until additional compliance testing is performed.

16. A visible emissions shall be conducted annually in any federal fiscal year. Tests shall be conducted in accordance with EPA Method 9 using #2 fuel oil.

17. The visible emissions test required in condition 16 shall be waived in federal fiscal years ending September 1989 - 1992 for any turbine that is not operated at least 400 hours during a specific year. The test due in 1993 prior to the end of September shall be conducted on each turbine regardless of the number of hours operated. These test results shall be submitted with the application for permit renewal prior to January 1, 1994. The two combustion turbines will be individually treated by all condition of this permit.

18. An annual operation report for each turbine (DER Form 17-1.202(6) attached) shall be submitted by March 1 each year. The attached forms shall be reproduced by the permittee and used for future annual submittals.

19. The permanent source identification numbers for these permit sources are: 10TLH 37000302 Combustion Turbine #1 and 10TLH 37000303 Combustion Turbine #2. Please cite the appropriate numbers on all test reports and other correspondence specific to one of these permitted point sources.

Expiration date:

March 1, 1994

Issued this 3rd day of March, 1989.

Date of Modification: MAR 16 1989

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

ROBERT V. KRIEDEL  
Deputy Assistant Secretary





# Department of Environmental Protection

RECEIVED

JUN 23 1994

ENVIRONMENTAL AFFAIRS

Lawton Chiles  
GovernorNorthwest District  
160 Governmental Center  
Pensacola, Florida 32501-5794Virginia B. Wetherell  
Secretary**PERMITTEE:**City of Tallahassee  
Arvah B. Hopkins Plant

I.D. Number: 10TLH37000302,03  
 Permit/Certification Number: AO37-242824  
 Date of Issue: March 8, 1994  
 Modification Date: June 10, 1994  
 Modification Date: June 24, 1994  
 Expiration Date: March 1, 1999  
 County: Leon *UTM: 8749.66 N-3376.76 Zone 18*  
 Latitude/Longitude: 30°27'08"N/84°24'00"W  
 Project: Hopkins Combustion Turbines 1 & 2

This permit is issued under the provisions of Section 403.087, Florida Statutes, and Florida Administrative Code Rules 17-296, 17-297 and 17-4. The above named applicant, hereinafter called 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:

Operation of combustion turbines 1 and 2 at the Arvah B. Hopkins Plant. These turbines are manufactured by Westinghouse, model numbers W191G and W251G, with heat input rates of 228 and 446 MMBtu/hour, respectively, and are fueled by natural gas or No. 2 fuel oil with a maximum of 0.4% sulfur. The turbines are used as peaking and emergency reserve units during peak demand hours, during emergencies, and during controls testing; and run nominal 16.47 and 26.8 MW generators, respectively.

Located on County Road 1585, approximately ½ mile north of State Road 20, one mile south of U.S. 90, and seven miles west of the State Capitol, in Tallahassee

Specific Condition No. 2 establishes maximum operating and testing rates.

Specific Condition No. 4 establishes maximum allowable emission rates.

Specific Condition No. 5 establishes testing requirements.

Specific Condition No. 6 limits the sulfur content of the fuel oil.

Specific Condition No. 7 requires submission of an annual operation report.

Specific Condition No. 8 requires submission of a Major Air Pollution Source Annual Operation Fee Form.

Specific Condition No. 9 requires submission of a renewal permit application prior to December 31, 1998.

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: AO37-242824  
Date of Issue: March 8, 1994  
Modification Date: June 10, 1994  
Modification Date: June 24, 1994  
Expiration Date: December 31, 1998

## SPECIFIC CONDITIONS:

1. The attached General Conditions are part of this permit.
2. The maximum allowable operating rate for Combustion Turbine 1 is 228 MMBtu/hour (LHV) heat input; for Combustion Turbine 2, 446 MMBtu/hour (LHV) at an ambient temperature of 80 degrees Fahrenheit. Testing of emissions shall be conducted at 95-100% of the permitted rated heat input based on the average ambient air temperature during the test. Data for correcting heat input rates (corrected for temperatures other than 80 degrees Fahrenheit) must be submitted with the compliance test report. If it is impracticable to test at 95-100% of the maximum allowable heat input rate corrected for the average ambient air temperature, then sources may be tested at less than 95% of the maximum allowable heat input. If the source is tested at less than 95% of the maximum allowable heat input, subsequent source operation is limited to 110% of the tested heat input rate corrected for average ambient air temperature until a new test is conducted. Once the unit is so limited, then operation at higher capacity is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit with prior notification to the Department.
3. The maximum hours of operation are 8491 hours/year for Combustion Turbine 1, and 7071 hours/year for Combustion Turbine 2. The Permittee shall maintain an operation log available for Department inspection certifying the total hours of operation annually.

4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>Allowable Emissions</u>
VE	17-296.310(2)	less than 20% opacity

5. Emissions tests for the following pollutants shall be performed annually between July 1 and August 31, in accordance with the test methods and frequency indicated, with notification to the Department 15 days prior to testing. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. For good cause, the Permittee may request an extension of a compliance test due date. However, inadequate planning of testing does not constitute good cause for an extension of the compliance test due date. The test report documentation must be submitted to the Department within 45 days after completion of testing.

<u>Pollutant</u>	<u>Frequency</u>	<u>Test Method</u>
VE	Annually	DEP 9

However, with the following exception, the visible emissions test shall only be required during those federal fiscal years during which the individual turbines operated greater than 400 hours.

A VE test is required in 1998 while operating on fuel oil.

0730003

Unit 9: 0020#  
003 CT#

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: A037-242824  
Date of Issue: March 8, 1994  
Modification Date: June 10, 1994  
Modification Date: June 24, 1994  
Expiration Date: December 31, 1998

## SPECIFIC CONDITIONS:

6. If fueled 100% by oil, the sulfur content of the oil shall not exceed 0.4% sulfur by weight. Records of the fuel oil sulfur content shall be kept and made available for Department inspection.

7. An annual operation report [DEP Form 17-210.900(4) attached] shall be submitted by March 1 each year. The attached form shall be reproduced by the Permittee and used for future annual submittals.

8. In accordance with F.A.C. Rule 17-213, a Major Air Pollution Source Annual Operation Fee Form [DEP Form 17-213.900(11) attached] must be completed and submitted with appropriate fee between January 15 and March 1 of each year. If the Department has not received the fee payment by March 1, the Department shall impose, in addition to the fee, a penalty of 50 percent of the amount of the fee, plus interest on such amount computed in accordance with s.220.807, Florida Statutes. The Department may revoke any major air pollution source operation permit if it finds that the permit holder has failed to pay timely and required annual operation license fee, penalty or interest. The attached form shall be reproduced by the Permittee and used for future annual submittals. The completed form and appropriate fees must be submitted to the Department of Environmental Protection, Title V (Facility I.D. Number), 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

9. An application to renew this permit shall be submitted prior to December 31, 1998.

10. The permanent source identification number for these point sources are:

10TLH37000302 - Combustion Turbine 1  
10TLH37000303 - Combustion Turbine 2

Please cite these numbers on all test reports and other correspondence specific to these permitted point sources.


11. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (904) 444-8300, day or night, and for emergencies involving a significant threat to human health or the environment is (904) 488-1320. For routine business, use telephone number (904) 488-3704 during normal working hours.

