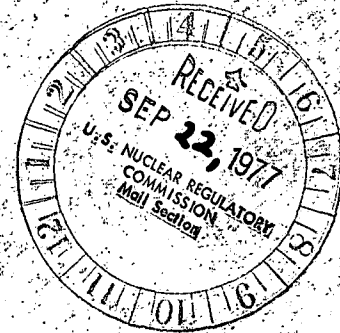


TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

SEP 9 1977



Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 1217
230 Peachtree Street, NW.
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - REPORTABLE DEFICIENCY -
CODING ERROR IN RESPONSE SPECTRUM ANALYSIS PORTION OF TPIPE
COMPUTER PROGRAM - NCR 10

The subject deficiency was initially reported to NRC-OIE Region II, Inspector J. K. Rausch, on August 10, 1977, in accordance with 10 CFR 50.55(a). The following is our first interim report on this deficiency.

TVA has discovered a coding error in the response spectrum analysis of the TPIPE computer program which employs NRC closely spaced nodes techniques to combine nodal responses. This error may have an impact on nodal displacements and accelerations of analyses using this technique. However, pipe member forces (stresses) and reactions are unaffected by the error and are correct. The TPIPE program was used to evaluate ten plant piping system problems. A reanalysis is being performed to determine the impact of this deficiency and will be completed by July 1978.

Our final report on this deficiency is anticipated to be transmitted to your office by August 1, 1978.

Very truly yours,

J. E. Gilleland
Assistant Manager of Power

cc: Dr. Ernst Volgenau, Director ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

September 9, 1977

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