

CONDITIONS OF CERTIFICATION

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I. GENERAL

~~The following general and specific conditions shall apply to the construction and operation of the City of Tallahassee Arvah B. Hopkins Unit 2.~~ **Replaced by Section A. Condition I. Scope**

A. Definitions [replaced by Section A. Condition IV. Definitions]

~~The meaning of the terms used herein shall be governed by the definitions contained in Chapters 403, and 373, Florida Statutes (F.S.), and any regulation adopted pursuant thereto and the statutes and regulations of any agency. In the event of any dispute over the meaning of a term used in these conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal statute or regulation or, in the alternative, by the use of the commonly accepted meaning as determined by the Department. As used herein:~~

~~1. "Application" shall mean the Site Certification Application (SCA) for the Arvah B. Hopkins Unit 2, as supplemented.~~

~~2. "DEP" or "Department" shall mean the Florida Department of Environmental Protection.~~

~~3. "DHR" shall mean the Florida Department of State, Division of Historical Resources.~~

~~4. "FWCC" shall mean the Florida Fish and Wildlife Conservation Commission.~~

~~5. "Licensee/permittee" shall mean an applicant which has obtained a certification order for the subject electrical power plant, in this instance, the City of Tallahassee.~~

~~6. "Project" and "power plant" shall mean the Arvah B Hopkins Unit 2 and all associated facilities, including but not limited to: the fossil fuel fired generating unit, fuel and water storage tanks, natural gas delivery pipes, industrial wastewater treatment facilities, air pollution control equipment, storm water control facilities, the cooling tower and related facilities.~~

~~7. "NFWFMD" shall mean the Northwest Florida Water Management District.~~

B. Applicable Rules [replaced by Section A. Condition II.]

Applicable Rules]

~~The construction and operation of the Arvah B Hopkins Unit 2 shall be in accordance with all applicable provisions of at least the following regulations of DEP: Chapters 62-4, 62-17, 62-25, 62-814, 62-256, 62-296, 62-297, 62-301, 62-302, 62-531, 62-532, 62-550, 62-610, 62-620, 62-621, 62-650, 62-699, 62-660, 62-701, 62-769, 62-770, and 62-814, Florida Administrative Code (F.A.C.), or their successors as they are renumbered.~~

II. CHANGE IN DISCHARGE [Replaced by Section A. V. Federal Permits, XXIII. Modification of Certification, B., and Section A, XXXII. Water Discharges]

~~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.~~

III. GENERAL CONDITIONS

A. Facilities Operation [Replaced by Section A, V. Federal Permits, and Section A, XXX. Facility Operation]

~~1. The Licensee 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 Licensee to achieve compliance with the terms and conditions of this certification.~~

2. In the event of a prolonged [thirty (30) days or more] equipment malfunction or shutdown of pollution control equipment, operation may be allowed to resume and continue to take place under an appropriate Department order, provided that the Licensee demonstrates that such operation will be in compliance with all applicable ambient air quality standards and PSD increments, solid waste rules, domestic wastewater rules and industrial wastewater rules. During such malfunction or shutdown, the operation of the Arvah Hopkins Unit 2 shall comply with all other requirements of this certification and all applicable state and federal emission and effluent standards not affected by the malfunction or shutdown which is the subject of the Department's order. **[Moved to Section B. I. Department of Environmental Protection, Paragraph E.]**

3. The Licensee shall insure that the project complies with the applicable

provisions of stormwater discharge requirements of Rule 62-25, F.A.C. and the general conditions of Rule 62-4.540, F.A.C. **[Moved to Section B. I. Department of Environmental Protection, Paragraph D.]**

B. Non-Compliance Notification *[Replaced by Section A., VII, Notification, and Section A, XXXII. Water Discharges]*

~~If, for any reason, the Licensee (defined as the applicant or its successors and/or assigns), does not comply with or will be unable to comply with any limitation specified in this certification, the Licensee shall notify the Department's Northwest District office in Pensacola any noncompliance. Any information shall be provided orally within 24 hours from the time the Licensee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Licensee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.~~

C. Enforcement *[Replaced by Section A., XIII. Enforcement]*

~~The Department may take any and all lawful actions as it deems appropriate to enforce any condition of this certification.~~

