



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 30, 2011

Mr. David A. Heacock  
President and Chief Nuclear Officer  
Virginia Electric and Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

SUBJECT: SURRY POWER STATION, UNIT NO. 1 (SURRY UNIT 1) – REQUEST FOR  
ADDITIONAL INFORMATION (RAI) REGARDING THE 2010 STEAM  
GENERATOR (SG) INSPECTIONS (TAC NO. ME6375)

Dear Mr. Heacock:

By letter dated May 24, 2011, Virginia Electric and Power Company (the licensee) submitted SG tube inspection results from the 2010 inspections at Surry Unit 1.

The Nuclear Regulatory Commission staff has reviewed the information the licensee provided and determined that additional information is required in order to complete the evaluation. The requested additional information is enclosed. Please respond within 30 days of the date of this letter.

If you have any questions, please feel free to contact me at 301-415-1438.

Sincerely,

A handwritten signature in cursive script that reads "Karen Cotton".

Karen Cotton, Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-280

Enclosure:  
RAI

cc w/ encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

2010 STEAM GENERATOR INSPECTIONS

SURRY POWER STATION, UNIT NO. 1 (SURRY UNIT 1)

DOCKET NO. 50-280

By letter dated May 24, 2011 (Agencywide Documents Access and Management System (ADAMS) Accession Number ML11154A101), Virginia Electric and Power Company (the licensee) submitted steam generator (SG) tube inspection results from the 2010 inspections at Surry Unit 1. In order to complete its review of the documents listed above, the Nuclear Regulatory Commission staff needs the following additional information:

1. You state in your letter that the fall 2010 outage was the last outage in the 3<sup>rd</sup>, 60 effective full power month inspection period. Please clarify whether you met your technical specification requirement to inspect 100 percent of the tubes by the end of the inspection period (or a prorated sample percentage as discussed in Regulatory Information Summary 2009-04, "Steam Generator Tube Inspection Requirements," (ADAMS Accession Number ML083470557) with techniques capable of finding the forms of degradation to which the tubes are potentially susceptible.
2. Please discuss the results of the foreign object search and retrieval inspections that were performed in the three SGs. Also, please clarify whether you did the foreign object search and retrieval inspection before or after the replacement of the SG feedings.
3. Previous dents whose voltages exceeded two volts were inspected with a rotating probe. Please discuss what percentage of the dent population was inspected. Please discuss whether any new dents were identified during the 2010 inspections. If new dents were detected, please discuss whether they were inspected with a rotating probe. If not inspected with a rotating probe, discuss the basis for not performing such inspections.
4. In Table 9, there are several indications in SG B that showed a change between a prior inspection and the 2010 inspection. For these locations, no foreign object is listed at these locations. Were these locations visually inspected? Was a loose part or parts removed from these locations? If not, what caused the change in the eddy current signal? What were the magnitudes of the changes in the signal? If these indications continued to grow, would the tubes still have adequate integrity at the time of the next inspection?
5. Were any other secondary side inspections (other than those listed on page 4) performed (e.g., steam drum)? If so, discuss the scope and results of these inspections.

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*/RA/*

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ADAMS Accession No. ML11320A015

\*transmitted by memo dated November 7, 2011

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