

October 19, 2006

Mr. Karl W. Singer  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: SEQUOYAH NUCLEAR PLANT, UNIT 2 — REQUEST FOR ADDITIONAL  
INFORMATION REGARDING THE 2005 STEAM GENERATOR TUBE  
INSPECTIONS (TAC NO. MD0508)

Dear Mr. Singer:

By letters dated May 31, 2005 (ML051600187 [Agencywide Documents Access and Management System Accession Number]), August 10, 2005 (ML052350675), August 15, 2005 (ML052340503), February 22, 2006 (ML060540467), and March 2, 2006 (ML060740605), Tennessee Valley Authority (TVA, the licensee) submitted information concerning the 2005 steam generator (SG) tube inspections at Sequoyah Nuclear Plant, Unit 2. In addition to these reports, the Nuclear Regulatory Commission (NRC) staff summarized additional information concerning the 2005 SG tube inspection in a letter dated July 8, 2005 (ML051810694).

In a letter dated May 1, 2006 (ML060960158), the NRC staff documented its review of the May 31, 2005, August 15, 2005, and February 22, 2006 letters pertaining to implementation of the voltage-based and W\* alternate repair criteria.

In order for the staff to complete its review of the information provided by the licensee, we request that TVA provide responses to the enclosed request for additional information (RAI). Based on discussions with your staff, we understand that you plan to respond to the enclosed RAI within 60 days of receipt of this letter. If you have any questions about this material, please contact me at (301) 415-1364.

Sincerely,

*/RA/*

Douglas V. Pickett, Senior Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No: 50-328

Enclosure: As stated

cc w/enclosure: See next page

October 19, 2006

Mr. Karl W. Singer  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: SEQUOYAH NUCLEAR PLANT, UNIT 2 — REQUEST FOR ADDITIONAL  
INFORMATION REGARDING THE 2005 STEAM GENERATOR TUBE  
INSPECTIONS (TAC NO. MD0508)

Dear Mr. Singer:

By letters dated May 31, 2005 (ML051600187 [Agencywide Documents Access and Management System Accession Number]), August 10, 2005 (ML052350675), August 15, 2005 (ML052340503), February 22, 2006 (ML060540467), and March 2, 2006 (ML060740605), Tennessee Valley Authority (TVA, the licensee) submitted information concerning the 2005 steam generator (SG) tube inspections at Sequoyah Nuclear Plant, Unit 2. In addition to these reports, the Nuclear Regulatory Commission (NRC) staff summarized additional information concerning the 2005 SG tube inspection in a letter dated July 8, 2005 (ML051810694).

In a letter dated May 1, 2006 (ML060960158), the NRC staff documented its review of the May 31, 2005, August 15, 2005, and February 22, 2006 letters pertaining to implementation of the voltage-based and W\* alternate repair criteria.

In order for the staff to complete its review of the information provided by the licensee, we request that TVA provide responses to the enclosed request for additional information (RAI). Based on discussions with your staff, we understand that you plan to respond to the enclosed RAI within 60 days of receipt of this letter. If you have any questions about this material, please contact me at (301) 415-1364.

Sincerely,

**/RA/**

Douglas V. Pickett, Senior Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No: 50-328

Enclosure: As stated

cc w/enclosure: See next page

**DISTRIBUTION:**

PUBLIC	LPL2-2 r/f	RidsOgcRp
RidsAcrsAcnwMailCenter	RidsNrrDorlLpl2-2	KKarwoski
RidsNrrLACSola	RidsNrrPMDPickett	RidsRgn2MailCenter

ADAMS ACCESSION NUMBER: ML062840715

NRR-088

OFFICE	LPL2-2	LPL2-2/PM	LPL2-2/LA	CSGB/BC	LPL2-2/BC
NAME	JPaige	DPickett	RSola	AHiser as signed on	LRaghavan
DATE	10/18/06	10/18/06	10/19/06	09/28/06	10/19/06

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION

SEQUOYAH NUCLEAR PLANT, UNIT 2

2005 STEAM GENERATOR TUBE INSPECTIONS

DOCKET NO. 50-328

1. Please discuss the scope and results of your foreign object search and retrieval. If any loose parts were left in the steam generator, please discuss whether any analyses were performed to confirm that tube integrity would not be compromised for the time interval between inspections. In addition, if the locations corresponding to any potential loose part indications (detected via eddy current inspection) could not be visually inspected, please discuss your basis for dispositioning these tubes (if they were not plugged/stabilized).
2. It was indicated that +Point™ examinations were performed on new indications of cold-leg thinning to confirm that the indication is not crack-like. Please discuss how you confirm that historic indications have not developed crack-like indications (e.g., do you perform rotating probe examinations on a sample of these indications to confirm the absence of cracking). Similarly discuss how you ensure that other volumetric indications (such as wear at anti-vibration bars) do not contain (or have not developed) crack-like indications.
3. Several tubes with axially oriented outside diameter stress corrosion cracking were preventively plugged due to the potential for extreme voltage growth. Please provide the bobbin and rotating probe voltages for these indications.
4. One tube was preventively plugged since it was not fully expanded into the tubesheet. Please discuss whether all tubes currently in service have nominally been expanded for the full depth of the hot-leg tubesheet.

Enclosure

Mr. Karl W. Singer  
Tennessee Valley Authority

**SEQUOYAH NUCLEAR PLANT**

cc:

Mr. Ashok S. Bhatnagar, Senior Vice President  
Nuclear Operations  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. Glenn W. Morris, Manager  
Corporate Nuclear Licensing  
and Industry Affairs  
Tennessee Valley Authority  
4X Blue Ridge  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. Larry S. Bryant, Vice President  
Nuclear Engineering & Technical Services  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. Paul L. Pace, Manager  
Licensing and Industry Affairs  
ATTN: Mr. James D. Smith  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Soddy Daisy, TN 37384-2000

Mr. Robert J. Beecken, Vice President  
Nuclear Support  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Mr. David A. Kulisek, Plant Manager  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Soddy Daisy, TN 37384-2000

Mr. Randy Douet  
Site Vice President  
Sequoyah Nuclear Plant  
Tennessee Valley Authority  
P.O. Box 2000  
Soddy Daisy, TN 37384-2000

Senior Resident Inspector  
Sequoyah Nuclear Plant  
U.S. Nuclear Regulatory Commission  
2600 Igou Ferry Road  
Soddy Daisy, TN 37379

General Counsel  
Tennessee Valley Authority  
ET 11A  
400 West Summit Hill Drive  
Knoxville, TN 37902

Mr. Lawrence E. Nanney, Director  
Division of Radiological Health  
Dept. of Environment & Conservation  
Third Floor, L and C Annex  
401 Church Street  
Nashville, TN 37243-1532

Mr. John C. Fornicola, Manager  
Nuclear Assurance and Licensing  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

County Mayor  
Hamilton County Courthouse  
Chattanooga, TN 37402-2801

Ms. Ann P. Harris  
341 Swing Loop Road  
Rockwood, Tennessee 37854