

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 25, 1982



U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

**WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - FAULTY FILLET WELDS -  
NCR 2111R - NINTH INTERIM REPORT**

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on February 20, 1980 in accordance with 10 CFR 50.55(e) in conjunction with similar deficiencies designated as NCR's 2806R, 2091R, 2101R, 2120R, 2128R, 2137R, and 2375R. Interim reports were submitted on March 19, May 6, August 8, and October 31, 1980 and February 6, June 17, October 13, and December 23, 1981. We expect to provide additional information by April 21, 1982.

Nonconforming condition report (NCR) 2111R documents a QA program breakdown in the inspection of ASME Code fillet welds used on socket weld fittings on branch connections to process piping. The inspection requirements for these welds are defined in General Construction Specification G-29M. To date, over 10,600 welds have been identified as requiring additional weld metal. Of these, approximately 8700 have been repaired. TVA is continuing the program for inspection and repair or disposition of these welds. In isolated cases, socket welds are accessible for inspection but not accessible for addition of filler metal. These situations will be documented on NCRs and referred to the Division of Engineering Design (EN DES) for disposition.

Nonconforming Condition Report 2375R documents a similar deficiency with fillet welds on cable tray supports, conduit supports and miscellaneous steel. The inspection requirements for these welds are defined in General Construction Specification G-29C. Welds had been previously accepted but did not meet the requirements for visual examination. This conclusion was determined from a random sample. Seventy cable tray supports were inspected, nonconformed, and referred to the design project organization for disposition. These welds were subsequently dispositioned "use as is" based on reanalysis of the supports showing that the supports were adequate for design loadings. The defects reported included oversized welds,

8203080537 820225  
PDR ADOCK 05000390  
S PDR

UNOFFICIAL COPY  
IE 27  
5/10

Mr. James P. O'Reilly, Regional Administrator

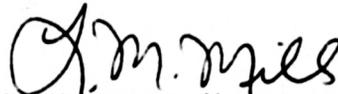
February 25, 1982

overlap, poor surface conditions, lack of fusion, and weld spatter. No excess undercut, porosity, weld craters, excess convexity, or arc strikes were reported. Forty conduit supports were inspected and eight were nonconformed. Twenty-two miscellaneous steel items were inspected, and 13 were nonconformed. Further corrective measures are pending, based on the results of EN DES evaluation and disposition.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager  
Nuclear Regulation and Safety

cc: Mr. Richard C. DeYoung, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555