State of Florida Department of Environmental Regulation
Lake Worth Utilities Authority
Unit S-5
Case No. PA-74-05
CONDITIONS OF CERTIFICATION Modified 03/29/96

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General

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 not identified in the application, or more frequent than, or at a level in excess of that authorized herein, 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 permittee does not comply, with or will be unable to comply with any limitation specified in this certification, the permittee shall notify the Central and Southern District Manager of the Department by telephone during the working day that said noncompliance occurs and shall confirm this in writing within seventy-two (72) hours of becoming aware of such conditions, and shall supply the following information:

a. A description of the discharge and cause of noncompliance; and

b. The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the 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 permittee shall allow the Secretary of the Florida Department of Environmental Regulation 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

This certification may be suspended or revoked pursuant to Section 403.512, Chapter 403, Florida Statutes, or for violations of any General or Special Conditions.

7. Civil and Criminal Liability

This certification does not relieve the permittee from civil or criminal penalties for noncompliance with any condition of this certification, applicable rules or regulations of the Department or Chapter 403, Florida Statutes, or regulations there under.

Subject to s. 403.511, F.S., this certification shall not preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other applicable State Statutes, or regulations.

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. The applicant will obtain title, lease or right of use from the State of Florida, to any sovereign submerged lands occupied by intake or discharge structures.

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 hall not be affected thereby.

10. Pollutants

If any applicable state effluent or emission standard or prohibition (including any schedule of compliance specified in such effluent or emission standard or prohibition) is established for a pollutant which is in this certification and such standard or prohibition is more stringent than any limitation for such pollutant in this certification, this certification shall be revised in accordance with the new effluent or emission standard or prohibition and the permittee so notified, unless a variance is or has been obtained pursuant to Chapter 403, Florida Statutes. In the application of such later adopted standards this paragraph shall not be considered in determining whether or not the Unit S-5 is classified as a new source or as an existing source if such distinction is made within the later adopted standard.

11. Review of Site Certification

The certification shall be final unless revoked or suspended pursuant to law. Five years from the date of issuance of any National Pollutant Discharge Elimination System Permit issued pursuant to the Federal Water Pollution Control Act Amendments of 1972, for the plant units, the Department shall review all monitoring data that has been submitted to it during the preceding five year period for the purpose of determining the extent of the permittee's compliance with the conditions of this certification and the environmental impact of this facility. The Department shall submit the results of its review and recommendations to the Permittee and all parties of record in this certification proceeding. This review will be repeated every five years thereafter.

12. Modifications of Special Conditions

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, F.S., upon mutual agreement with the applicant. Such modifications and agreement shall be in writing. Such modifications will not take effect until after notice to all parties of record and until after a public notice giving a period of thirty days for public review and comment. The Secretary shall provide opportunity for a public hearing on the proposed modifications prior to taking final agency action.

SPECIAL

I. Air

The construction and operation of the Unit S-5 shall be in compliance with all applicable provisions of Chapters 17-2, 17-5 and 17-7, Florida Administrative Code, and the permittee shall comply with the following conditions of certification:

1. Fuel consumed should contain not more than 2.25% sulfur in Units S-3 and S-4 nor more than 0.35% sulfur in Unit S-5.

2. The boiler exhaust stack shall be not less than 75 feet above grade.

3. The permittee shall provide sampling ports into the stack and will provide access to the sampling ports by a ladder and platform or by temporary means as well as such temporary facilities as may be requested by the Department of Environmental Regulation in order that stack sampling may be accomplished.

4. a. The permittee shall demonstrate compliance with the fuel sulfur content limits in Specific Condition 1.1 through sampling and analysis of as-fired fuel oil. The sampling shall be conducted for each day of operation firing fuel oil, and analysis of the samples composited for each unit shall be conducted monthly. Fuel oil analysis reports shall be submitted quarterly.

b. A visible emissions (VE) test shall be conducted annually using EPA Reference Method 9, to Determine compliance with the VE limits of 20% opacity.

5. On or before March 1st of each calendar year, a completed Annual Operation Report Form for Air Emissions Sources shall be submitted. Calculations shall be shown

6. The permittee shall maintain an hourly log of fuels used and copies of fuel analyses containing information of sulfur content and heating value to enable calculations of emissions.

