



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
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December 7, 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: NORTH ANNA POWER STATION, UNIT NO. 2, SUMMARY OF CONFERENCE  
CALL REGARDING THE 2011 STEAM GENERATOR TUBE INSPECTION  
RESULTS (TAC NO. ME7245)

Dear Mr. Heacock:

The U.S. Nuclear Regulatory Commission (NRC) staff formally reviews all steam generator (SG) inservice inspection summary reports submitted by licensees in accordance with the plant's Technical Specification requirements. The NRC staff also participates in conference calls with most licensees when approximately 70 percent of the SG tube inspections are completed. On October 5, 2011, the NRC staff participated in a conference call with Virginia Electric and Power Company representatives regarding the ongoing SG tube inspection activities for North Anna Power Station, Unit No. 2. The summary of the conference call is enclosed.

Please contact me at (301) 415-2597, if you have any questions regarding this issue.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Sreenivas", with a long horizontal flourish extending to the right.

V. Sreenivas, Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-339

Enclosure:  
Summary of Conference Call

cc w/encl: Distribution via Listserv

SUMMARY OF CONFERENCE CALL WITH  
NORTH ANNA POWER STATION, UNIT NO. 2  
REGARDING THE 2011 STEAM GENERATOR TUBE INSPECTION RESULTS  
DOCKET NO. 50-339

On October 5, 2011, the Nuclear Regulatory Commission (NRC) staff participated in a conference call with representatives of Virginia Electric and Power Company, LLC (the licensee), regarding their ongoing steam generator (SG) tube inspection activities at North Anna Power Station (NAPS), Unit No. 2. A summary of the conference call is enclosed. The NRC staff provided an agenda to the licensee via email on October 4, 2011 (Agencywide Documents Access Management System (ADAMS) Accession No. ML11277A286).

NAPS Unit No. 2 has three Model 54F Westinghouse recirculating SGs, which are designated A, B, and C. Each SG contains 3592 thermally treated Inconel 690 tubes, which have a nominal outside diameter of 0.875 inches and a nominal wall thickness of 0.050 inches. The tubes have been hydraulically expanded into the tubesheet and the stainless steel Type 405 tube support plates contain broached quatrefoil holes. These replacement SGs began operation in 1995.

Additional clarifying information or information not included in the document provided by the licensee is summarized below:

- At the time of the call, the SG inspections had already been completed.
- There was zero primary-to-secondary leakage detected in the previous operating cycle.
- No secondary side pressure tests were performed during the current outage.
- No exceptions were taken to the industry guidelines.
- The inspection scope in the current outage was 100-percent bobbin coil examination from tube end to tube end in SGs A and C. An inspection was also performed to detect loose parts and loose part wear using a rotating pancake coil (RPC) probe on approximately 570 tubes in both the hot-leg and cold-leg of SGs A and C. The 570 tubes represent a 50-percent sample of the peripheral tubes (5 tubes deep) on the hot-leg and cold-leg of SGs A and C. In addition, approximately 350 additional tubes, internal to the tube bundle, were RPC tested on the hot-leg side of SGs A and C, also screening for loose parts and loose part wear. The bobbin coil examination was also used to detect loose parts.
- No new dents or dings were found by the inspections in SGs A and C and historical dents and dings showed no indication of growth.
- No tubes were plugged and no in-situ pressure testing or tubes pulls were performed.

Enclosure

- Secondary side inspections of SGs A and C included visual examination of the steam drum, J-nozzles, and feedring, as well as ultrasonic testing examination of feedring. Additionally, the primary and secondary moisture separators were visually inspected in SGs A and C.

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\*by memo transmitted 10/17/11

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