Expiration Date:

Modified this 24<sup>th</sup> day of June,  
1994.

March 1, 1999

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
BOBBY A. COOLEY  
District Director

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: A037-242824  
Expiration Date: March 1, 1999

## GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "permit conditions", and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The Permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The Permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the Permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

a. Having access to and copying any records that must be kept under the conditions of this permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,

## PERMITTEE:

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302.03  
Permit/Certification Number: AO37-242824  
Expiration Date: March 1, 1999

## GENERAL CONDITIONS:

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the Permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the Permittee shall immediately provide the Department with the following information:

a. A description of and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The Permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The Permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the Permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The Permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

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

13. The Permittee shall comply with the following:

a. Upon request, the Permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The Permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous

**PERMITTEE:**

City of Tallahassee  
Arvah B. Hopkins Power Plant

I.D. Number: 10TLH37000302,03  
Permit/Certification Number: AO37-242824  
Expiration Date: March 1, 1999

**GENERAL CONDITIONS:**

monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurement;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. When requested by the Department, the Permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the Permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



CITY HALL  
300 S. ADAMS ST.  
TALLAHASSEE, FL  
32301-1731  
904/891-8100  
TDD 1-800/955-8771

PENNY SHAW HERMAN  
Mayor/Commissioner  
SCOTT MADDOX  
Mayor Pro Tem-  
Commissioner

DEBBIE LIGHTSEY  
Commissioner  
STEVE MEISBURG  
Commissioner  
RON H. WEAVER  
Commissioner

DANIEL A. KLEMAN  
City Manager  
ROBERT B. INZER  
City Treasurer-Clerk

JAMES R. ENGLISH  
City Attorney  
RICARDO FERNANDEZ  
City Auditor

February 22, 1995

Jonathan Holtom  
Division of Air Resources Management  
Department of Environmental Protection  
Mail Station 5505  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RECEIVED  
FEB 23 1995

Bureau of  
Air Regulation

2325 MM BTU  
m

Re: Site Certification Modification PA 74-03D for the Arvah B. Hopkins Unit #2 Boiler  
(Emissions Unit ID 10TLH37000304)

Dear Jonathan:

Enclosed is a copy of the Site Certification Modification PA 74-03D issued to the City of Tallahassee on May 18, 1994, for the Arvah B. Hopkins Unit #2 boiler.

If you have any questions regarding the enclosed site certification document please contact me at (904) 891-8851.

Sincerely,

Karl Bauer, PE  
Environmental Engineer

/kb

Enclosure

cc: Jennette Curtis, w/o attachments

jhl0222.doc

certified  
on 5/20/75

Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
CONDITIONS OF CERTIFICATION modified May 18, 1994

Special

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Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
Conditions of Certification modified May 18, 1994

Special

1. Air - Arvah Hopkins Unit No. 2 shall be operated in accordance with Chapters 17-210, 17-212, 17-213, 17-296 and 17-297, F.A.C.

- A. Stack Emissions - Emissions shall be controlled so as not to exceed the appropriate standards specified in Chapter 17-296, F.A.C., and any subsequent amendments, unless excepted by a variance. Emissions of sulfur dioxide from Unit No. 2 shall not exceed 1.4 pounds per million Btu (mmBtu) heat input. Emissions of particulate matter from Unit No. 2 shall not exceed 0.1 pounds per mmBtu heat input when firing fuel oil. No particulate limit shall apply when firing natural gas. The provisions of section 17-210.700, F.A.C., regarding excess emissions are applicable to Unit No. 2.
- B. Stack Height - The stack serving Unit No. 2 shall be not less than 250 feet high.
- C. Conditions for Stack Testing - Testing of emissions shall be conducted with the source operating at permitted capacity. Permitted capacity is defined as 90-100% of the maximum operating rate allowed by this certification. If it is impracticable to test at permitted capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen consecutive days for purposes of additional compliance testing to regain the permitted capacity in the conditions of certification.
- D. Stack Sampling - A suitably installed and accessible stack sampling platform as approved by the Department of Environmental Protection will be provided on

405 (1) 9-d  
20% VE  
0.1 lb PM / mmBtu  
1.87 # SO<sub>2</sub> / mmBtu  
0.3 # NO<sub>x</sub> / mmBtu  
0.3 # PM Avg / mmBtu

the Unit No. 2 stack. Stack Sampling tests for particulates shall be performed annually before the end of the federal fiscal year (September 30th) in conformance with Chapter 17-297, F.A.C, and in conformance with DEP methods or EPA methods 1, 2, 3, and 5 or 17 or as otherwise approved by the Department. In accordance with Rule 17-297.340(1)(c)2., F.A.C., no particulate or visible emission tests shall be required in any federal fiscal year in which the fossil fuel steam generator did not burn fuel oil for more than 400 hours other than during startup. Results of the stack tests shall be submitted to the Northwest District Office of the Department within 45 days after completion of the tests. The City of Tallahassee shall notify the Department at least 15 days prior to the stack test to allow witnessing, whenever possible, of the test. The Department may waive the 15-day notice requirement on a case-by-case basis.

- E. Equipment - Major equipment changes that will affect air emissions or which may have a substantial environmental impact shall be approved by the Department prior to the placing of orders for equipment or the start of construction. Where deemed necessary, an environmental assessment on the effect of the change shall be prepared. (An example of a major change is the installation of flue-gas desulfurization equipment, or conversion of facilities to the use of coal). This condition supplements Standard Condition 1.
- F. Fuel Oil - The sulfur content of fuel oils consumed shall be analyzed and records of such analyses shall be maintained for inspection by the Department.
- G. Annual Reporting - An annual operation report shall be submitted by the City by March 1 of each year utilizing DEP Form 17-210.900(4), F.A.C.

## 2. Water

- A. Effluent Standards - Wastewater discharged from the site shall meet the standards set forth in Chapter 17-302, F.A.C., and any subsequent

amendments, unless excepted by variance. In addition to other treatment processes, the City of Tallahassee may use up to three treatment ponds to meet the standards set forth in Chapter 17-302, F.A.C. The following specific limits are identified:

- a) pH shall be in accord with Chapter 17-302, F.A.C.
- b) Chlorine: Chlorination shall be conducted in such a manner that a chlorine residual in the effluent at County Road 1585 does not exceed 0.01 mg/l.
- c) Phosphorus: The effluent shall not contain phosphorus in amounts greater than 1.65 mg/l, as P.
- d) Sulfate: Hydrochloric acid or sulfuric acid or both may be utilized for pH adjustment and scale control in the cooling tower. Sulfuric acid may be used for resin regeneration and neutralization of the treatment pond effluent. The sulfates as  $\text{SO}_4$  in the final combined effluent at the Point of Discharge (POD) shall not exceed 250 mg/l, as  $\text{SO}_4$ .
- e) Chloride: Chloride shall not exceed 250 mg/l at the POD.
- f) Deleterious Substances: No organic or inorganic substance which is not specifically described in the application shall be added to the effluent.
- g) Temperature: The temperature at the point of discharge shall never exceed 80°F. The POD has been determined by the Department to be where effluent from the plant physically leaves the plant site at County Road 1585.
- h) Copper: Compliance with the water quality criteria shall be measured at the boundary of an 800 meter mixing zone extending from the POD.
- i) The permanent use of a copper corrosion inhibitor, such as Betz DE-1213 (Copper-trol Cu-1) or equivalent, is allowed provided:
  - 1) the discharge concentration of the copper corrosion inhibitor does not exceed 20 mg/l at the POD;
  - 2) treatment will not be more frequent than once per two weeks; and

3) treatment of the towers will be separated by at least one week.

