

June 16, 2006

Mr. J. A. Stall  
Senior Vice President, Nuclear and  
Chief Nuclear Officer  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, Florida 33408-0420

SUBJECT: ST. LUCIE PLANT, UNIT 2 - REQUEST FOR ADDITIONAL INFORMATION  
REGARDING 2005 STEAM GENERATOR TUBE INSPECTIONS  
(TAC NO. MC9192)

Dear Mr. Stall:

By letters dated February 11, 2005 (Agencywide Documents Access and Management System Accession Number ML0530550032), June 15, 2005 (ML051720461), and November 28, 2005 (ML053410482), Florida Power & Light Company, et al. (the licensee), submitted information summarizing the results of the 2005 steam generator tube inspections at St. Lucie Unit 2. These inspections were performed during the SL2-15 refueling outage. In addition to these reports, the U.S. Nuclear Regulatory Commission (NRC) staff participated in a conference call concerning the 2005 steam generator tube inspections at St. Lucie Unit 2. This conference call was summarized by the staff in a letter dated April 8, 2005 (ML051030078).

In order to complete its review of the SG inspection reports, the NRC staff has determined that more information is needed. Enclosed is the Request for Additional Information. This request was discussed with Mr. Ken Frehafer of your staff on May 30, 2006, and it was agreed that a response would be provided within 60 days from the receipt of this letter.

If you have any questions, please feel free to contact me at 301-415-3974.

Sincerely,  
*/RA/*

Brendan T. Moroney, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-389

Enclosure: As stated

cc w/encl: See next page

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ADAMS ACCESSION No.: ML061570234

NRR-088

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|--------|-----------|-----------|-----------------------------------|------------|
| OFFICE | LPL2-2/PM | LPL2-2/LA | CSGB/BC                           | LPL2-2/BC  |
| NAME   | BMoroney  | BClayton  | EMurphy (Acting)<br>by memo dated | MMarshall  |
| DATE   | 6 / 8 /06 | 6 / 7 /06 | 3 / 19 /06                        | 6 / 16 /06 |

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REQUEST FOR ADDITIONAL INFORMATION

ST. LUCIE NUCLEAR PLANT, UNIT 2

2005 STEAM GENERATOR TUBE INSPECTIONS

1. During the 2005 steam generator tube inspections a number of indications were coded as retest for clarification (RCL) because they were identified with a rotating probe as it was being removed from the tube at a rate greater than the rate at which the probe is qualified. The indications in question had not been identified during bobbin coil inspection. The Nuclear Regulatory Commission staff discussed these indications with representatives from St. Lucie during a conference call at the time of the outage. During the call the staff made several observations concerning the disposition of these flaws (refer to pages 5 and 6 of the Conference Call Summary dated, April 8, 2005 (ML50730197)). In light of these observations, summarize your basis for the approach taken to disposition the RCLs during your 2005 inspections.
2. A freespan axial indication was identified in the square bend region of steam generator B (R44C130). Has freespan cracking been identified in areas other than the square bend? If so, discuss the locations of the indications and the number of tubes affected.
3. Please discuss whether any crack-like indications were identified in the u-bend region of the low row tubes. If so, discuss the location and orientation of the indications and the basis for not expanding the scope of the inspection.
4. Please discuss whether any crack-like indications were identified in dents or dings? If so, discuss the size, location, and orientation of the flaw and the voltage amplitude of the dent/ding.
5. It is the staff's understanding that axial cracks have been identified in wear scars at St. Lucie 2. Please discuss whether there are any trends associated with the development of these cracks. For example, are the cracks more prevalent in the hot-leg or cold-leg side of the steam generator? Are the cracks associated with deeper wear scars?
6. Please discuss whether any crack-like indications were identified on the cold-leg side of the steam generator other than those identified at the eggcrate support and the diagonal strap.

Enclosure