

**BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

|                                                                                                                                                                                      |                                                                      |
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| In Re: City of Tallahassee )<br>Arvah B. Hopkins Power Plant )<br>Request for Modification of )<br>Conditions of Certification )<br>PA 74-03H )<br>Leon County, Florida )<br>_____ ) | DEP CASE NO. PA74-03H<br>OGC CASE NO. 00-1374<br><br>DEP 0 1-0 0 0 3 |
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**FINAL ORDER MODIFYING  
CONDITIONS OF CERTIFICATION**

On May 20, 1975, the Florida Pollution Control Board, sitting 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 power plant and associated facilities located in Leon County, Florida. The certification was modified on June 27, 1977; May 30, 1979; October 5, 1984; October 24, 1986; October 21, 1987; June 6, 1990; and May 18, 1994.

On November 7, 1997, the Department of Environmental Protection (Department) renewed Industrial Wastewater Facility Permit No. FL0025518 for the Hopkins Power Plant. On May 12, 2000, the City requested that the Certification be modified to conform the Conditions for the above referenced facility to the revised Industrial Wastewater Facility Permit. Section 62-17.211(4), F.A.C., requires that the Department modify conditions of certification to conform to any subsequently issued Department permit under a federally delegated or approved permit program so long as no state rule exists which conflicts or is more stringent than the provisos of the federal permits. In conjunction with the Industrial Wastewater based changes, the Department also intends to update the rule citations, and add a provision for modification of the Conditions of Certification in order to conform them to any subsequently issued federally delegated or approved program permit.

On August 11, 2000, copies of the proposed modifications were made available for public review and all parties to the original proceeding were furnished with a copy of the Notice of Intent to Issue Proposed Modification of Power Plant Certification and with

a copy of the proposed final order. On August 25, 2000, a Notice of Intent to Issue Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. The notices specified that all parties to the original certification proceeding have 45 days from the issuance of the notice by mail to such party's last address of record in which to object to the requested modification. Failure of any of the parties to file a response constitutes a waiver of objection to the requested modification. The notices further specified that any person who is not already a party to the certification proceeding and whose substantial interest is affected by the requested modification has 30 days from the date of publication of the public notice to object in writing. If no objections are received, then a Final Order approving the modification shall be issued by the Department. If objections are raised and agreement cannot be subsequently reached, then pursuant to §403.516(1)(c), F.S., the applicant or the Department may file a petition for modification seeking approval for those portions of the request for modification to which written objections were timely filed. No written objections to the proposed modifications have been received by the Department. Accordingly, in the absence of any timely objection,

**IT IS ORDERED:**

The proposed changes to the City of Tallahassee's Hopkins Power Plant Conditions of Certification to conform the Conditions to revised Industrial Wastewater Facility Permit No. FL0025518, and to update rule citations are APPROVED. Pursuant to Section 403.516(1)(b), F.S., and section 62-17.211(4), F.A.C., the conditions of certification for the Hopkins Power Plant, are MODIFIED as follows:

**STANDARD**

1. Change in Discharge  
No change.
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) A description of the discharge and cause of non-compliance; and

B. 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

No change.

4. Adverse Impact

No change.

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

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

6. Revocation or Suspension

No change.

7. Civil and Criminal Liability

No change.

8. Property Rights

No change.

9. Severability

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 Act Law, Sections 403.501-403.518 ~~403.519~~, F.S., and amendments thereto.

11. Legal Action

No change.

12. Unforeseen Circumstances

No change.

## SPECIAL

### 1. Air

Arvah Hopkins Unit No. 2 shall be operated in accordance with Chapters 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297, ~~17-210, 17-212, 17-213, 17-296, and 16-297~~, F.A.C.

#### A. Stack Emissions

Emissions shall be controlled so as not to exceed the appropriate standards specified in Chapter 62-296 ~~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 62-210.700 ~~17-210.700~~, F.A.C., regarding excess emissions are applicable to Unit No. 2.

#### B. Stack Height

No change.

#### C. Conditions for Stack Testing

No change.