- B. Monitoring - Water quality monitoring shall be performed at the POD. The program shall be approved by the Department. The purpose of the program shall be to measure those chemical parameters that are determined to be most indicative of the effects of the power plant liquid discharges. The City of Tallahassee may periodically request that the Department review the monitoring program. After such review the Department may authorize a reduction or modification of the monitoring program.

# 1. Chemical and Physical Monitoring Program

<u>Name</u>	<u>STORET Code</u>	<u>Reporting Units</u>	<u>Monitoring Point</u>	<u>Frequency</u>
Chlorine, total residual	50060	mg/l	POD	1/M(a)
Oil and Grease	00550	mg/l	POD	1/M
pH, field	00400	pH unit	POD	C(b)
flow rate	50050	mgd	POD	C(b)
Temperature, water	00010	°C	POD	C(b)
Conductivity, adj. to 25°C	00095	micromho	POD	C(b)
Phosphorus, total	00665	mg/l P	POD	1/M
Orthophosphate, total	70507	mg/l P	POD	1/M
Sulfate, total	00945	mg/l SO <sub>4</sub>	POD	1/M
Solids, total dissolved	70300	mg/l	POD	1/M
Oxygen, dissolved	00300	mg/l O <sub>2</sub>	POD	1/M
Iron, total	01045	ug/l Fe	POD	1/Q
Mercury, total	71900	ug/l Hg	POD	1/Q
Chromium, total	01034	ug/l Cr	POD	1/Q
Copper, total	01042	ug/l Cu	MZ	1/Q(c)
Lead, total	01051	ug/l Pb	POD	1/Q

(a) Measured only during periods of chlorination.

(b) Measured continuously at the POD. Estimate daily average from data collected once every hour, and report daily average, daily high and daily low from that data. Also, through November 30, 1995, ambient temperature of cooling tower makeup water (groundwater) shall be obtained daily and reported monthly. Additionally, the City of Tallahassee shall separately conduct a single, one-day study during the summer months (June-September of 1994 or 1995) to examine the intra-day variations in the groundwater temperature used for cooling tower make-up water. Temperature values shall be collected on an hourly basis for a twenty-four hour period. Results of this one day study shall be submitted with the next Monthly Operation Report immediately following the completion of this one day study, with copies submitted to the Office of Siting Coordination and the Bureau of Water Facilities Planning and Regulation. Groundwater temperature data provided pursuant to this paragraph shall be obtained from a cooling tower make-up production well.

(c) MZ (mixing zone) boundary 800 meters downstream of POD.

Testing procedures may be ASTM procedures, Standard Methods, or other methods, as approved by the Department.

- C. Cooling Tower Blowdown - The total discharge from the cooling tower of Unit No. 2 shall not exceed 2.9 cubic feet per second (1,300 gallons per minute). The Permittee shall install and operate a heat exchanger to insure that the cooling tower effluent never exceeds 80°F at the P.O.D.<sup>1</sup>

3. Ground Water Monitoring

Groundwater shall be monitored for the parameters, and in accordance with the frequency described below. Water samples from the well(s) supplying make-up water to the cooling towers shall be taken concurrently with the water samples taken of the receiving stream. Wells not on line at the time of the sampling of the receiving stream may be sampled at other appropriate time intervals. Data shall be provided to the Department on a quarterly basis for the following:

<u>Measurement</u>	<u>Reporting Units</u>	<u>Frequency</u>
Sulfate	mg/l SO <sub>4</sub>	1/M
Chloride	mg/l Cl	1/M
Total Hardness	mg/l CaCO <sub>3</sub>	1/6M
pH	pH units	1/M
M alkalinity	mg/l CaCO <sub>3</sub>	1/6M
Conductivity	micromho	1/M
Solids, Total	mg/l	1/6M

The monitoring program shall be reviewed every two years by the Department.

4. Archeological Sites

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<sup>1</sup> The City of Tallahassee shall install and operate the heat exchanger referenced in Special Condition 2.C. by no later than 12 months after the date of this Order. The City of Tallahassee shall notify the Department when the City has installed the heat exchanger. The modified Conditions of Certification related to thermal discharges and temperature limitations shall be applicable on the 30th day after the City of Tallahassee has filed such notice with the Department.

Efforts shall be made to remove, mark or otherwise protect the archeological values. This shall not apply to the area already occupied by structures or the area upon which foundations for the boiler, generator, cooling tower, and stack are to be located.

5. Site Drainage and Erosion Control

- A. Provision shall be made to control sediment runoff during and after construction, utilizing the latest techniques developed by the DOT/DEP. Sediment and oil traps shall be installed and maintained where necessary to achieve the goals of pollution control.
- B. A control program shall be established by the applicant to provide periodic review of all construction activities to assure protection of the environment.
- C. When new or revised site drainage is undertaken it shall be constructed to minimize the direct effect of runoff from parking areas and other impervious surfaces.

6. Delegation - Modification of Special Provisions

The Department may modify the provisions of the special conditions dealing with sampling, monitoring, reporting, and specifications for control equipment or related time schedules as necessary to attain the objectives of Chapter 403, Florida Statutes, upon mutual agreement with the permittee. Such modifications and agreement shall be in writing. Such modifications will not take effect until after prominent public notice giving a period of thirty (30) days for public review and comment of the Department's intent to modify said special conditions. If requested, the Secretary may provide opportunity for a public hearing on the proposed modifications prior to taking final agency action.

7. Polychlorinated Biphenyl Compounds

There shall be no discharge of polychlorinated biphenyl compounds.

Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
CONDITIONS OF CERTIFICATION modified May 18, 1994  
Standard

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Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
CONDITIONS OF CERTIFICATION modified May 18, 1994

Standard

1. Change in Discharge

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any pollutant identified in this certification more frequent than or at a level in excess of that authorized shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which will result in new, different or increased discharges of pollutants or expansion in steam generating capacity must be reported by submission of a new application.

2. Noncompliance Notification

If, for any reason, the City of Tallahassee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the appropriate district administrator or subdistrict office of the Department by telephone during the working day that said noncompliance occurs and shall confirm this within forty-eight (48) hours of becoming aware of such condition, and shall supply the following information:

- a) A description of the discharge 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 recurrent of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this certification.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Right of Entry

The City of Tallahassee shall allow the Secretary of the Department and/or authorized representatives, upon the presentation of credentials:

- a) To enter upon the permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit; and
- b) To have access to and copy any records required to be kept under the conditions of this certification; and

c) To inspect any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants.

6. Revocation or Suspension

After notice and opportunity for a hearing, this certification may be suspended, or revoked in whole or in part during its terms for cause including, but not limited to, the provision of Section 403.512, Chapter 403, Florida Statutes.