D. Certification - General Conditions

~~1. This certification is transferable only upon Department approval in accordance with Section 403.516, F.S., Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The City of Tallahassee shall be liable for any noncompliance of the approved activity until the transfer is approved by the Department.~~ **[Replaced by Section A. XXV. Transfer of Certification]**

~~2. These conditions of certification or a copy thereof shall be kept at the work site of the approved activity.~~ **[Replaced by Section A. XXXI. Records Maintained at the Facility]**

~~3. The City of Tallahassee shall comply with the following:~~ **[Replaced by Section A. XXXI. Records Maintained at the Facility]**

~~a. Upon request, the City of Tallahassee 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 City of Tallahassee shall hold at the facility or other location designated by this approval records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the approval, copies of all reports required by this approval, and records of all data used to complete the application for this approval. These materials shall be retained at least three (3) years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule. Data utilized to prepare the application may be maintained at the following locations:~~

~~_____ City of Tallahassee
_____ Arvah B. Hopkins Generating Station
_____ 1125 Geddie Road
_____ Tallahassee, FL 32304~~

~~_____ City of Tallahassee
_____ City Hall
_____ 300 South Adams Street
_____ Tallahassee, FL 32301-1731~~

~~_____ *or subsequent principle office location.~~

~~_____ c. Records of monitoring information shall include:~~

~~_____ i. the date, exact place, and time of sampling or measurements;~~

~~_____ ii. the person responsible for performing the sampling or measurements;~~

~~_____ iii. the dates analyses were performed;~~

~~_____ iv. the person responsible for performing the analyses;~~

~~_____ v. the analytical techniques or methods used;~~

~~_____ vi. the results of such analyses.~~

~~4. The Licensee, by accepting these Conditions, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to [Replaced by Section A. X. Right of Entry]~~

~~a. Enter upon the Licensee's premises where a regulated~~

facility, system, or activity is located or conducted, or where records shall be kept under these Conditions;—

_____ b. — Have access to and copy any records that shall be kept under the conditions of these Conditions;

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

_____ d. — Sample or monitor any substances or parameters at any location necessary to assure compliance with these Conditions or Department rules.

5. — When requested by the Department, the Licensee shall within a reasonable time provide any information required by law which is needed to determine compliance with the certification or any subsequently issued federally delegated or approved permit. The Licensee shall also provide to the Department upon request copies of records required by these Conditions to be kept. If the Licensee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. **[Replaced by Section A. V. Federal Permits and VII. Notification]**

6. — The Licensee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. **[Replaced by Section A. XXXII. Water Discharges]**

7. — Water quality sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. **[Replaced by Section A. XXVI. Laboratories and Quality Assurance and XXXII. Water Discharges]**

a. — Monitoring results shall be reported at the intervals specified elsewhere in these Conditions and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).

_____ b. — If the Licensee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

_____ c. — Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in these Conditions.

_____ d. — Under Chapter 62-160, F.A.C., filed procedures for sample collection and laboratory methods shall be performed by following the protocols described in DEP SOP 001/01 (January 2002). Alternate field procedures and

laboratory methods may be used where they have been approved according to the requirements of Rules 62-160.220, 62-160.330, and 62-160.600, F.A.C.

E. Laboratories and Quality Assurance for Wastewater Discharges *[Replaced by Section A. XXVII. Laboratories and Quality Assurance]*

~~1. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300(4), F.A.C. For domestic wastewater facilities, the on-site test procedures specified in Rule 62-160.300(4), F.A.C., shall be performed by a laboratory certified test for those parameters or under the direction of an operator certified under Chapter 62-602, F.A.C.~~

~~2. When a contract laboratory is used to analyze samples required pursuant to this certification, the Licensee is required to have the samples taken by qualified personnel following EPA and Department approved sampling procedures and chain-of-custody requirements in accordance with Rule 62-160, F.A.C.~~

F. Procedures for Post-Certification Submittals *[Replaced by Section A. XX. Procedures for Post-Certification Submittals]*

1. Purpose of Submittals

~~Conditions of certification which provide for the post-certification submittal of information to DEP by the City of Tallahassee are for the purpose of facilitating DEP's monitoring of the effects arising from the location of the transmission line ROW and the construction and maintenance of the reclaimed water pipeline and the plant facilities. This monitoring is for DEP to assure, in consultation with other agencies with applicable regulatory jurisdiction, continued compliance with the conditions of certification, without any further agency action.~~

