



January 20, 1992 3F0192-12

Document Control Desk U. S. Nuclear Regulatory Commission Washington, DC 20555

Subject: Environmental Protection Plan

Dear Sir:

Please find attached a copy of correspondence dated November 26, 1991, to the Environmental Protection Agency concerning a minor modification to the NPDES Permit FL0000159 for the monitoring and reporting of discharge flow from the Crystal River site. The submittal of this correspondence to the NRC is required in accordance with the Environmental Protection Plan, Section 3.2.

Sincerely,

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P. M. Beard, Jr. Senior Vice President Nuclear Operations

PMB/REF:ff

Attachment

xc: Regional Administrator, Region II Senior Resident Inspector NRR Project Manager

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November 26, 1991

Certified Mail

Mr. James Scarbrough, Chief Facilities Performance Branch U.S. Environmental Protection Agency 345 Courtland Street, N.E. Atlanta, GA 30365

Dear Mr. Scarbrough:

Re: Crystal River Power Plant Units 1, 2, & 3 NPDES Permit FL0000159 Flov/ Reduction

Pursuant to :: telephone conversation between Mr. Charles Kaplan of your office and Ms. Manitis Moultrie of my staff c a November 20, 1991, Florida Power Corporation (FPC) hereby requests a minor modification to the subject permit regarding monitoring and reporting of Crystal River site discharge flow during the winter flow reduction season. A summary of the conversation and proposed wording of the modification are provided below.

Summary of Flow Reduction Conversation (11/20/91)

In a November 7, 1991 letter from W. Jeffrey Pa.due to Mr. Kaplan, FPC outlined two alternatives for measurement of total site discharge flow during the November 1 to April 30 annual flow reduction period.

- Fixed Valve Position The throttling valves which have been installed in the condenser discharge piping of Units 1&2 may be set to achieve the desired flow, based upon a valve position - flow curve developed by dye dilution testing.

The reasons for rejection of Alternative 1 were discussed. At present, two unavoidable conditions in the condenser discharge piping at Crystal River Units 1&2 - air inleakage and non-laminar flow - significantly impair the performance of these monitors. FPC will continue to explore the capabilities of the electronic (doppler effect) flow monitors, but another method of flow monitoring must be implemented to support the February 28, 1992 beginning of the first flow reduction season.

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It was agreed by Mr. Kaplan that EPA will accept Alternative 2. FPC will proceed to implement this alternative, incorporating the following considerations.

- A series of dye dilution tests will be performed on each condenser over a range of valve settings to
 establish the valve position flow curve for each throttling valve.
- The flow measured during dye dilution testing will be normalized to mean tide level. The valve
 position will be set during reduced flow operation based upon these normalized flows.
- Upon implement. On of flow reduction, the throttling valves will be set as necessary to achieve the 15% reduction L. Otal site discharge. Valve positions may be changed to respond to changing conditions, such as a condenser or unit being out of service.
- Monitoring during flow reduction season will consist of maintaining hourly pump logs (exactly as is done during the remainder of the year) and recording the position of the throttling valves.
- The reported flow will be determined from the pump logs and valve position flow curves. In
 essence, the valve position flow curves will take the place of the pump curves during flow reduction
 season.
- Dye dilution testing will be performed to re-establish the valve position flow curve for a specific circulating water pump circuit if modifications are made to the circulating water system (flumes, condenser, etc.).

Proposed Modification

PART LA.2.a:

Add reference to Footnote 5 under "Sample Type" entry for "Flow (MGD)" as follows:

Pump logs \$/

PART LA.2:

Add i ootnote 5 as follows:

5/ Supplement with valve position log during flow reduction season (reference November 26, 1991 letter [Pardue to Patrick (EPA)]).

PART LA.3.a:

Add reference to Footnote 4 under "Sample Type" entry for "Flow (MGD)" as follows:

Pump logs 4

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PART LA.3:

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Add Fe stnote 4 as follows:

§/ Supplement with valve position log during flow reduction season (reference November 26, 1991 letter [Pardue to Patrick (EPA)]).

If you have any questions or comments, please contact Ms. Manitia Moultrie at (813) 866-4667.

Sincerely,

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W. Jeffrey Pardue, Manager Environmental Programs

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