

**From:** Hon, Andrew  
**Sent:** Thursday, April 02, 2015 8:42 AM  
**To:** Shea, Joseph W (jwshea@tva.gov)  
**Cc:** Helton, Shana; Hess, Thomas A (tahess@tva.gov); Johnson, Andrew  
**Subject:** SEQUOYAH NUCLEAR STATION, UNIT 2 – REQUEST FOR ADDITIONAL INFORMATION RELATED TO SPRING 2014 STEAM GENERATOR INSPECTIONS REPORT REVIEW (TAC NO. MF5422)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

**ADAMSAccessionNumber:** ML15092A173

Mr. Joseph W. Shea  
Vice President, Nuclear Licensing  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

**SUBJECT:** SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2, – REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE SPRING 2014 STEAM GENERATOR TUBE INSPECTIONS (TAC NO. MF5422)

Dear Mr. Shea:

In a letter dated December 1, 2014, (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML14342B004), Tennessee Valley Authority (TVA or the licensee) submitted information summarizing the results of the spring 2014 steam generator tube inspections performed at Sequoyah Nuclear Plant, Unit 2. These inspections were performed during refueling outage 19.

The U.S. Nuclear Regulatory Commission (NRC) staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed below. The proposed questions were discussed by telephone with your staff on April 1, 2015. Your staff confirmed that these questions did not include proprietary or security-related information and agreed to provide a response in 60 days from this request for additional information (RAI), due to upcoming refueling outage.

The NRC staff considers that timely responses to RAIs help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the agreed upon response date, please contact me at (301) 415-8480 or via e-mail [Andrew.Hon@nrc.gov](mailto:Andrew.Hon@nrc.gov).

Sincerely,

*R/A*

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

Docket Nos. 50-327 and 50-328

Accession No. ML15092A173

REQUEST FOR ADDITIONAL INFORMATION  
SPRING 2014 STEAM GENERATOR INSPECTIONS  
SEQUOYAH NUCLEAR PLANT, UNIT 2  
DOCKET NO. 50-328  
TAC NO. MF5422

1. General information concerning the design of your replacement steam generators (SGs) was provided in the submittal. In order for the staff to better understand the design of your replacement SGs, please provide the following information:
  - a. A tubesheet map depicting the row and column numbers
  - b. Tube pitch (e.g., triangular, 1.00-inch center-to-center)
  - c. Expansion method and extent (e.g., hydraulic expansion for the full length of the tubesheet)
  - d. Tube support plate and U-bend support material and design
  - e. Flow distribution baffle design, if applicable
  - f. Whether tubes were stress relieved after bending, and if so, the rows that were stress relieved
  - g. The smallest U-bend radius
  - h. Tubesheet thickness with and without clad
  - i. The naming convention for the U-bend support structures and a more detailed diagram (since it appears that there are various supports running between the vertical straps within the tube bundle)
2. Please discuss the results of the foreign object search and retrieval inspections.
3. Please clarify Table 2-1 since the "planned exams" and "tests acquired" columns do not match. Please confirm all tubes were inspected and analyzed full length with a bobbin coil. Please clarify the number of tubes inspected with an array probe in both the hot leg and cold leg in all four SGs.