Month, day, 2006

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Craig Arcari
Plant Manager and Responsible Official
Martin Power Plant
Florida Power & Light Company
700 Universe Boulevard
June Beach, FL 33408

Re: DEP File No. 0850001-016-AC
PSD-FL-146C and PSD-FL-327B
Combined Cycle Units 3, 4 and 8

Dear Mr. Arcari:

The Florida Department of Environmental Protection ("the Department") reviewed your application for an Air Construction/PSD Permit Modification received March 3, 2006 (complete on May 23, 2006). The requests apply to Combined Cycle Units 3, 4, and 8 and include:

- Annual compliance testing of Combined Cycle Units 3 and 4 within a range of 90 to 100 percent of capacity (corrected for ambient conditions) rather than a range of 95 to 100 percent.
- Recognition of a high power mode for Combined Cycle Units 3 and 4 known as power or steam augmentation that was included in the original design and construction.
- Addition of EPA Test Methods 25, 25A for the determination of VOC emissions and EPA Test Method 7E for the determination of NO_X concentrations for Units 3 and 4.
- Extension of the allowable excess emissions period from six to eight hours during the "cold" startup of the 470 MW steam turbine electrical generator (STG) for Unit 8.
- Excess emissions for a one-hour duration when switching from natural gas to distillate fuel oil on Unit 8.

The requests are acceptable as presented except that the Department has determined that excess emissions provisions are not necessary for switches from gas to oil for the reasons given in the Technical Evaluation dated August 21, 2006.

NEW CONDITIONS APPLICABLE TO COMBINED CYCLE UNITS 3 AND 4.

Operation During Testing. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

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If tested at less than capacity, the entire heat input versus inlet temperature curves will be adjusted by the increment equal to the difference between the design heat input value and 110 percent of the value reached during the test. Data, curves, and calculations necessary to demonstrate the heat input rate correction at both design and test conditions shall be submitted to the Department with the compliance test report.

[Rule 62-297.310(2), Rescission of Guidance DARM-EM-05, and Applicant Request]

{Permitting Note: Previously applicable condition required testing between 95 and 100 percent of capacity and subsequent operation to 105 percent of the value reached during the test if conducted at less than 95 percent of capacity}

Power Augmentation. Units 3 and 4 may be operated in the high power mode known as steam augmentation provided the units comply with all of the applicable emission and heat input limitations.

[Original Design and Construction. Limitations in Air Construction/PSD Permit PSD-FL-146]

Annual Compliance Tests.

(a) Method 7E may be used in lieu of previously authorized Method 20 for the measurement of NO_X.

(b) Methods 25 or 25A may be used for determination of VOC and previously authorized Method 18 may be used to account for the non-regulated methane fraction of the measured hydrocarbon emissions.

(c) Tests shall be conducted for each combustion turbine to demonstrate compliance with CO, NO_X, PM and visible emissions (VE) standards for normal gas firing, gas firing with power augmentation, and backup distillate oil firing. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). CO and NO_X performance tests shall be conducted concurrently.

(d) If conducted at permitted capacity, NO_X emissions data collected during the annual NO_X continuous monitor RATA required pursuant to 40 CFR 75 may be substituted for the required annual performance test.

(e) For each combustion turbine that fires distillate oil for less than 200 hours during the previous federal fiscal year, the annual performance tests when firing distillate oil for the current federal fiscal year of operation are not required.

(f) For each combustion turbine that operates with power augmentation for less than 200 hours during the previous federal fiscal year, the annual performance tests when operating with power augmentation for the current federal fiscal year of operation are not required.

[40 CFR Appendix A; Rule 62-204,800, F.A.C. and Rule 62-297.310(7)(a)4.,F.A.C.]

MODIFICATIONS OF AIR CONSTRUCTION/PSD PERMIT 327 - COMBINED CYCLE UNIT 8

Section III, A - Emissions Unit Specific Condition No. 16.a

Steam Turbine/HRSG System Cold Startup: For cold startup of the steam turbine system, excess emissions from any gas turbine/HRSG system shall not exceed ~~six~~ eight (8) hours in any 24-hour period. Cold startup of the steam turbine system shall be completed within twelve hours. A cold "startup of the steam turbine system" is defined as startup of the 4-on-1 combined cycle system following a shutdown of the steam turbine lasting at least 48 hours. *{Permitting Note: During a cold startup of the steam turbine system, each gas turbine/HRSG system is sequentially brought on line at low load to gradually increase the temperature of the steam-electrical turbine and prevent thermal metal fatigue. Note that shutdowns and documented malfunctions are separately regulated in accordance with the requirements of this condition.}*

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The rest of Specific Condition 16 is unchanged.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. Any party to this permitting decision (order) has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the 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 fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

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Joseph Kahn, P.E., Acting Director
Division of Air Resource
Management

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CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT MODIFICATION was sent by certified mail (*) and copies were sent by electronic mail before the close of business on _____ to the person(s) listed:

Craig Arcari, Florida Power & Light Company*
John Hampp, Florida Power & Light Company (via e-mail)
Darrel Graziani, P.E., Southeast District Office (via e-mail)
Jim Little, U.S. EPA, Region 4 (via e-mail)
Kennard F. Kosky, P.E., Golder Associates, Inc. (via e-mail)
Buck Oven, P.E., Power Plant Siting Office

Clerk Stamp

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)

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