7. Civil and Criminal Liability

Nothing in this certification shall be construed to preclude the institution of any legal action or relieve the permittee from responsibilities, liabilities, or penalties established pursuant to any applicable State Statutes, or Regulation, including Departmental rules and regulations promulgated by the Department pursuant to Chapter 403, F.S.

8. Property Rights

The issuance of this certification does not convey any property rights in either real or personal property, 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.

9. Severability

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of the certification shall not be affected thereby.

10. Certification Period

This certification shall be in perpetuity as to the use as a steam electric generating unit, provided all conditions of certification are complied with, and subject to the Florida Electric Power Plant Siting Law, Section 403.501-403.519 and amendments thereto.

11. Legal Action

Nothing in this certification shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Florida Statute, or regulation, including Departmental rules and regulations promulgated by the Department pursuant to Chapter 403, Florida Statutes.

12. Unforeseen Circumstances

Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the certification application, the applicant shall provide both telephone and written notification to the Department. This shall include unexpected harmful effects or evidence of irreversible damage, not previously identified.

CITY OF TALLAHASSEE  
ELECTRIC DEPARTMENT  
ENVIRONMENTAL AFFAIRS OFFICE  
ROUTE 4, BOX 448  
TALLAHASSEE, FLORIDA 32304

RECEIVED

FEB 22 1995

Bureau of  
Air Regulation

## FAX COVER

Office: (904)891-5890  
Fax: (904)891-5899  
Office Hours: 7:30 AM - 4:00 PM

FROM: Karl Bauer

TO: JONATHAN HUTTON (FDER)

DATE: FEBRUARY 22, 1995

Number of Pages (including cover sheet). 5

## MESSAGE:

ATTACHED ARE SITE CERTIFICATION PA-74-03D  
PAGES REGARDING AIR EMISSION CONDITIONS.  
THE ENTIRE CONTENTS OF PA-74-03D CONSIST  
OF APPROXIMATELY 18 PAGES. PLEASE CONTACT ME  
IF YOU WOULD LIKE A COPY OF THE ENTIRE  
CONTENTS.

A handwritten signature, likely of Karl Bauer, written in ink.

Receiving problems contact Kim

*Rev'd 6/13/94*

Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
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Florida Department of Environmental Protection  
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case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen consecutive days for purposes of additional compliance testing to regain the permitted capacity in the conditions of certification.

- D. Stack Sampling - A suitably installed and accessible stack sampling platform as approved by the Department of Environmental Protection will be provided on the Unit No. 2 stack. Stack Sampling tests for particulates shall be performed annually before the end of the federal fiscal year (September 30th) in conformance with Chapter 17-297, F.A.C., and in conformance with DEP methods or EPA methods 1, 2, 3, and 5 or 17 or as otherwise approved by the Department. In accordance with Rule 17-297.340(1)(c)2., F.A.C., no particulate or visible emission tests shall be required in any federal fiscal year in which the fossil fuel steam generator did not burn fuel oil for more than 400 hours other than during startup. Results of the stack tests shall be submitted to the Northwest District Office of the Department within 45 days after completion of the tests. The City of Tallahassee shall notify the Department at least 15 days prior to the stack test to allow witnessing, whenever possible, of the test. The Department may waive the 15-day notice requirement on a case-by-case basis.



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- F. Fuel Oil - The sulfur content of fuel oils consumed shall be analyzed and records of such analyses shall be maintained for inspection by the Department.
- G. Annual Reporting - An annual operation report shall be submitted by the City by March 1 of each year utilizing DEP Form 17-210.900(4), F.A.C.

2. Water

- A. Effluent Standards - Wastewater discharged from the site shall meet the standards set forth in Chapter 17-302, F.A.C., and any subsequent amendments, unless excepted by variance. In addition to other treatment processes, the City of Tallahassee may use up to three treatment ponds to meet the standards set forth in Chapter 17-302, F.A.C. The following specific limits are identified:
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Rev 6/13/94

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- e) Chloride: Chloride shall not exceed 250 mg/l at the POD.
- f) Deleterious Substances: No organic or inorganic substance which is not specifically described in the application shall be added to the effluent.
- g) Temperature: The temperature at the point of discharge shall never exceed 80°F. The POD has been determined by the Department to be where effluent from the plant physically leaves the plant site at County Road 1585.
- h) Copper: Compliance with the water quality criteria shall be measured at the boundary of an 800 meter mixing zone extending from the POD.

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- 1) the discharge concentration of the copper corrosion inhibitor does not exceed 20 mg/l at the POD;
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Conductivity, adj. to 25°C	00095	micromho	POD	C(b)
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Orthophosphate, total	70507	mg/l P	POD	1/M
Sulfate, total	00945	mg/l SO <sub>4</sub>	POD	1/M
Solids, total dissolved	70300	mg/l	POD	1/M
Oxygen, dissolved	00300	mg/l O <sub>2</sub>	POD	1/M
Iron, total	01045	ug/l Fe	POD	1/Q
Mercury, total	71900	ug/l Hg	POD	1/Q
Chromium, total	01034	ug/l Cr	POD	1/Q
Copper, total	01042	ug/l Cu	MZ	1/Q(c)
Lead, total	01051	ug/l Pb	POD	1/Q

(a) Measured only during periods of chlorination.

(b) Measured continuously at the POD. Estimate daily average from data collected once every hour, and report daily average, daily high and daily low from that data. Also, through November 30, 1995, ambient temperature of cooling tower makeup water (groundwater) shall be obtained daily and reported monthly. Additionally, the City of Tallahassee shall separately conduct a single, one-day study during the summer months (June-September of 1994 or 1995) to examine the intra-day variations in the groundwater temperature used for cooling tower make-up water. Temperature values shall be collected on an hourly basis for a twenty-four hour period. Results of this one day study shall be submitted with the next Monthly Operation Report immediately following the completion of this one day study, with copies submitted to the Office of Siting Coordination and the Bureau of Water Facilities Planning and Regulation. Groundwater temperature data provided pursuant to this paragraph shall be obtained from a cooling tower make-up production well.

(c) MZ (mixing zone) boundary 800 meters downstream of POD. Testing procedures may be ASTM procedures, Standard Methods, or other methods, as approved by the Department.



C. Cooling Tower Blowdown - The total discharge from the cooling tower of Unit No. 2 shall not exceed 2.9 cubic feet per second (1,300 gallons per minute). The Permittee shall install and operate a heat exchanger to insure that the cooling tower effluent never exceeds 80°F at the P.O.D.<sup>1</sup>

3. Ground Water Monitoring

Groundwater shall be monitored for the parameters, and in accordance with the frequency described below. Water samples from the well(s) supplying make-up water to the cooling towers shall be taken concurrently with the water samples taken of the receiving stream. Wells not on line at the time of the sampling of the receiving stream may be sampled at other appropriate time intervals. Data shall be provided to the Department on a quarterly basis for the following:

<u>Measurement</u>	<u>Reporting Units</u>	<u>Frequency</u>
Sulfate	mg/l SO <sub>4</sub>	1/M
Chloride	mg/l Cl	1/M
Total Hardness	mg/l CaCO <sub>3</sub>	1/6M
pH	pH units	1/M
M alkalinity	mg/l CaCO <sub>3</sub>	1/6M
Conductivity	micromho	1/M
Solids, Total	mg/l	1/6M

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<sup>1</sup> The City of Tallahassee shall install and operate the heat exchanger referenced in Special Condition 2.C. by no later than 12 months after the date of this Order. The City of Tallahassee shall notify the Department when the City has installed the heat exchanger. The modified Conditions of Certification related to thermal discharges and temperature limitations shall be applicable on the 30th day after the City of Tallahassee has filed such notice with the Department.

