

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 18, 1981

WBRD-50-390/81-44

WBRD-50-391/81-43

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

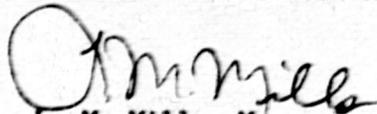
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - CVCS ANALYTICAL PIPING MODEL ERRORS  
- WBRD-50-390/81-44 AND WBRD-50-391/81-43 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on April 28, 1981, in accordance with 10 CFR 50.55(e) as NCR WBN CEB 8107. Interim reports were submitted on May 28 and July 24, 1981. Enclosed is our third interim report. We expect to submit our next report by December 10, 1981.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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ENCLOSURE  
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
CVCS ANALYTICAL PIPING MODEL ERRORS  
WBRD-50-390/81-44 AND WBRD-50-391/81-43  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

The present analytical model of piping problem N3-62-5A does not match the piping design configuration. A portion of the piping system was modeled with the wrong insulation weight. Various portions of the piping model have geometry errors such as overlapping pipe members. The analysis errors could produce unconservative stress results.

The piping model of problem N3-62-10A did not include valve weights. There are seven valves in this piping problem. The omission of the valve weights could produce unconservative stress results.

The piping problems are analytical computer models of portions of the chemical and volume control system (CVCS). The analysis errors mentioned above were discovered during an analysis review.

Interim Progress

TVA has reanalyzed these piping problems (N3-62-5A, -10A) with the correct data and is currently performing a final review before issuing the analytical model of the piping.