

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157A Lookout Place

**APR 18 1989**

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Gentlemen:

In the Matter of  
Tennessee Valley Authority

)  
)

Docket No. 50-328

SEQUOYAH NUCLEAR PLANT (SQN) - NRC BULLETIN 88-08, THERMAL STRESSES IN PIPING  
CONNECTED TO REACTOR COOLANT SYSTEMS

Reference: TVA letter to NRC dated January 10, 1989

As required in item 2 of the reporting requirements section of the subject  
bulletin, this submittal confirms that action item 2 has been completed for  
SQN unit 2.

Nondestructive examination (NDE) was completed for 33 welds, including the  
normal and alternate charging path welds, on March 14, 1989. No indications  
caused by thermal stresses were found. Two liquid penetrant examinations  
revealed indications exceeding the acceptance criteria: one was due to the  
fitting forging process, and the other was due to arc strike trail-off. The  
two indications have been repaired by light grinding or filing. The enclosure  
lists a summary of the NDEs that were performed.

NDE was not performed on the base material of the elbows in the normal and  
alternate charging lines. Although TVA committed to nondestructively examine  
these lines, it has been determined that the stresses from temperature  
stratification or temperature oscillations are insignificant because of the  
short lengths of piping involved. The commitment, therefore, was beyond the  
requirements of the bulletin.

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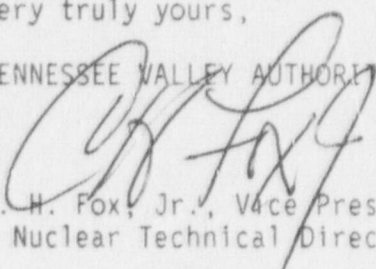
U.S. Nuclear Regulatory Commission

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No commitments are contained in this submittal. Please direct questions concerning this issue to K. S. Whitaker at (615) 843-7748.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
C. H. Fox, Jr., Vice President and  
Nuclear Technical Director

Sworn to and subscribed before me  
this 18<sup>th</sup> day of April, 1989

Paulette H. White  
Notary Public  
My Commission Expires 11-4-92

Enclosure

cc (Enclosure):

Ms. S. C. Black, Assistant Director  
for Projects  
TVA Projects Division  
U.S. Nuclear Regulatory Commission  
One White Flint, North  
11555 Rockville Pike  
Rockville, Maryland 20852

Ms. L. J. Watson, Acting Assistant Director  
for Inspection Programs  
TVA Projects Division  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Sequoyah Resident Inspector  
Sequoyah Nuclear Plant  
2600 Igou Ferry Road  
Soddy Daisy, Tennessee 37379

ENCLOSURE

SON UNIT 2  
 NONDESTRUCTIVE EXAMINATIONS COMPLETED  
 MARCH 14, 1989

The following welds were nondestructively examined by liquid penetrant examination using a procedure qualified to Sections V and XI of the American Society of Mechanical Engineers (ASME) code, 1977 edition with addenda through the summer of 1978.

CVCW-4	CVC-1746	SI-1816
CVCF-213	CVC-1747	SI-1817
CVCF-214	SIW-01	SI-1818
CVCF-246	SIW-02	SI-1894
CVCF-246A	SIW-03	SI-1895
CVCF-247	SIW-04	SI-1896
CVCS-414	SI-1123	SI-1897
CVC-1742	SI-1124	SI-1898
CVC-1743	SI-1125	SI-1899
CVC-1744	SI-1126**	SI-1900
CVC-1745*	SI-1815	SI-1901

\*CVC-1745 - Penetrant test (PT) examination revealed an indication determined to be caused by arc strike trail-off.

\*\*SI-1126 - PT examination revealed an indication caused by the forging process.

The following welds were ultrasonically examined. These examinations were performed using a procedure qualified to Sections V and XI of the ASME code, 1977 edition with addenda through the summer of 1978. Enhanced techniques similar to those recommended in NRC Bulletin 88-08, supplement 2, were used.

Weld	Scan Limitations
CVCF-213	Limited coverage because of valve and intrados of elbow
CVCF-214	Limited coverage because of nozzle and intrados of elbow
CVCF-246	Limited coverage because of valve and intrados of elbow
CVCF-246A	None
CVCF-247	Limited coverage because of nozzle
CVCS-414	Limited coverage because of intrados of elbow