The monitoring program shall be reviewed every two years by the Department.

4. Archeological Sites

Efforts shall be made to remove, mark or otherwise protect the archeological values. This shall not apply to the area already occupied by structures or the area upon which foundations for the boiler, generator, cooling tower, and stack are to be located.

5. Site Drainage and Erosion Control

- A. Provision shall be made to control sediment runoff during and after construction, utilizing the latest techniques developed by the DOT/DEP. Sediment and oil traps shall be installed and maintained where necessary to achieve the goals of pollution control.
- B. A control program shall be established by the applicant to provide periodic review of all construction activities to assure protection of the environment.
- C. When new or revised site drainage is undertaken it shall be constructed to minimized the direct effect of runoff from parking areas and other impervious surfaces.

6. Delegation - Modification of Special Provisions

The Department may modify the provisions of the special conditions dealing with sampling, monitoring, reporting, and specifications for control equipment or related time schedules as necessary to attain the objectives of Chapter 403, Florida Statutes, upon mutual agreement with the permittee. Such modifications and agreement shall be in writing. Such modifications will not take effect until after prominent

public notice giving a period of thirty (30) days for public review and comment of the Department's intent to modify said special conditions. If requested, the Secretary may provide opportunity for a public hearing on the proposed modifications prior to taking final agency action.

7. Polychlorinated Biphenyl Compounds

There shall be no discharge of polychlorinated biphenyl compounds.

Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
CONDITIONS OF CERTIFICATION modified May 18, 1994

Standard

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Florida Department of Environmental Protection  
City of Tallahassee  
Arvah B. Hopkins Power Plant Site Certification Unit 2  
Case No. PA 74-03D  
CONDITIONS OF CERTIFICATION modified May 18, 1994

Standard

1. Change in Discharge

All discharges or emissions authorized herein shall be consistent with the terms and conditions of this certification. The discharge of any pollutant identified in this certification more frequent than or at a level in excess of that authorized shall constitute a violation of the certification. Any anticipated facility expansions, production increases, or process modifications which will result in new, different or increased discharges of pollutants or expansion in steam generating capacity must be reported by submission of a new application.

2. Noncompliance Notification

If, for any reason, the City of Tallahassee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the appropriate district administrator or subdistrict office of the Department by telephone during the working day that said noncompliance occurs and shall confirm this within forty-eight (48) hours of becoming aware of such condition, and shall supply the following information:

- a) A description of the discharge 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 recurrent of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this certification.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Right of Entry

The City of Tallahassee shall allow the Secretary of the Department and/or authorized representatives, upon the presentation of credentials:

a) To enter upon the permittee's premises where an effluent source is located or in which records are required to be kept under the terms and conditions of this permit; and

b) To have access to and copy any records required to be kept under the conditions of this certification; and

c) To inspect any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants.

6. Revocation or Suspension

After notice and opportunity for a hearing, this certification may be suspended, or revoked in whole or in part during its terms for cause including, but not limited to, the provision or Section 403.512, Chapter 403, Florida Statutes.

7. Civil and Criminal Liability

Nothing in this certification shall be construed to preclude the institution of any legal action or relieve the permittee from responsibilities, liabilities, or penalties established pursuant to any applicable State Statutes, or Regulation, including Departmental rules and regulations promulgated by the Department pursuant to Chapter 403, F.S.

8. Property Rights

The issuance of this certification does not convey any property rights in either real or personal property, 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.

9. Severability

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstances, is held invalid, the

application of such provision to other circumstances, and the remainder of the certification shall not be affected thereby.



10. Certification Period

This certification shall be in perpetuity as to the use as a steam electric generating unit, provided all conditions of certification are complied with, and subject to the Florida Electric Power Plant Siting Law, Section 403.501-403.519 and amendments thereto.

11. Legal Action

Nothing in this certification shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Florida Statute, or regulation, including Departmental rules and regulations promulgated by the Department pursuant to Chapter 403, Florida Statutes.

12. Unforeseen Circumstances

Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the certification application, the applicant shall provide both telephone and written notification to the Department. This shall include unexpected harmful effects or evidence of irreversible damage, not previously identified.

Edm  
5/27

file

RECEIVED

MAY 18 1994

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTIONBureau of  
Air RegulationIN RE: SITE CERTIFICATION,  
ARVAH B. HOPKINS GENERATING  
STATION, UNIT 2,  
CITY OF TALLAHASSEE

CERTIFICATION NO. PA 74-03 DEIVED

MAY 26 1994

FINAL ORDER MODIFYING  
CONDITIONS OF CERTIFICATIONNorthwest Florida  
DEP

On May 20, 1975, the Florida Pollution Control Board acting as the Siting Board, issued a final order approving certification for the City of Tallahassee's Arvah B. Hopkins Generating Station. That certification order approved the construction and operation of an oil fired/natural gas fired, steam-electric generating facility and associated facilities to be located in Leon County, Florida.

On June 21, August 16, November 5, and December 16, 1993, the City of Tallahassee filed requests to modify the conditions of certification pursuant to section 403.516(1)(b), Florida Statutes (F.S.). The City of Tallahassee requested that the conditions be modified to approve several recently identified changes to the plant design and operation. These proposed changes include reducing SO<sub>2</sub> emission rates to ensure compliance with applicable ambient air quality standards, revising thermal discharge standards and monitoring requirements to reflect the use of a new heat exchanger, updating statutory and regulatory references, allowing use of corrosion control inhibitors, and allowing the use of sulfuric acid for pH

adjustment. The City of Tallahassee submitted revised language for the conditions of certification to address the proposed changes.

On April 8, 1994, Notice of Proposed Modification of Power Plant Certification regarding the proposed modifications was published in the Florida Administrative Weekly. As of April 1, 1994, all of the parties to the original proceeding had received copies of the intent to modify. The notice specified that a hearing would be held if a party to the original certification hearing objects within 45 days from receipt of the proposed notice of modification or if a person whose substantial interests will be affected by the proposed modification objects in writing within 30 days after issuance of the public notice. Written objections to the proposed modifications were not received and a hearing was not requested.

Accordingly, in the absence of any dispute,  
**IT IS ORDERED THAT:**

The proposed changes to the Hopkins Generating Station described in the June 21, August 16, November 5, and December 16, 1993, requests for modification, are approved based on the absence of any written objections. The Department hereby approves the requested modifications, and, pursuant to section 403.516(1)(b), F.S., the Department hereby modifies the conditions of certification for the Arvah B. Hopkins Generating Station as follows:

Special Conditions

1. Air - Arvah Hopkins Unit No. 2 shall be operated in accordance with Chapters 17-210, 17-212, 17-213, 17-296 and 17-297, F.A.C.

