



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

Colleen M. Castille
Secretary

required to modify the Conditions of Certification for this facility to conform them to the modified PSD permit.

On May 13, 2005, all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on June 3, 2005, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Department's internet home page at <http://www.dep.state.fl.us/> under the link or button titled "Official Notices." Those notices are hereby withdrawn and replaced with this Notice. This Notice and the Notice published on the Department's internet Home page on July 8, 2005, specified that pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, F.A.C., all parties to the certification proceeding have 45 days from the issuance of the notice by mail to such party's last address of record in which file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice in the FAW to object in writing; that pursuant to Rule 62-17.280(1)(c), F.A.C., failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue a Final Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for the Payne Creek Generating Station are hereby modified as follows:

II. AIR

A. – H. No change

I. Peaking Units

APPLICABLE STANDARDS AND REGULATIONS

1. Prevention of Significant Deterioration: The emission units addressed in this section are subject to a PSD Review for nitrogen oxides (NO_x), sulfur dioxide (SO₂), particulate matter (PM₁₀), ~~carbon monoxide (CO)~~, Volatile Organic Compounds (VOC) and particulate matter (PM₁₀). {PSD-FL-344} [Rule 62-212.400, F.A.C.]

2. No change.

PERFORMANCE RESTRICTIONS

3. Combustion Turbines: The licensee is authorized to install, tune, operate and maintain five new combustion turbine sets with electrical generators (Pratt & Whitney Twin Pac). Each unit is designed to produce approximately 60 MW of electrical power. Each Twin Pac is comprised of two combustion turbines, representing (and referred to herein as) a “combustion turbine set”.

4. – 15. No change.

16. Carbon Monoxide (CO): CO emissions from each Twin Pac shall not exceed 19.9 TPY (gas) nor 7 ppm (oil). CO emissions from each combustion turbine shall not exceed 19 ppm dv (gas) nor 7 ppm (oil). The licensee shall demonstrate compliance with this standard by conducting performance tests and emissions monitoring in accordance with EPA Method 10 and the requirements of these conditions. In the event that any of these standards are exceeded, the licensee shall take appropriate steps (e.g. perform maintenance, replace catalyst, etc.) in order to reduce CO emissions below the standards, as demonstrated by a subsequent re-test within 60 days of obtaining the results of the exceedances. [Rule 62-212.400(2) (g), F.A.C. (PSD Avoidance)]

17. Nitrogen Oxides (NO_x):

a. – c. No change.

d. NO_x emissions shall not exceed 42 ppm dv while firing fuel oil. The compliance averaging time shall be the sampling period specified by the applicable Condition II.I.22.(c) compliance method.

e. – h. No change

18. No change.

EXCESS EMISSIONS

19. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction, shall be prohibited. In the event that prohibited emissions occur, ~~These~~ these emissions shall be included in the calculation of the 12-month rolling averages to demonstrate compliance with the continuous NO_x emissions standard. {Permitting Note: The licensee shall quantify the CO emissions

resulting from a typical start-up and include estimated annual emissions in the TPY limitation specified within Specific Condition II.I.16 above. [Rule 62-210.700(4), F.A.C.]

20. – 32. No change.

CONTINUOUS MONITORING REQUIREMENTS

33. NO_x CEMS:

34. Water-to-fuel ratio: Each Twin Pac shall be fitted with continuous water to fuel ratio monitoring equipment, as per 40 CFR 75 Appendix E. Appendix E is an alternative monitoring protocol that may be used by oil and gas-fired peaking units in lieu of installing a CEMS to measure NO_x emissions. Hourly NO_x emissions (lbs for natural gas, ppm for oil) shall be correlated to the results of a series of stack tests based on the heat input to the unit at various water-to-fuel injection ratios. Based upon the measured water-to-fuel ratio, and the measured heat input for each fuel, the actual NO_x emissions shall be calculated. With the appropriate load selection, the Subpart GG performance testing may also be utilized to satisfy the NO_x-to-heat input correlation testing requirements of Appendix E. Retesting of Appendix E NO_x-to-heat input correlation for each combustion turbine shall be required annually, except as provided for within Specific Condition 25 of this permit. The licensee shall solicit a list from the turbine manufacturer of at least four operating parameters (indicative of NO_x formation) with acceptable ranges to serve as QA/QC parameters as per Appendix E. The manufacturer supplied ranges for the parameters, shall be used on an hourly basis to establish that the unit is being operated in a normal fashion and, therefore, that the NO_x-to-heat input correlation (by fuel type) can be used with validity. As a further means of ensuring the validity of the Appendix E protocol for determining NO_x emissions, one of the five Twin Pacs shall be fitted with a NO_x CEMS. The NO_x CEMS which is installed solely for this purpose (rather than one of the purposes outlined in Specific Condition 33 above) shall not be in the compliance method, but shall be utilized for the purpose of ensuring that the Appendix E protocol is being properly applied. Annual data (obtained from the above testing) shall be provided to the Department correlating the CEMS indication to the Appendix E indication.

XX. APPENDIX I. NPDES Permit No. FL0044229(Rev. C)

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

1. No change

2. During the period beginning on the issuance date of this permit and lasting through expiration, the Permittee is authorized to discharge from **Outfall I-002 - TREATED LOW VOLUME WASTES** to the Cooling Reservoir. Low volume wastes are those wastes generated from "low volume waste sources" as defined in 40 CFR Part 423.11(b) plus storm water from the diked petroleum storage areas, treated domestic wastewater (Outfall R-001), reverse osmosis reject water, and treated hydrostatic test water.

a.-c. No change

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a 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, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, 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 thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Hamilton S. Oven

Hamilton S. Oven, P.E.

Administrator, Siting Coordination Office

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

Denise Cunningham 10-7-05
Clerk Date

CC by U.S. mail:

James V. Antista, Esquire
Mark Carpanini, Esquire
Lawrence N. Curtin, Esquire
Mary Ann Helton, Esquire
Craig Varn, Esquire
Scott Goorland, Esquire
Martha Moore, Esquire
Kenneth Evers, Esquire
Sheauching Yu, Esquire
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CC by electronic mail

Kathy Carter