2. Filings

~~All post-certification submittals of information by the City of Tallahassee are to be filed with DEP. Copies of each submittal shall be simultaneously submitted to any other agency indicated in the specific conditions requiring the post-certification submittals.~~

3. Completeness

~~The DEP shall promptly review each post-certification submittal for~~

~~completeness. This review shall include consultation with the other agencies receiving the post-certification submittal. For the purposes of this condition, completeness shall mean that the information submitted is both complete and sufficient. If found to be incomplete, The City of Tallahassee shall be so notified. Failure to issue such a notice within forty five (45) days after filing of the submittal shall constitute a finding of completeness.~~

~~4. Interagency Meetings~~

~~Within sixty (60) days of the filing of a complete post-certification submittal, DEP may conduct an interagency meeting with other agencies which received copies of the submittal. The purpose of such an interagency meeting shall be for the agencies with regulatory jurisdiction over the matters addressed in the post-certification submittal to discuss whether reasonable assurance of compliance with the conditions of certification has been provided. Failure of any agency to attend an interagency meeting shall not be grounds for DEP to withhold a determination of compliance with these conditions nor to delay the time frames for review established by these conditions.~~

~~5. Reasonable Assurance of Compliance~~

~~Within ninety (90) days of the filing of a complete post-certification submittal, or 45 days after a submittal is made by the applicant, or unless another date is specified herein, DEP shall give written notification to the City of Tallahassee and the agencies to which the post-certification information was submitted of its determination whether there is reasonable assurance of compliance with the conditions of certification. If it is determined that reasonable assurance has not been provided, the City of Tallahassee shall be notified with particularity and possible corrective measures suggested. Failure to notify The City of Tallahassee in writing within ninety (90) days of receipt of a complete post-certification submittal shall constitute a compliance determination.~~

IV. ADVERSE IMPACT [Replaced by Section A, XXX. Facility Operation and XXVII. Environmental Resources]

~~The Licensee 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. The Licensee shall not adversely impact any jurisdictional wetland without prior approval. (403.511(5)(a), F.S., 62-4.050, F.A.C. and 62-343, F.A.C.)~~

V. RIGHT OF ENTRY [Replaced by Section A, X. Right of Entry]

~~The Licensee shall allow during normal business hours the Secretary of the Florida Department of Environmental Protection and/or authorized representatives,~~

including representatives of the NFWMD upon the presentation of credentials:

~~_____ A. _____ To enter upon the Licensee's premises where an emission or effluent source is located or in which records are required to be kept under the terms and conditions of this certification~~

~~_____ B. _____ To have access during normal business hours (Monday - Friday, 7:00 a.m. to 3:30 p.m.) to any records required to be kept under the conditions of this certification for examination and copying;~~

~~_____ C. _____ To inspect and test any monitoring equipment or monitoring method required in this certification and to sample any discharge or pollutants, or monitor any substances or parameters at any location reasonably necessary to assure compliance with this certification or Department rules; and,~~

~~D. To assess any damage to the environment or violation of ambient standards.~~

VI. REVOCATION OR SUSPENSION [Replaced by Section A, XIV. 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.~~

VII. CIVIL AND CRIMINAL LIABILITY [Replaced by Section A, XVI. Civil and Criminal Liability]

~~Nothing in this certification shall preclude the institution of any legal action or relieve the from responsibilities, 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.~~

VIII. PROPERTY RIGHTS [Replaced by Section A, XV. Regulatory Compliance and XVII. Use of State Lands]

~~The issuance of this certification does not convey any property rights in either real or personal property, nor 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 certification 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.~~

IX. SEVERABILITY [Replaced by Section A, XII. 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 provisions to other circumstances and the remainder of the certification shall not be affected thereby.~~

X. REVIEW OF SITE CERTIFICATION [Replaced by Section A., XIII. Enforcement, and Section A, XXIII. Modification]

~~The certification shall be final unless revised, revoked, or suspended pursuant to law. At least every five (5) years from the date of issuance of certification the Department may review these conditions of certification and propose any needed changes.~~

XI. CERTIFICATION PERIOD [Replaced by Section A., I. Scope, and Section A, XIV. Revocation or Suspension]

~~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, F.S., and amendments thereto.~~

XII. MODIFICATION OF CONDITIONS [Replaced by Section A. XXIII. Modification]

~~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 Licensee. 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.

