

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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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 - TVA PIPING ANALYZED USING  
UNVERIFIED TPIPE PROGRAM - NCR CWB 78-1 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
Bruce Cochran on April 5, 1978. Enclosed is our first interim report.  
We expect to submit our next report by June 16, 1978.

Very truly yours,

J. E. Gilleland  
Assistant Manager of Power

Enclosure

cc: Dr. Ernst Volgenau, 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  
TVA PIPING ANALYZED USING UNVERIFIED TPIPE  
PROGRAM - NCR CWB 78-1

FIRST INTERIM REPORT

Description of Condition

During comparisons of recent TVA runs of the TPIPE computer program used for calculating pipe system loads with past analysis problems which were reported on NCR 66D, it was observed that support design loads for several piping supports on one analysis problem in the chemical and volume control system (CVCS) were higher in the new runs. The new support loads should have been lower or equal to the old loads. Upon investigation of this discrepancy, it was found that PMB Systems Engineering, Incorporated (PMB), analyzed this problem using a test version of TPIPE. This resulted in nine incorrect support design loads and one incorrect anchor design load.

Corrective Action

The correct support design loads have been transmitted to Bergen-Paterson, the piping support vendor for their evaluation. The anchor design loads have been transmitted to Sequoyah/Watts Bar Design Projects, the anchor design organization for their evaluation. TVA has contacted PMB and requested that they investigate the possibility that this error may have affected other analyses.