A. Stack Emissions - Emissions shall be controlled so as not to exceed the appropriate standards specified in Chapter 17-296, F.A.C., and any subsequent amendments, unless excepted by a variance. Emissions of sulfur dioxide from Unit No. 2 shall not exceed 1.4 pounds per million Btu (mmBtu) heat input. Emissions of particulate matter from Unit No. 2 shall not exceed 0.1 pounds per mmBtu heat input when firing fuel oil. No particulate limit shall apply when firing natural gas. The provisions of Rule 17-210.700, F.A.C., regarding excess emissions are applicable to Unit No 2.

B. (No change.)

17-297 PAC  
Stack Height

C. Conditions for Stack Testing - Testing of emissions shall be conducted with the source operating at permitted capacity. Permitted capacity is defined as 90-100% of the maximum operating rate allowed by this certification. If it is impracticable to test at permitted capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen consecutive days for purposes of additional compliance testing to regain the permitted capacity in the conditions of certification. Stack-Monitoring---monitoring-equipment-as

~~approved-by-the-Department-of-Environmental-Regulation-shall-be  
provided-and-operated-on-the-unit-2-stack-in-accordance-with  
Section-17-2-7107-F.A.C.~~

D. Stack Sampling - A suitably installed and accessible stack sampling platform as approved by the Department of Environmental Protection Regulation will be provided on the Unit No. 2 stack. Stack Sampling tests for particulates shall be performed annually before the end of the federal fiscal year (September 30th) December in conformance Chapter 17-297 ~~17-2-700~~, F.A.C., and in conformance with DER methods or EPA Methods 1, 2, 3, and 5 or 17 or as otherwise approved by the Department. In accordance with Rule 17-297.340(1)(c)2., F.A.C., no particulate or visible emission tests shall be required in any federal fiscal year in which the fossil fuel steam generator did not burn fuel oil for more than 400 hours other than during startup. Results of the stack tests shall be submitted to the Northwest District Office of the Department within 45 days after completion of the tests. The City of Tallahassee shall notify the Department at least 15 days prior to the stack test ~~whenever possible~~ to allow witnessing, whenever possible, of the test. The Department may waive the 15-day notice requirement on a case-by-case basis.

E. Equipment - (No change.)

~~F.--Any-ambient-air-quality-monitoring-data-collected-by  
the-City-may-be-reported-to-the-Department.--Data-from-such  
samples-collected-every-sixth-day-and-reported-to-the  
Department-should-be-submitted-on-a-monthly-basis-utilizing-the~~

SAR9AB-format-

G F. Fuel Oil - The sulfur content of fuel oils consumed shall be analyzed and records of such analyses shall be maintained for inspection by the Department.

H G. Annual Reporting - An annual operation report shall be submitted by the City by March 1 of each year utilizing DER Form 17-210.900(4), F.A.C. ~~17-1-122(44)-~~

2. Water

A. Effluent Standards - Wastewater discharged from the site shall meet the standards set forth in Chapter 17-302, F.A.C., and any subsequent amendments, unless excepted by variance. In addition to other treatment processes, the City of Tallahassee may use up to three treatment ponds to meet the standards set forth in Chapter 17-302, F.A.C. The following specific limits are identified:

a) pH shall be in accord with Chapter 17-302, F.A.C.  
b) Chlorine: Chlorination shall be conducted in such a manner that a chlorine residual in the effluent at County Road 1585 260 does not exceed 0.01 mg/l.

c) Phosphorus: The effluent shall not contain phosphorus in amounts greater than 1.65 mg/l, as P<sub>7</sub> ~~for-the first-year-of-operation.--This-phosphorus-limitation-may-be continued-or-reduced-by-the-Department-to-0.33-mg/l-as-P<sub>7</sub> based-upon-results-of-monitoring-data-provided-to-the Department-by-the-applicant-concerning-the-effects-of-this phosphorus-on-the-receiving-waters.~~

d) Sulfate: Hydrochloric acid or sulfuric acid or both

may be utilized for pH adjustment and scale control in the cooling tower. Sulfuric acid may be used for resin regeneration and neutralization of the treatment pond effluent. The sulfates as SO<sub>4</sub> in the final combined effluent at the Point of Discharge (POD) shall not exceed 250 mg/l, as SO<sub>4</sub> in-amounts ~~greater-than-a-six-fold-concentration-of-sulfate-naturally occurring-in-well-water,-but-not-to-exceed-250-mg/l,-as-SO<sub>4</sub>.~~ Should-the-applicant-provide-scientific-data-which-demonstrates to-the-satisfaction-of-the-Department-that-sulfate-will-not degrade-the-receiving-waters,-sulfuric-acid-may-then-be-used for-scale-control-and-pH-adjustment-upon-approval-by-the Department---The-Department-shall-provide-public-notice,-a 30-day-period-for-the-submittal-of-public-comments,-and-a public-hearing-if-requested,-prior-to-any-approval-by-the Department-of-said-sulfuric-acid-for-scale-control-and-pH adjustment-in-the-cooling-tower-

e) (No change.)

f) (No change.)

g) Temperature: The temperature at the point of discharge shall never exceed 80°F. ~~meet-the-requirements-of paragraph-17-3-05(3)(d)(i)-F.A.C.~~ The POD has been determined by the Department to be where effluent from the plant physically leaves the plant site at County Road 1585 260.

h) Copper: Compliance with the water quality criteria shall be measured at the boundary of an 800 meter mixing zone extending from the POD.

i) The permanent use of a copper corrosion inhibitor.

such as Betz DE-1213 (Copper-trol Cu-1) or equivalent, is allowed provided:

1) the discharge concentration of the copper corrosion inhibitor does not exceed 20 mg/l at the POD;

2) treatment will not be more frequent than once per two weeks; and

3) treatment of the towers will be separated by at least one week.

B. Monitoring - Water quality monitoring shall be performed at the POD on-the-receiving-stream, Ochlockonee River-and-Lake-Talquin. The program shall be approved by the Department. The purpose of the program shall be to measure those chemical ~~and-biological~~ parameters that are determined to be most indicative of the effects of the power plant liquid discharges. ~~Included-shall-be-sampling-in-the-receiving-waters mentioned-here, on-the-basis-specified-by-the-attached biological-monitoring-programs.~~ The City of Tallahassee permittee may periodically request that the Department review the monitoring programs. After such review the Department may authorize a reduction or modification of the ~~these~~ monitoring programs. ~~Refer-to-attached-Figure-1-for-station-descriptions.~~ (Figure 1 deleted.)