XIII. AIR [Replaced by Section A., V. Federal Permits. Paragraph A.]

A.—— The terms, conditions, requirements, limitations, and restrictions set forth in Air Construction Permit Number 0730003-009-AC, which is attached as Appendix 1, and any final issuance, modification, or amendment to such Air Construction permit, are incorporated by reference herein, and are binding and enforceable Conditions of this Certification. The Licensee is subject to and shall comply with the terms, conditions, requirements, limitations, and restrictions set forth in Appendix 1 and any final issuance, modification, or amendment to such Air Construction permit. A violation of the terms conditions, requirements, limitations, and restrictions in Appendix 1 is a violation of these Conditions of Certification. [Chapter 403, F.S., Rule 62-4.160, F.A.C.]

B.—— The terms, conditions, requirements, limitations, and restrictions set forth in Title V Air Operation Permit No. 0730003-007-AV, which is attached as Appendix 2, and any final issuance, modification, or amendment to such Air Operation permit, are incorporated by reference herein, and are binding and enforceable Conditions of this Certification. The Licensee is subject to and shall comply with the terms, conditions, requirements, limitations, and restrictions set forth in Appendix 2 and any final issuance, modification, or amendment to such Air Operation permit. A violation of the terms conditions, requirements, limitations, and restrictions in Appendix 1 is a violation of these Conditions of Certification. [Chapter 403, F.S., Rule 62-4.160, F.A.C.]

C.—— These Conditions of Certification shall be modified to conform to subsequent DEP-issued amendments, modifications, or renewals of any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Operation permit, Underground Injection Control (UIC) permit, or National Pollutant Discharge Elimination System (NPDES) permit for the project. In the event of a conflict, the more stringent of the conditions of such permits or of these Conditions of Certification shall be controlling.

D.—— General and Administrative

1.—— Permitting Authority: All documents related to applications for federally delegated or approved air permits to construct, modify or operate these emissions units shall be submitted to the:

Bureau of Air Regulation (BAR)
Florida Department of Environmental Protection
2600 Blair Stone Road, Tallahassee, Florida 32399-2400

and phone number (850) 488-0114. Copies of these documents shall be submitted to the Compliance Authority.

2.—— Compliance Authority: All documents related to compliance activities for federally delegated or approved air permits such as reports, tests, and notifications shall be submitted to the compliance authority. The compliance authority is the:

Air Quality Division
 DEP Northwest District Office
 160 Governmental Center
 Suite 308
 Pensacola, FL 32502

and phone number (850) 595-8300.

XIV. WATER

A. Surface Water Discharges [Replaced by Section A., V. Federal Permits. Paragraph B. and XXXII. Water Discharges]

Wastewater discharged from the site shall meet the standards set forth in Chapter 62-302, F.A.C., and any subsequent amendments, unless excepted by variance and NPDES Permit FL0025518. 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, F.A.C.

1. The Licensee is authorized to discharge from **Outfall D-0172-Cooling Tower Blowdown** from Cooling Tower 2, into the on-site man-made drainage ditch through Outfall D-001 to Beaver Creek.

a. Such discharges shall be limited and monitored by the Licensee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	Daily Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow, MGD	Report	Report	Daily	Integrator	EFF-2A, EFF-2B
Free Available Chlorine, mg/l	0.2	0.5	Each Application	Multiple Grabs ¹	EFF-2A, EFF-2B
Time of Chlorine Discharge, Minutes/tower/day	N/A	120	Each Application	Logs	EFF-2A, EFF-2B

¹ Multiple grabs shall consist of grab samples collected at the approximate beginning of TRC or Spectrus 1300/Clam-trol CT-2 discharge and once every 15 minutes thereafter until the end of TRC or Spectrus 1300/Clam-trol CT-2 discharge. In the event that TRC is not detectable or Spectrus1300/Clam-trol CT-2 is below the no effect level of 0.12mg/l at the time that blowdown is resumed after each application, no further analysis is required. "Daily Average" as it applies to FAC or Spectrus1300/Clam-trol CT-2 means the average of values taken over any individual release period and "Daily maximum" applies to FAC at any time (i.e., during treatment of any cooling tower).

