

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

IN RE: SITE CERTIFICATION,           )  
MARTIN COAL GASIFICATION/           ) CERTIFICATION NO. PA89-27B  
COMBINED CYCLE PROJECT,           ) OGC NO. 91-0581  
FLORIDA POWER & LIGHT COMPANY )

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

On February 20, 1991, the Governor and Cabinet, acting as the Siting Board, issued a final order approving certification of Florida Power & Light Company's (FPL) Martin Coal Gasification/ Combined Cycle Facility (Martin CG/CC). That certification order approved the construction and operation of a natural gas/oil fired combined cycle facility and associated facilities to be located in Martin County, Florida.

On July 26, 1994, FPL filed a request to modify the conditions of certification pursuant to section 403.516(1)(b), F.S. FPL requested temporary relief from short-term emission limits to allow testing and evaluation of engineering design modifications to the dry low NOx combustors in the combustion turbines, and a revision to the method for demonstrating compliance with mercury emission limits.

Copies of FPL's request were distributed to all parties to the certification proceeding and made available for public review. On September 2, 1994, the Department published a Notice of Intent to Issue the Proposed Modification in the Florida

Administrative Weekly. Copies of the intent to issue were sent to all parties to the original proceeding. As of August 29, 1994, all of the parties to the original proceeding had received copies of the intent to issue. The notices specified that a hearing would be held if a party to the original certification hearing objects within 45 days from receipt of the proposed modification or if a person whose substantial interests will be affected by the proposed modification objects in writing within 30 days after issuance of the public notice. Written objections to the proposed modifications were not received by the Department.

Accordingly, in the absence of any dispute, IT IS ORDERED THAT:

The proposed modifications to the Conditions of Certification relating to nitrogen oxide emissions and testing of Low-Nox combustors for the Martin CG/CC Project requested by FPL are hereby approved based on the absence of any written objections. The Department does not feel that the change of mercury emission test procedures is necessary at this time since no gasifiers have been constructed, but may be approved upon submission of additional information pursuant to Florida Administrative Code Rule 17-297.620, and Condition II.A.10. Pursuant to section 403.516(1)(b), F.S., the Department hereby modifies the conditions of certification for the Martin CG/CC

Project as follows:

II.A. Emission Limitations for Martin CG/CC Project

4. The maximum allowable emissions from each CT in accordance with the BACT determination, shall not exceed the following, at 40° F (except during periods of startup and shutdown and except as provided in Condition II.A.22.)):

22. FPL may alter the DIM II combustors for the four CTs subject to these conditions, operate the CT receiving the first altered DIM II combustor for a maximum period of 60 days for adjustment; and, operate each of the other three CTs for a maximum period of 30 days, after installation of the altered DIM II combustors, for adjustment provided the following conditions are met:

a. The Department's Southeast District air program administrator shall be notified in writing a minimum of 10 days in advance of initially placing any altered DIM II combustor into service.

b. To allow time for evaluation and testing of alterations to the dry low NOx combustor (DIM) design, the emission limitations in Specific Condition 4 of the referenced permit shall not apply during a sixty (60) day period following installation of the final DIM design configuration in the initial CT and shall not apply during a thirty (30) day period per CT

following installation of the final DIM design in each of the remaining - three CTs. During the evaluation and testing of the altered combustors, the maximum nitrogen oxides (NOx) emissions shall comply with the emission limit specified by the new source performance standards for CT, 40 CFR 60, Subpart GG. The annual allowable emissions (TPY) of NOx for each CT in permit PSD-FL-146 and these conditions shall not be exceeded.

c. Except during CT performance testing for extreme conditions, carbon monoxide (CO) emissions shall not exceed 100 ppmvd. The maximum CO emissions during a 12 hour test period to evaluate CT performance during extreme conditions shall not exceed 500 ppmvd, 30 minute average. The annual allowable emissions (TPY) of CO for each CT in permit PSD-FL-146 and these conditions shall not be exceeded.

d. The volatile organic compound (VOC) emissions shall not exceed 20 ppmvd except during CT performance testing for extreme conditions. During the 12 hour test period to evaluate CT performance during extreme conditions, VOC emissions shall not exceed 100 ppmvd. The annual allowable emissions (TPY) of VOC from each CT in permit PSD-FL-146 and these conditions shall not be exceeded. The VOC emissions shall be evaluated during the testing periods by measuring total unburned hydrocarbons (UHC). FPL shall determine the VOC component of UHC emissions at several different UHC levels during the testing of the first combustion

turbine to have the new DLNII combustors installed. The ratio of VOC/UHC concentration shall be measured, as a minimum, at the low, medium, and high UHC concentration observed during the CT performance tests. The VOC component of the UHC emissions shall be attributed against the annual 57 ton VOC emission limit for the facility. The UHC levels shall not exceed 40 ppmvd during the test period. However, during the 12-hour non-continuous CT performance testing for extreme conditions, UHC emissions shall not exceed 500 ppmvd.

e. After the adjustment period, each CT must be in compliance with all limitations in the condition II.A.4.

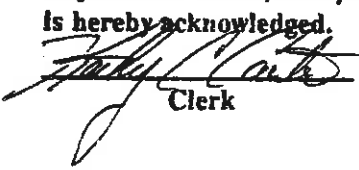
f. Within 45 days after the completion of the project, the permittee shall furnish the Department with a report summarizing the variation in parameters and emissions of NOx, VOC, and CO from the modified DIM II on all of the CTs and any operation problems with the CT units remaining to be resolved.

Any party to this Order has the right to seek judicial review of the Order pursuant to section 120.68, Florida Statutes, by the filing of 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, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 30 days from the date that the Final Order is filed with the Department of Environmental Regulation.

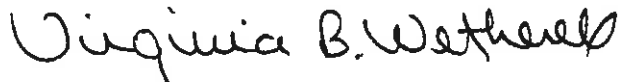
DONE AND ENTERED this 27<sup>th</sup> day of September 1994 in Tallahassee, Florida.

**FILING AND ACKNOWLEDGEMENT**  
**FILED**, on this date, pursuant to **S120.52**  
**Florida Statutes**, with the designated  
**Department Clerk**, receipt of which  
is hereby acknowledged.

  
Clerk

9/28/94  
Date

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of the foregoing was sent by U.S.

Mail to the following this 28<sup>th</sup> day of September, 1994.

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STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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