1- Biological-Monitoring-Program

<u>Parameter</u>	<u>Station-No.</u>	<u>No.-Relicates and-Frequency</u>
Phytoplankton-(1)	2	2/Q
Benthic-Macroinvertebrates-(2)	2	3/Q



Periphyton-(3)

2

4/0

{1}--Phytoplankton---counts-and-identification

{2}--Benthic-Macroinvertebrates---counts-and-identification

{3}--Periphyton---counts-and-identification

1. 2- Chemical and Physical Monitoring Program\*

Name Measurement	STORET Code	Reporting Units	Monitoring Point Station Numbers	Frequency
Chlorine, total residual	50060	mg/l	POD ±	1/M(a)
Oil and Grease	00550	mg/l	POD ±	1/M
pH, field	00400	pH unit	POD ±	C(b)
flow rate	50050	mgd	POD ±	C(b)
Temperature, water	00010	°C	POD ±	C(b)
Conductivity, adj. to 25°C	00095	micromho	POD ±	C(b)
pH <sub>7</sub> -field-----	00400-----	pH-unit-----	2-----	1/0
Temperature <sub>7</sub> -water--	00010-----	°C-----	2-----	1/0
Conductivity <sub>7</sub> -----	00095-----	micromho-----	2-----	1/0
adj <sub>7</sub> -to-25°				
Phosphorus, total	00665	mg/l P	POD ± 2	1/M
Orthophosphate, total	70507	mg/l P	POD ± +2	1/M
Sulfate, total	00945	mg/l SO <sub>4</sub>	POD ± 2	1/M
Sulfide <sub>7</sub> -total-----	00745-----	mg/l-S-----	2-----	1/M
Chloride, total	00940	mg/l Cl	POD ± 2	1/M
Solids, total dissolved	70300	mg/l	POD ±	1/M

<u>Name Measurement</u>	<u>STORET</u>	<u>Reporting</u>	<u>Monitoring Point</u>	<u>Frequency</u>
	<u>Code</u>	<u>Units</u>	<u>Station</u>	
			<u>Numbers</u>	
Oxygen, dissolved	00300	mg/l O <sub>2</sub>	<u>POD</u> ± 2	1/M
Iron, total	01045	ug/l Fe	<u>POD</u> ±	1/Q
Mercury, total	71900	ug/l Hg	<u>POD</u> ±	1/Q
Chromium, total	01034	ug/l Hg <u>Cr</u>	<u>POD</u> ±	1/Q
Copper, total	01042	ug/l Cu	<u>MZ</u> ±	1/Q(c)
Lead, total	01051	ug/l Pb	<u>POD</u> ±	1/Q

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**\*--Substantially-revised**

a) (No change.)

b) Measured continuously at the POD Station-No--1.

Estimate daily average from data collected once every hour  
record, and report daily average, daily high and, daily low from  
that data. Also, through November 30, 1995, ambient temperature  
of cooling tower makeup water (groundwater) shall be obtained  
daily and reported monthly. Additionally, the City of  
Tallahassee shall separately conduct a single, one-day study  
during the summer months (June-September of 1994 or 1995) to  
examine the intra-day variations in the groundwater temperature  
used for cooling tower make-up water. Temperature values shall  
be collected on an hourly basis for a twenty-four hour period.  
Results of this one day study shall be submitted with the next  
Monthly Operation Report immediately following the completion of  
this one day study, with copies submitted to the Office of

Siting Coordination and the Bureau of Water Facilities Planning and Regulation. Groundwater temperature data provided pursuant to this paragraph shall be obtained from a cooling tower make-up production well.

(c) MZ (mixing zone) boundary 800 meters downstream of POD.

Testing procedures may be ASTM procedures, Standard Methods, or other methods, as approved by the Department.

C. Cooling Tower Blowdown - The total discharge from the cooling tower of Unit No. 2 shall not exceed 2.9 ~~2-3~~ cubic feet per second (1,300 ~~±000~~ gallons per minute) ~~and shall be from the cold-side.~~ The City of Tallahassee shall install and operate a heat exchanger to insure that the cooling tower effluent never exceeds 80°F at the POD.<sup>1</sup>

### 3. Ground Water Monitoring

Groundwater shall be monitored for the parameters, and in accordance with the frequency described below. Water samples from the well(s) supplying make-up water to the cooling towers shall be taken concurrently with the water samples taken of the receiving stream. Wells not on line at the time of the sampling of the receiving stream may be sampled at other appropriate time

---

1. The City of Tallahassee shall install and operate the heat exchanger referenced in Special Condition 2.C. by no later than 12 months after the date of this Order. The City of Tallahassee shall notify the Department when the City has installed the heat exchanger. The modified Conditions of Certification related to thermal discharges and temperature limitations shall be applicable on the 30th day after the City of Tallahassee has filed such notice with the Department.

intervals. Data shall be provided to the Department~~7-and-the~~  
~~Northwest-Florida-Water-Management-District~~ on a quarterly basis  
for the following:

MEASUREMENT	REPORTING UNITS	FREQUENCY
Sulfate	mg/l SO <sub>4</sub>	1/M
Chloride	mg/l Cl	1/M
Total Hardness	mg/l CaCO <sub>3</sub>	1/6M
pH	pH units	1/M
M alkalinity	mg/l CaCO <sub>3</sub>	1/6M
Conductivity	micromho	1/M <del>Total</del>
<u>Solids, Total</u>	mg/l	1/6M

The monitoring program shall be reviewed every two years by  
~~with-the~~ Department ~~and-submitted-to-the-Northwest-Florida-Water~~  
~~Management-District-for-concurrence.~~

4. (No change.)

5. Site Drainage and Erosion Control

A. Provision shall be made to control sediment runoff during and after construction, utilizing the latest techniques developed by the DOT/DEP BER. ~~The-environmental~~  
~~control-ordinances-of-the-City-of-Tallahassee-shall-be-complied~~  
~~with-~~ Sediment and oil traps shall be installed and maintained where necessary to achieve the goals of pollution control.

B. (No change.)

C. (No change.)

6. (No change.)

7. (No change.)

Standard Conditions

1. (No change.)

2. Noncompliance Notification

If, for any reason, the City of Tallahassee permittee does not comply with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the appropriate district regional administrator or subdistrict subregional office of the Department . . . .

3-4. (No change.)

5. Right of Entry

The City of Tallahassee permittee shall allow the Director Secretary of the Florida Department of Pollution-Control and/or authorized representatives, upon the presentation of credentials: . . . .

6-9. (No change.)

10. Certification Period

This certification shall be in perpetuity as to the use as a steam electric generating unit, provided all conditions of certification are complied with, and subject to the Florida Electric Power Plant Siting Law, Sections 403.501 - 403.51~~95~~ and amendments thereto.

11. (No change.)

12. (No change.)

NOTICE OF RIGHTS

Any party to this Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department of Environmental Protection in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 10th day of May, 1994 in Tallahassee, Florida.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

[Signature] Clerk 5/18/94 Date

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

[Signature]  
VIRGINIA B. WETHERELL  
Secretary

Marjory Stoneman Douglas Bldg.  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000  
Telephone: (904) 488-4805

CERTIFICATE OF SERVICE

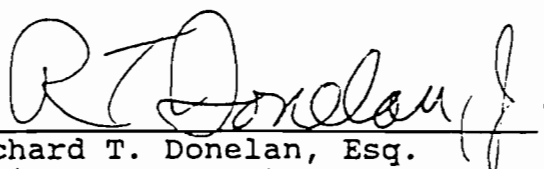
I HEREBY CERTIFY that a copy of the foregoing was sent by U.S.  
Mail to the following this 18th day of May, 1994.

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Florida Department of Pollution-Control Environmental Regulation

City of Tallahassee

Arvah B. Hopkins Electric Power Plant Site Certification Unit 2

Case No. PA-74-03

Conditions of Certification modified (10/27/86)Special

1. Air - Arvah Hopkins Unit No. 2 shall be operated in accordance with Chapter 17-2, FAC.

A. Stack Emissions - Emissions shall be controlled so as not to exceed the appropriate standards specified in Chapter 17-2, F.A.C., and any subsequent amendments, unless excepted by a variance.