Total Recoverable Zinc, mg/l	1.0	1.0	1/Quarter	Grab	EFF-2B
Total Recoverable Chromium, mg/l	0.2	0.2	1/Quarter	Grab	EFF-2B
Total Recoverable Copper, mg/l	Report	Report	1/Quarter	Grab	EFF-2B
pH	NA	See XIII.A.1.c	1/month	Grab	EFF-2B
Spectrus 1300 /Clam-trol CT-2	Report	Report	Each Application	Multiple Grabs ¹	EFF-2B

b. ~~The location of sampling points as specified above are as follows:~~

Monitoring Location	Description of Monitoring Location
EFF-2B	Cooling tower conveyance pipe prior to mixing with any other waste stream (s) from unit 2.

~~c. The range for pH shall remain within 6.0 to 9.0 SU.~~

~~2. Chlorine:~~

~~Neither free available chlorine (FAC) nor total residual chlorine (TRC) or other Department approved biocide shall be discharged from any tower for more than two hours in any one day and not more than any one tower shall discharge FAC or TRC or other biocide at one time. TRC or biocide monitoring shall be adequate to document compliance with this requirement. Chlorine shall not be used in conjunction with any other biocide during treatment of any one cooling tower.~~

~~3. The Licensee needs to provide certification that the 126 priority pollutants (as listed in 40 CFR Section 423, Appendix A) are not being discharged in detectable concentrations in the cooling tower blowdown as a result of addition of any maintenance chemicals. Continued compliance shall be demonstrated by one of the three methods below.~~

~~Method 1-sampling at a frequency of not less than once per year for all priority pollutants referenced above with submission of analysis results with each certification.~~

~~Method 2-submission of certification (s) from the manufacturer that each product used contains no priority pollutants. Such submission is required only once for~~

each product used, unless subsequent changes in the product formulation occur or the product is obtained from a different source. Certification for all products in use shall be maintained on site.

Method 3 calculations to assure that if priority pollutants are contained in any product(s), no discharge of any individual priority pollutant can occur at concentrations greater than 10 micrograms per liter due to dilution within the cooling system.

The certification shall be in the following form: "I certify that no priority pollutants in excess of 10ppb are being discharged from any maintenance chemicals added to the cooling towers. Compliance is demonstrated by Method—"

4. The Licensee is authorized to discharge from **Outfall D-013 -LOW VOLUME WASTES**, including demineralizer waste, boiler blowdown, auxiliary cooling water and floor drains to the on-site man-made drainage ditch through Outfall D-001 Beaver Creek.

a. Such discharge shall be limited and monitored by the Licensee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	Daily Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow, MGD	Report	Report	Per discharge	Totalizer	EFF-3
Total Suspended Solids, mg/l	30.0	100.0	1/Day (see XIII.A.4.C)	8-Hr Composite	EFF-3
Oil and Grease, mg/l	15.0	20.0	1/Day (see XIII.A.4.C)	Grab	EFF-3
pH	NA		1/Day (see XIII.A.4.C)	Grab	EFF-3

b. The location of sampling points as specified above are as follows:

Monitoring Location	Description of Monitoring Location
EFF-3	Discharge from treatment pond #2 or #3 (EFF-3) prior to mixing with any other waste stream (s).

c. Monitoring for total suspended solids, oil and grease, and pH is required only during periods of discharge to drainage ditch. The range for pH shall remain within 6.0 to 9.0 SU.

~~5. Phosphorus: The effluent shall not contain phosphorus in amounts greater than 1.65 mg/l, as P.~~

~~6. 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 SO₄ in the final combined effluent at the Point of Discharge (POD) shall not exceed 250 mg/l, as SO₄.~~

~~7. Chloride: Chloride shall not exceed 250 mg/l at the POD.~~

~~8. Deleterious Substances: No organic or inorganic substance which is not specifically described in the application shall be added to the effluent.~~

9. Temperature: The instantaneous maximum temperature shall be 85°F during the months of May, June, July, August, and September, and shall be 80°F during all other months, the maximum daily average shall be 80°F at all times, calculated as the mean of all temperature readings on a daily (24-hr) basis. **Moved to Section B. condition I. C.**

~~10. Copper: Compliance with the water quality criteria shall be measured at the boundary of a 330 meter mixing zone extending from the POD.~~

~~11. The permanent use of a copper corrosion inhibitor, such as Betz DE-1213 (Copper-trol Cu-1) or equivalent, is allowed provided:~~

