



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET SW SUITE 23T85  
ATLANTA, GEORGIA 30303-8931**

July 30, 2004

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

**SUBJECT: NOTIFICATION OF WATTS BAR NUCLEAR PLANT - REVIEW OF GENERIC  
LETTER 89-13: SERVICE WATER SYSTEM PROBLEMS AFFECTING  
SAFETY-RELATED EQUIPMENT INSPECTION**

Dear Mr. Singer:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a review of Generic Letter 89-13, Service Water System Problems Affecting safety-related Equipment, at your Watts Bar Nuclear Plant during the week of October 18, 2004. A group of four inspectors will perform this inspection. The inspection will be led by Mr. Michael A. Scott, a Senior Reactor Inspector from the NRC Region II Office. This inspection will be conducted in accordance with a Temporary Instruction (TI) "Review of Generic Letter 89-13: Service Water System Problems Affecting safety-related Equipment."

The objective of this TI is to support the NRC review of licensee's activities in response to NRC generic communications. This TI will gather information to help the NRC staff identify and shape possible future regulatory positions and enhance the agency operating experience program. The inspection will verify actions implemented in response to NRC Generic Letter 89-13 are programmatically controlled and have been maintained effectively.

During a telephone conversation on July 20, 2004, Mr. Paul Pace of your staff and myself, confirmed arrangements for the week onsite inspection (October 18 - 22, 2004) and the information request is enclosed. The purpose of the request is to obtain information and documentation, outlined in the Enclosure, that is needed to support the inspection. Please contact Mr. Scott prior to preparing copies of the materials listed in the Enclosure. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation. Please provide the information requested by October 5, 2004.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact us.

Sincerely,

\\RA\\

Mark S. Lesser, Chief  
Engineering Branch 2  
Division of Reactor Safety

Docket Nos.: 50-390, 50-391  
License Nos.: NPF-90, NPF-91

Enclosure: Information Request for the TI, Review of Generic Letter 89-13: Service Water  
System Problems Affecting Safety-Related Equipment  
w/Attachment: Supplemental Information

cc w/encl: (See page 3)

TVA

3

cc w/encl:

Ashok S. Bhatnagar  
Senior Vice President  
Nuclear Operations  
Tennessee Valley Authority  
Electronic Mail Distribution

James E. Maddox, Vice President  
Engineering and Technical Services  
Tennessee Valley Authority  
Electronic Mail Distribution

William R. Lagergren  
Site Vice President  
Watts Bar Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

General Counsel  
Tennessee Valley Authority  
Electronic Mail Distribution

Thomas J. Niessen, Acting General  
Manager  
Nuclear Assurance  
Tennessee Valley Authority  
Electronic Mail Distribution

Mark J. Burzynski, Manager  
Nuclear Licensing  
Tennessee Valley Authority  
Electronic Mail Distribution

Paul L. Pace, Manager  
Licensing and Industry Affairs  
Watts Bar Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

Larry S. Bryant, Plant Manager  
Watts Bar Nuclear Plant  
Tennessee Valley Authority  
Electronic Mail Distribution

County Executive  
Rhea County Courthouse  
375 Church Street, Suite 215  
Dayton, TN 37321-1300

County Mayor  
P. O. Box 156  
Decatur, TN 37322

Lawrence E. Nanney, Director  
TN Dept. of Environment & Conservation  
Division of Radiological Health  
Electronic Mail Distribution

Ann Harris  
341 Swing Loop  
Rockwood, TN 37854

James H. Bassham, Director  
Tennessee Emergency Management  
Agency  
Electronic Mail Distribution

**INFORMATION REQUEST FOR TEMPORARY INSTRUCTION, REVIEW OF GENERIC  
LETTER 89-13: SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED  
EQUIPMENT INSPECTION**

\*Please provide the information electronically in searchable “.pdf” files on CDROM if possible. The CDROM should be indexed and hyperlinked to facilitate ease of use. Information in “lists” should contain enough information to be easily understood by someone who has a knowledge of pressurized water reactor technology. Hard copies are an acceptable alternative for those items which are difficult to place on CDROM.

\*Time frame for data will be the last three years . Selected heat exchangers are all safety-related heat exchangers (HXs) cooled by the Service Water (SW) system.

1. Piping and instrumentation drawings for SW system (Paper copies (2) are preferred for these).
2. Plant Technical Specifications, Bases, and Technical Requirements Manual sections involving SW.
3. A current copy of the Updated Final Safety Analysis Report including the “living” FSAR sections affecting SW.
4. System description/design basis document for SW.
5. Operator training modules for SW.
6. Response(s) for Generic Letter 89-13 and any commitment changes since.
7. Design information associated with all safety-related (SR) HXs fed by SW.
8. Tube plugging information for all SR HXs fed by SW, as applicable.
9. List of testing/inspections performed to assure ultimate heat sink performance, such as SW intake inspections, special erosion/corrosion inspections, flow balance tests, piping inspections, fouling inspections, pond/dam inspections, etc. and a copy of the associated procedures for these tests/inspections.
10. List of surveillances and a copy of associated procedures used to ensure the operability of SW equipment and test result data.
11. Heat exchanger (HX) performance data such as heat transfer tests, chemistry data, PM information, as applicable for all SR HXs fed by SW.
12. Trending data for these SR HXs.
13. The normal operating procedures for the SW system. Include the procedures which specify the normal valve alignment for this system.
14. Emergency Operating Procedures (EOPs), Abnormal Operating Procedures (AOPs), and Alarm Response Procedures involving SW. Note: Please make available, onsite during the inspection, the supporting documents such as the EOP basis documents, step deviation document, writers guide, users guide, and calculations used to support the setpoints in EOPs.
15. A list of engineering calculations applicable to SW.
16. A list of temporary modifications and operator work-arounds involving SW.
17. A list of operability determinations involving SW.
18. Lists of corrective action program documents, LERs, findings, and non-routine work requests initiated for SW system and components.
19. System Health Reports and system performance trends for SW.

Enclosure

20. A copy of the Maintenance Rule program procedure and performance criteria for SW and a list of Maintenance Rule functional failures for SW.
21. Quality Assurance audits, self-assessments and third party assessments performed on SW.
22. A list of Operating Experience Program evaluations of industry, vendor, or NRC generic issues.
23. A list of all SW permanent plant changes, design changes, setpoint changes, major procedure changes, equivalency evaluations, suitability analyses, and commercial grade dedications.
24. A copy of plant procedures that provide the guidelines for the following programs: 1) Corrective Action Program, 2) Program for the evaluation of changes, tests, and experiments [50.59 Program] 3) Program for the incorporation of local and industry operating experience into Farley programs and procedures.
25. A list of SW vendor manuals. Note: Please provide access to these manuals during the inspection onsite.
26. A list of maintenance activities that are conducted which are pertinent to SW.
27. Provide access to operator logs during the onsite inspection.

Enclosure