7. Copies of all reports, tests, notifications or other submittals required by Florida Administrative Code rules or conditions of this certification shall be submitted to both the Southeast Florida District Office and the Palm Beach County Health Department, Division of Environmental Science and Engineering.

8. The permittee shall comply with the following emission standards for NOx.

a. Emissions of NOx from unit GT-2/S-5 shall not exceed 0.50

lb./million BTU while firing natural gas and 0.90 lb./million Btu while firing fuel oil.

b. Compliance for unit GT-2/S-5 shall be demonstrated by annual emission testing in accordance with EPA Test Method 7E. Emission testing shall be completed by February 28th of each year. Annual compliance testing while firing oil is not required for units that operated on oil for less than 400 hours in the previous federal fiscal year (ending September 30th). The permittee shall submit to the Palm Beach County Public Health Unit, Air Section, and to the Department of Environmental Protection, Southeast District Office, Air Program, written confirmation that testing while firing oil is not required, in lieu of submitting an emission test report for each unit that is not tested each year.

c. All required emission testing shall be performed no later than February 28th of each year, except for units that are not operating because of scheduled maintenance outages and emergency repairs, which will be tested within thirty days of return to service.

d. Compliance testing shall be conducted with the emission units operating at the permitted capacity (90 to 100% of the maximum permitted operation rate of the emission units). If an emissions unit is not tested at permitted capacity, the emission unit shall not be operated above 110% of the test load until a new test showing compliance is conducted. Operation of the emissions unit above 110% of the test load is allowed for no more that 15 days for the purpose of conducting additional compliance testing to regain the authority to operate at the permitted capacity. [F.A.C. Rule 62-297.310 (2)]

II. Water

A. Pretreatment Standards

Wastewater discharged from Unit S-5 to the Lake Worth municipal sewerage system shall comply with Annex III of the Sewer Service Agreement between the Lake Worth Utilities Authority and the City of West Palm Beach and the pretreatment standards for new sources as contained in 40 CFR, Part 423.16 and amendments. The latter is set forth as follows:

EPA Pretreatment Standards and Standards of Performance for New Sources

Parameter	Avg. 30-Day, Daily Value

a) Low Volume Waste (40 CFR, Part 423.15 (c)) - (ion exchange water treatment systems, floor drainage, sample drains, cooling tower basin cleaning wastes, and similar wastes)

TSS	30 mg/l
Oil and Grease	15 mg/

b) Metal Cleaning Wastes (40 CFR, Part 423.15 (f))

TSS	30 mg/1
Oil and Grease	15 mg/l
Copper, Total	1.0 mg/l
Iron, Total	1.0 mg/l

c) Boiler Blowdown (40 CFR, Part 423.15(g))

Same limits as for b) Metal Cleaning Wastes.

d) Cooling Tower Blowdown (40 CFR, Part 423.15(i))

Zinc	no detectable amount
Chromium	no detectable amount
Materials for corrosion inhibition	no detectable amount

e) The pH of all discharges shall be within the range of 6.0 - 9.0.

f) There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid, or other toxic substances.

B. In-Plant Water Monitoring Program

A monitoring program shall be undertaken by the Lake Worth Utilities Authority on the effluent streams within the facility to determine compliance by Unit S-5 with the applicable pretreatment standards.

III. Stormwater Runoff

During construction and operation, necessary measures shall be employed to settle, filter or absorb silt so that the runoff shall not exceed 50 mg/l of suspended solids. Such measures may include sediment traps, barriers and the use of berms or vegetation. Exposed or disturbed soil shall be sodded as soon as possible to minimize silt and sediment runoff into waters of the State.

IV. Solid Wastes

Solid wastes generated by tie construction or operation of the facility shall be

handled and disposed of in conformance with Chapter 17-7, FAC. Open burning will not be allowed.

V. Special Study

The Lake Worth Utilities Authority shall conduct a special study and furnish to the Department by January 3, 1977; a contingency plan to increase the intertie capability with Florida Power and Light Company in order to produce a source of electricity in the event that gaseous or liquid fuels become uneconomical or unavailable for continued operation of Unit S-5 in compliance with the conditions of certification.

History Notes

Certification issued 05/18/76; signed by Governor Graham
Modified 09/28/87; signed by Secretary Twachtmann
Modified 03/29/96; signed by Secretary Wetherell