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

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

~~c. 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)
Oxygen, dissolved	00300	mg/l O ₂	POD	1/M
Iron, total	01045	µg/l Fe	POD	1/Q
Mercury, total	71900	µg/l Hg	POD	1/Q
Chromium, total	01034	µg/l Cr	POD	1/Q
Copper, total	01042	µg/l Cu	MZ	1/Q(c)
Lead, total	01051	µg/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 330 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 Licensee shall install and operate a heat exchanger to insure that the cooling tower effluent never exceeds an instantaneous maximum temperature shall be 85°F during the months of May, June, July, August, and September, and shall be 80°F during all other months. The maximum daily average shall be 80°F at all times, calculated as the mean of all temperature readings on a daily (24-hr) basis.

D. Ground Water Monitoring [Moved to Section B. I. Department of Environmental Protection, paragraph B.]

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
Total Hardness	mg/l CaCO ₃	1/6M
pH	pH units	1/M
M alkalinity	mg/l CaCO ₃	1/6M
Conductivity	micromho	1/M

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

E. Site Drainage and Erosion Control

a. ~~Provisions 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.~~ **[Replaced by Section A, XXVII. Environmental Resources]**

b. ~~A control program shall be established by the applicant to provide periodic review of all construction activities to assure protection of the environment.~~ **[Replaced by Section A, XXVIII. Environmental Resources]**

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.~~ **[Replaced by Section A, XXVIII. Environmental Resources]**

d. Stormwater Discharge

i. ~~The existing Hopkins Generating Station surface water management system is permitted to discharge stormwater under the terms and conditions imposed by the FDEP's storm water general permit. The facility's identification number is FLR05B822. The City of Tallahassee is required to continue to update the Hopkins Station's Storm Water Pollution Prevention Plan (SWPPP) annually, as required by the general permit; and to implement the annual changes to the SWPPP.~~ **[Replaced by Section A, V. Federal Permits, paragraph B. Water, number 3]**

ii. Construction of the Project on the Hopkins site must meet the requirements of Chapter 62-25 and 62-621.300 (4) of the Florida Administrative Code, the design requirements presented in the Site Certification Modification for the Project, and be consistent with the "Environmental Management Act", Article VII, Chapter 10 of the Leon County Land Development Code. The new storm water facilities associated with the Project will not become operational until an engineer practicing in the State of Florida in compliance with Section 471.003 (2) (d) Florida Statutes, and with the appropriate experience in surface water design, certifies that these facilities have been constructed in accordance with the design as approved by the FDEP and Leon County's Department of Growth and Environmental Management (Leon County). **[Moved to Section B. I. Department of Environmental Protection, paragraph D.2.]**

iii. FDEP and Leon County representatives shall be allowed reasonable escorted access to the power plant site to inspect and observe activities associated with the Project construction and/or operation and/or maintenance of the surface water management system in order to determine compliance with the conditions of this certification. The City of Tallahassee Shall not refuse immediate entry or access, upon reasonable notice, to any FDEP or Leon county representative who requests entry for the above noted inspection and presents appropriate credentials. **[Moved to Section B. I. Department of Environmental Protection, paragraph D.3.]**

iv. The Landscaping requirements under Chapter 10 of the Leon County Land Development code shall not apply. **[Moved to Section B. III. Leon County]**

v. The storm water facilities for the project will be incorporated into the (SWPPP) and will be operated and maintained in -accordance with-the SWPPP--and the-approved-design. Every three (3) years, the City shall provide written certification to Leon County that the storm water facilities for the project have been operated in accordance with these requirements and are compliant with state water quality standards. **[Moved to Section B. III. Leon County]**

e. Conservation Area **[Moved to Section B., I. Department of Environmental Protection]**

The parcel of land described as follows shall be maintained in perpetuity as a Conservation Area on the terms and conditions hereinafter set forth:

i. Conservation Area

A parcel of land lying in and being a part of that map or plat of Arvah B. Hopkins Plant as recorded in Plat Book 11, Pages 23A through 23C, inclusive of the Public Records of Leon County, Florida, being more particularly described as follows:

COMMENCING at St. Joe Paper Company monument marking the Southeast Corner of Section 26, Township 1 North, Range 2 West as shown on that map or plat of Arvah B. Hopkins Plant as recorded in Plat Book 11, Pages 23A through 23C, inclusive, of the Public Records of Leon County, Florida; thence North 89 degrees 02 minutes 45 seconds West, along the South boundary of Arvah B. Hopkins Plat, a distance of 1318.75 feet to a St. Joe Paper Company monument; thence North 00 degrees 30 minutes 17 seconds West, along the East boundary of said Arvah B. Hopkins Plant, South 89 degrees 29 minutes 43 seconds West a distance of 20.00 feet to a set iron rod and cap (LB #6816) marking the POINT OF BEGINNING of the herein described conservation area. From said POINT OF BEGINNING, thence continue South 89 degrees 29 minutes 43 seconds West a distance of 160.00 feet to a set iron rod and cap (LB #6816); thence North 00 degrees 30 minutes 17 seconds West, a distance of 400.00 feet to a set iron rod and cap (LB #6816); thence North 45 degrees 30 minutes 17 seconds West a distance of 180.00 feet to a set iron rod and cap (LB #6816); thence North 00 degrees 30 minutes 17 seconds West a distance of 39.25 feet to a set iron rod

and cap (LB #6816); thence North 89 degrees 29 minutes 43 seconds East a distance of 287.28 feet to a line lying 20.00 feet West and parallel to the East boundary of said Arvah B. Hopkins Plant; thence South 00 degrees 30 minutes 17 seconds East, along said line lying 20.00 West of and parallel to said East boundary of Arvah B. Hopkins Plat, a distance of 566.53 feet to the POINT OF BEGINNING of the herein described conservation area.

Said parcel containing 2.38 acres, more or less.

ii. Conservation Terms and Conditions

1) The above-described Conservation Area shall be maintained in a natural condition.

2) The following activities are prohibited within this Conservation Area:

(i) Construction or placing of buildings, roads, signs, billboards or other advertising, utilities, or other structures above or on the ground.

(ii) Dumping or placing of soil or other substance or material as landfill, or dumping or placing of trash, waste, or unsightly or offensive materials.

(iii) Removal or destruction of trees, shrubs, or other vegetation.

(iv) Excavation, dredging, or removal of loam, peat, gravel, soil, rock, or other material substance in such matter as to affect the surface.

(v) Surface use except for purposes that permit the land or water area to remain predominantly in its natural condition.

(vi) Activities detrimental to drainage, flood control, water conservation, erosion control, soil conservation, or fish and wildlife conservation habitat preservation.

(vii) Acts or uses detrimental to such retention of land or water areas.

(viii) Acts or uses detrimental to the preservation of the structural integrity or physical appearance of sites or properties of historical, architectural, archeological, or cultural significance.

3) Leon County shall be entitled to enter the above-described Conservation Area in a reasonable manner and at reasonable times to assure compliance with the requirements of this condition of certification.

F. Polychlorinated Biphenyl Compounds [Moved to Section B. I. Department of Environmental Protection, paragraph F.]

There shall be no discharge of polychlorinated biphenyl compounds.

XV. ARCHEOLOGICAL SITES [Replaced by Section B., II. Department of State – Division of Historical Resources]

~~The 231 acre Hopkins site shall be examined by the appropriate archaeological agency of Tallahassee to identify areas of archaeological significance. Subsequently, 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.~~

HISTORY

Certification issued 5/20/75 by Pollution Control Board
Modified (A) 6/27/77; signed by Governor Graham
Modified (B) 05/30/79, signed by Secretary Varn
Modified (C) 10/05/84, signed by Secretary Tschinkel
Modified (D) 10/24/86, signed by Secretary Tschinkel
Modified (E) 10/21/87, signed by Secretary Twachtman
Modified (F) 06/06/90, signed by Secretary Twachtman
Modified (G) 05/18/94, signed by Secretary Wetherell
Modified (H) 01/03/01, signed by Deputy Secretary Green
Modified (I) 05/25/04, signed by Siting Administrator Oven
Modified (J) 11/29/04, signed by Siting Administrator Oven
Modified (K) 01/07/05; signed by Siting Administrator Oven
Modified (L) 01/07/05; signed by Siting Administrator Oven
Modified (M) 10/07/05; signed by Siting Administrator Oven

~~Appendix 1—Air Construction Permit 0730003-009-AC~~ replaced
by Section A. V. Federal Permits

~~Appendix 2 – Title V Air Operation Permit No. 0730003-007-AV~~
replaced by Section A. V. Federal Permits