

April 3, 2002

Mr. Dale E. Young, Vice President
Crystal River Nuclear Plant (NA1B)
ATTN: Supervisor, Licensing & Regulatory Programs
15760 W. Power Line Street
Crystal River, Florida 34428-6708

SUBJECT: CRYSTAL RIVER UNIT 3 — SUMMARY OF CONFERENCE CALL WITH
FLORIDA POWER CORPORATION REGARDING 2001 STEAM GENERATOR
TUBE INSPECTION RESULTS (TAC NO. MB3015)

Dear Mr. Young:

On October 17, 2001, the Nuclear Regulatory Commission staff (NRC) participated in a conference call with Florida Power Corporation (FPC) regarding the steam generator tube inspection activities during Refueling Outage 12 at Crystal River Unit 3. Enclosed is a summary of the conference call. Also enclosed are materials provided by FPC to support the call. Participants included myself, John Tsao, Ken Karwoski, and Mark Lesser.

By letter dated October 19, 2001, FPC submitted a special inspection report prior to ascension to MODE 4. FPC will be submitting a comprehensive inspection report in accordance with the plant technical specifications. We appreciate your support in this matter. If you have any questions, please give me a call at (301) 415-1437.

Sincerely,

/RA/

John M. Goshen, Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosures:

1. Summary of 10/17/01 Conference Call
2. FPC Supporting Documentation

cc w/enclosures: See next page

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SUMMARY OF OCTOBER 17, 2001, CONFERENCE CALL
WITH
FLORIDA POWER CORPORATION
REGARDING CURRENT STEAM GENERATOR INSPECTION RESULTS
AT CRYSTAL RIVER UNIT 3

On October 17, 2001, staff from the Materials and Chemical Engineering Branch of the Division of Engineering participated in conference calls with Florida Power Corporation (FPC) representatives to discuss the results of the steam generator tube inspections during Refueling Outage 12 at Crystal River Unit 3.

FPC representatives discussed the following topics: initial eddy current testing scope, scope expansion plans, indications identified to-date, repair/plugging plans, new inspection findings, in situ pressure test plans and actions taken in response to lessons learned from the Indian Point Unit 2 tube failure.

In accordance with Regulatory Commitments specified in License Amendment No. 198 for the reroll joint repair, dated September 10, 2001, FPC reported that several circumferential indications were detected in the original roll joints and rerolled joints in the tubesheet. These tubes were plugged. As a part of the Regulatory Commitments, FPC reported that the estimated leakage from the reroll joints under large break loss-of-coolant accident conditions for steam generators A and B were within the allowable limits. Additional details may be found in FPC's letter dated October 19, 2001 (Adams Accession No. ML013610008).

FPC also reported observing the following degradation as a result of the steam generator tube inspection: volumetric indications in the transition regions of the roll and reroll joints; axial indications in the tube end regions; volumetric/intergranular attack indications at the first span; and circumferential, axial, and volumetric indications in various locations.

FPC plugged approximately 40 tubes, including a tube that was not expanded in the tubesheet, and a tube with a circumferential indication. This latter indication was located 0.78 inch below the top of the eighth tube support plate, which has a thickness of 1.5 inches. The indication was 0.23-inch in circumferential extent and exhibited a voltage of 0.57 volts. The indication was detected initially by the bobbin probe and subsequently confirmed by a plus point coil as a circumferential indication. The indication had axial branching and was in reality a mixed-mode indication. No other indications were detected in similar locations in other tube support plate locations. The indication was analyzed to be within the conditioning monitoring limits.

On the basis of the information discussed during the calls, the staff did not identify any issues requiring further discussion.

Mr. Dale E. Young
Florida Power Corporation

cc:

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