

September 5, 2007

Robert J. Duncan II, Vice President  
Shearon Harris Nuclear Power Plant  
Carolina Power & Light Company  
Post Office Box 165, Mail Code: Zone 1  
New Hill, North Carolina 27562-0165

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 - REQUEST FOR  
ADDITIONAL INFORMATION REGARDING THE SPRING 2006 REFUELING  
OUTAGE 13 STEAM GENERATOR TUBE INSPECTIONS (TAC NO. MD5385)

Dear Mr. Duncan:

By letter dated May 5, 2006 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML061360488), Carolina Power & Light Company, the licensee, submitted the steam generator (SG) tube plugging report for Refueling Outage (RFO) 13 in accordance with Technical Specification (TS) Section 4.4.5.5.a. By letter dated April 20, 2007 (ADAMS Accession No. ML071160122), the licensee submitted the 12-month SG tube inservice inspection report for RFO 13 in accordance with TS Sections 4.4.5.5.b. Additional information regarding the SG tube inspections was provided in an inservice inspection report dated August 10, 2006 (ADAMS Accession No. ML062300078).

The Nuclear Regulatory Commission staff has determined that it needs additional information in order to complete its review. As agreed to by your staff, please respond by October 1, 2007, to the enclosed questions, which were sent electronically on August 15, 2007.

Please contact me at 301-415-3178 if you have any questions on this issue.

Sincerely,

/RA/

Marlayna Vaaler, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosure: As stated

cc: See next page

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\* by memo

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## REQUEST FOR ADDITIONAL INFORMATION

### SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

#### REFUELING OUTAGE 13 STEAM GENERATOR TUBE INSPECTIONS

##### DOCKET NO. 50-400

By letter dated May 5, 2006, Carolina Power & Light Company, the licensee, submitted the steam generator (SG) tube plugging report for Refueling Outage (RFO) 13 in accordance with Technical Specification (TS) Section 4.4.5.5.a. By letter dated April 20, 2007, the licensee submitted the 12-month SG tube inservice inspection report for RFO 13 in accordance with TS Sections 4.4.5.5.b. Additional information regarding the SG tube inspections was provided in an inservice inspection report dated August 10, 2006. Based on the review of the information provided by the licensee, the staff has determined that the following information is needed to complete their review.

1. On Page A1-2 of the letter dated April 20, 2007, you indicated that 10 tubes with loose part signals at the top of the tubesheet region on the hot-leg side of SG B were examined with a rotating coil. Please discuss the results of these rotating coil exams (i.e., were loose parts present, what were the loose parts, and were the loose parts removed), and discuss the results of any visual examinations in this area.  
  
In addition, were all known foreign objects (other than the foreign object wedged between Tube Row 60 Column 45 (R60C45) and Tube R59C46 in SG A) in all three SGs removed? If not, please discuss what foreign objects were left inservice and the criteria used to determine which foreign objects are acceptable to leave inservice.
2. Please confirm that the four tubes inspected with a rotating coil in SG A to bound the wedged foreign object were adjacent/nearby to Tubes R60C45 and R59C46 which were plugged.
3. In the letter dated April 20, 2007, you indicated that one tube with a distorted dent signal around the 9<sup>th</sup> support plate on the cold-leg side of SG B was examined with a rotating coil. Please discuss whether the signal at this location has changed since the baseline inspection. If so, discuss the reason for the change and the basis for concluding no tube-wall degradation existed at this location.
4. Please discuss whether the signal of the one tube examined by rotating coil in a slightly restricted area of the tube within the tubesheet in SG B has changed since the baseline inspection. If so, please discuss the reason for the change. In addition, what was the nature of the signal?
5. In the letter dated April 20, 2007, you indicated that two tubes on the hot-leg side and three tubes on the cold-leg with dent signals, located by the 8<sup>th</sup> and 9<sup>th</sup> tube support plates of SG C, were examined with a rotating coil. Please discuss whether the signals at these locations have changed since the baseline inspection. If so, discuss the reason for the changes and the basis for concluding no tube-wall degradation existed at these locations.

Enclosure