#### 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 62-297 ~~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 62-297.310(7)(a)5, ~~17-297.310(7)(a)b~~, 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  
No change.

F. Fuel Oil  
No change.

G. Annual Reporting

An annual operation report shall be submitted by the City by March 1 of each year utilizing DEP Form 62-210.900(5) ~~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 62-302 ~~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 62-302 ~~17-302~~, F.A.C. The following specific limits are identified:

(1) a) pH shall be in accord with Chapter 62-302.530(52)(c) ~~17-302~~, F.A.C.

(2) 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.

(3) c) Phosphorus: The effluent shall not contain phosphorus in amounts greater than 1.65 mg/l, as P.

(4) 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>.

(5) e) Chloride: Chloride shall not exceed 250 mg/l at the POD.

(6) f) Deleterious Substances: No organic or inorganic substance which is not specifically described in the application shall be added to the effluent.

(7) 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.

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

(9) i) The permanent use of a copper corrosion inhibitor, such as Betz DE-1213 (Copper-trol Cu-1) or equivalent, is allowed provided:

a. 4) the discharge concentration of the copper corrosion inhibitor does not exceed 20 mg/l at the POD;

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

c. 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 following monitoring program.

| Name                        | STORET Code | Reporting Units      | Monitoring Point | Frequency |
|-----------------------------|-------------|----------------------|------------------|-----------|
| Chlorine, total residual    | 50060       | mg/l                 | POD              | 1/M(a)    |
| Oil & 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       |
| Ortho-phosphate, 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)-(c) No change.

#### 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 City of Tallahassee 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>

<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 Order

date: 5/18/94}. 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.

### 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:

| 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       |
| Solids, Total  | mg/l                   | 1/6M      |

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

### 4. Archeological Sites

No change.

### 5. Site Drainage and Erosion Control

No change.

6. Delegation - Modification of Special Provisions

A. 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.

B. For modifications in relation to federally delegated or approved permit programs, if no written objection is raised following notice to the parties and the public pursuant to Section 403.516(1)(b), F.S., the department shall modify a certification order and conditions of certification to conform to any subsequent department-issued amendments, modifications or renewals of any separately-issued prevention of significant deterioration (PSD) permit, Title V Air Operation permit, National Pollutant Discharge Elimination System (NPDES) permit, or any other permit for the certified electrical power plant issued by the department under a federally delegated or approved permit program so long as no state rule exists which conflicts or is more stringent than the provisos of the federal permits.

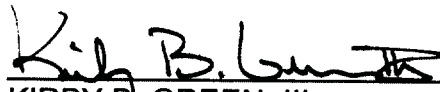
7. Polychlorinated Biphenyl Compounds

No change.

Any party adversely affected by this Final Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes (F. S.) by the filing of a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department Environmental Protection, Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fee, with the appropriate district court of appeal. The Notice of Appeal must be filed within 30 days of the date that this Final Order is filed with the Department of Environmental Protection.

**DONE AND ENTERED** this 2<sup>nd</sup> day of January 2001, in Tallahassee, Florida.

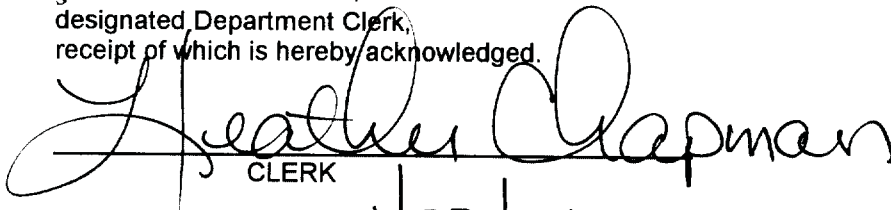
**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**



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**FILING AND ACKNOWLEDGMENT:**

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

  
CLERK

DATE

1/03/01

## CERTIFICATE OF SERVICE

I CERTIFY that a true and correct copy of the foregoing Final Order Modifying Conditions of Certification was sent by U.S. Mail to the following this 3<sup>rd</sup> day of December, 2000:

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STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



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