B. Stack Height - The stack serving Unit No. 2 shall be not less than 250 feet high.

C. Stack Monitoring - Monitoring equipment as approved by <sup>the</sup> Department of Environmental Regulation shall be <sup>provided and</sup> ~~provided~~ operated on the Unit 2 stack for: in accordance with Section 17-2.710, FAC, for:

-a) Opacity

-b) Nitrogen-oxides

D. Stack Monitoring-Platform <sup>Sampling</sup> - A suitable installed and accessible stack sampling platform as approved by <sup>the</sup> Department of Environmental Regulation will be provided on the Unit No. 2 stack. <sup>(See attachment for modification October 5, 1984)</sup>

E. Equipment - Major equipment changes that will affect air emissions or which may have a substantial environmental impact shall be approved by the Department prior to placing of orders for equipment or the start of construction. Where deemed necessary, an environmental assessment on the effect of the change shall be prepared. (An example of a major changes is the installation of flue-gas desulfurization equipment, or



- 1.D. Stack Sampling tests for particulates shall be performed annually before the end of December in conformance with Section 17-2.700, FAC, and in conformance with DER methods or EPA Methods 1, 2, 3, and 5 or 17 or as otherwise approved by the Department. Results of the stack tests shall be submitted to the Northwest District Office of the Department within 45 days after completion of the tests. The City shall notify the Department at least 15 days prior to the test, whenever possible, to allow witnessing of the test.

conversion of facilities to the use of coal). This condition supplements Standard Condition 1.

- F. Ambient Air Monitoring - ~~At least one sulfur dioxide monitoring units shall be operated at one of the locations identified in the letter from Environmental Science and Engineering, Inc., dated September 30, 1974, and appended hereto, and approved by the Department of Pollution Control Environmental Regulation. Samples shall be collected every sixth day and shall be reported to the Department quarterly by the last day of the month following the quarterly reporting period, utilizing the SAROAD or other format approved by the results furnished monthly to the Department.~~
- G. Fuel Oil - The sulfur content of fuel oils consumed shall be analyzed and records of such analyses shall be maintained for inspection by the Department.
- H. Control of Sulfur Dioxide - ~~A plan to provide the latest reason-ably-available-control-technology (RACT) for control of sulfur dioxide (SO<sub>2</sub>) shall be submitted within 18 months of date of site certification.~~
- H. Annual Reporting - An annual operation report shall be submitted by the City by March 1 of each year utilizing DER Form 17-1.122(44).

2. Water

- A. Effluent Standards - Wastewater discharged from the site shall meet the standards set forth in Chapter 17-3, F.A.C., and any subsequent amendments, unless excepted by variance. The following specific limits are identified:
- a) pH shall be in accord with Chapter 17-3, F.A.C.
- b) Chlorine: Chlorination shall be conducted in such a manner that a chlorine residual in the effluent at County Road 260 is not detectable by the analytical methodology specified in 40 CFR Part 136. does not exceed 0.01 mg/l.

ATTACHMENT

- 1.F. Any ambient air quality monitoring data collected by the City may be reported to the Department. Data from such samples shall be collected every sixth day and shall be reported to the Department quarterly by the last day of the month following the quarterly reporting period should be submitted on a monthly basis utilizing the SAROAD format. approved by the Department.

C. Cooling Tower Blowdown - The total discharge from the cooling tower of Unit No. 2 shall not exceed 2.3 cubic feet per second (1000 gallons per minute) and shall be from the cold side. ~~-A-cooling-area-shall-be-provided-using-the-natural-terrain-on-the-plant-site-located-east-of-the-point-of-discharge-(P.O.D.)-and-is-identified-by-the-shaded-area-of-the-attached-map-(Figure-2).--Said-cooling-area-shall-be-of-such-size-as-to-provide-2.5-acres-of-naturally-shaded-surface-area-or-such-other-shaded-surface-area-as-may-be-necessary-to-insure-that-the-cooling-tower-effluent-will-continuously-comply-with-the-requirements-of-paragraph-17-4.05(3)-(d)(i)-F.A.C.-at-the-P.O.D.-~~

3. Ground Water Monitoring

Groundwater monitoring shall be implemented, monitored at least 12-months-prior-to-operation-of-Unit-No.-2. for the parameters, and in accordance with the frequency, described below. Water samples from the well(s) supplying make-up water to the cooling towers shall be taken concurrently with the water samples taken of the receiving stream. Wells not on line at the time of the sampling of the receiving stream may be sampled at other appropriate time intervals. Unless-problems-are-suspected,-two-wells-shall-be measured-semi-annually-and-the Data shall be provided reported to the Department, and the Northwest Florida Water Management District on a quarterly basis for the following:

<u>Measurement</u>	<u>Reporting Units</u>	<u>Frequency</u>
Sulfate	mg/l SO <sub>4</sub>	1/M
Chloride	mg/l Cl	1/M
Total Hardness	mg/l CaCO <sub>3</sub>	1/6 mo.
pH	pH units	1/M

mental assessment on the effect of the change shall be prepared. (An example of a major change is the installation of flue gas desulfurization equipment, or conversion of facilities to the use of coal). This condition supplements Standard Condition 1.

F. Ambient Air Monitoring - At least one sulfur dioxide monitoring unit shall be operated at one of the locations identified in letter from Environmental Science and Engineering, Inc., dated September 30, 1974, and approved by the Department of Pollution Control. Samples shall be collected every sixth day and the results furnished monthly to the Department.

G. Fuel Oil - The sulfur content of fuel oil consumed shall be analyzed and records of such analysis shall be maintained for inspection by the Department.

H. Control of Sulfur Dioxide - A plan to provide the latest reasonably available control technology (LRACT) for control of sulfur dioxide ( $\text{SO}_2$ ) shall be submitted within 18 months of date of site certification.

## 2. Water

A. Effluent Standards - Wastewater discharged from the site shall meet the standards set forth in Chapter 17-3, FAC, and any subsequent amendments, unless excepted by a variance. The following specific limits are identified:

BEST AVAILABLE COPY

Florida Department of Pollution Control  
City of Tallahassee  
Arvah D. Hopkins Electric Power Plant Site Certification Unit 2  
Case No. FA-74-63  
CONDITIONS OF CERTIFICATION

Special

I. Air

- A. Stack Emissions - Emissions shall be controlled so as not to exceed the appropriate standards specified in Chapter 17-2, F.A.C. and any subsequent amendments, unless excepted by a variance.
- B. Stack Height - The stack serving Unit No. 2 shall be not less than 250 ft. high.
- C. Stack Monitoring - Monitoring equipment as approved by Department of Pollution Control shall be provided on the Unit No. 2 stack for:
  - a) Opacity
  - b) Nitrogen oxides
- D. Stack Monitoring Platform - A suitably installed and accessible sampling platform as approved by Department of Pollution Control will be provided on the Unit No. 2 stack.
- E. Equipment - Major equipment changes that will affect air emissions or which may have a substantial environmental impact shall be approved by the Department prior to the placing of orders for equipment or the start of construction. Where deemed necessary, an environ-