

March 28, 2003

Mr. David A. Christian  
Sr. Vice President and Chief Nuclear Officer  
Virginia Electric and Power Company  
5000 Dominion Blvd.  
Glen Allen, Virginia 23060-6711

SUBJECT: SURRY POWER STATION, UNIT 1 - UPCOMING STEAM GENERATOR TUBE  
INSERVICE INSPECTION

Dear Mr. Christian:

Inservice inspections of steam generator (SG) tubes play a vital role in assuring that adequate structural integrity of the tubes is maintained. As required by the plant Technical Specifications, reporting requirements range from submitting a special report within 15 days following completion of each inservice inspection of SG tubes that identifies the number of tubes plugged and/or repaired, to submitting a special report within 12 months following completion of the inspection that provides complete results of the SG tube inservice inspection. The special report containing the complete results shall include the following:

1. Number and extent of tubes inspected.
2. Location and percent of wall-thickness penetration for each indication of an imperfection.
3. Identification of tubes plugged and/or repaired.

A phone conference has been arranged with members of your staff and the Materials and Chemical Engineering Branch of the Office of Nuclear Reactor Regulation to discuss the ongoing results of the SG tube inspections to be conducted during the upcoming Surry Power Station, Unit 1, refueling outage. This phone call will occur after the majority of the tubes have been inspected, but before the SG inspection activities have been completed. Enclosed is a list of discussion points to facilitate this phone conference. A draft of the discussion points was faxed to Mr. Gary Miller of your staff on March 25, 2003.

D. A. Christian

- 2 -

The NRC staff plans to document a brief summary of the conference call as well as any material that you may have provided to the staff in support of the call. If you have any questions regarding this activity, please call me at 301-415-1055.

Sincerely,

*/RA/*

Christopher Gratton, Senior Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket No. 50-280

Enclosure: Discussion Points

cc w/encl: See next page

D. A. Christian

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DATE	3/26/2003	3/26/2003	3/26/2003	3/26/2003

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STEAM GENERATOR TUBE INSPECTION DISCUSSION POINTS

PREPARED BY THE OFFICE OF NUCLEAR REACTOR REGULATION

VIRGINIA ELECTRIC AND POWER COMPANY

SURRY POWER STATION, UNIT 1

DOCKET NO. 50-280

The following discussion points have been prepared to facilitate the phone conference arranged with the Surry Power Station, Unit 1, licensee to discuss the results of the steam generator (SG) tube inspections to be conducted during the upcoming Surry Power Station, Unit 1, refueling outage. This phone call is scheduled to occur towards the end of the planned SG tube inspection interval, but before the unit exits its refueling outage.

The NRC staff plans to document a brief summary of the conference call as well as any material that may be provided to the NRC staff in support of the call.

1. Discuss whether any primary-to-secondary leakage existed in this unit prior to shutdown.
2. Discuss the results of secondary side pressure tests.
3. For each SG, provide a description of areas examined, including the expansion criteria utilized and type of probe used in each area. Also, be prepared to discuss your inspection of the tube within the tubesheet, particularly the portion of the tube below the expansion/transition region.
4. Discuss any exceptions taken to the industry guidelines.
5. Provide a summary of the number of indications identified to date of each degradation mode and SG tube location (e.g., tube support plate, top of tubesheet, etc.). Also provide information such as voltages and estimated depths and lengths of the most significant indications.
6. Describe repair/plugging plans for the SG tubes that meet the repair/plugging criteria.
7. Discuss the previous history of SG tube inspection results, including any "look backs" performed. Specifically discuss significant indications or indications where look backs are used in support of dispositioning (e.g., manufacturing burnish marks).
8. Discuss, in general, new inspection findings (e.g., degradation mode or location of degradation new to this unit).

Enclosure

9. Discuss your use or reliance on inspection probes (eddy current or ultrasonic) other than bobbin and typical rotating probes, if applicable.
10. Describe in-situ pressure test plans and results, if applicable and available, including tube selection criteria.
11. Describe tube pull plans and preliminary results, if applicable and available; include tube selection criteria.
12. Discuss the assessment of tube integrity for the previous operating cycle (i.e., condition monitoring).
13. Provide the schedule for SG-related activities during the remainder of the current outage.
14. Once-Through SGs - if you have Babcock and Wilcox (B&W) welded plugs installed in the SGs, be prepared to discuss the actions taken in response to Framatome's notification of the effect of tubesheet hole dilation on the service life of B&W welded plugs.
15. Once-Through SGs - describe your inspection/plugging plans with respect to the industry-identified severed tube issue (NRC Information Notice (IN) 2002-02 and IN 2002-02, Supplement 1).
16. If SGs contain thermally treated tubing (Alloy 600 or 690), discuss actions taken (if any) based on Seabrook's recent findings (Reference IN 2002-21).

Mr. David A. Christian  
Virginia Electric and Power Company

Surry Power Station

cc:

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