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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 31, 1980

NOV 4 8:26

80-042-034 ✓  
80-039-034 ✓

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:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - MAIN STEAM LINE ANALYSIS TPIPE  
INPUT ERROR - NCR BLN CEB 8007 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
R. W. Wright on October 2, 1980, in accordance with 10 CFR 50.55(e).  
Enclosed is our first interim report. We expect to submit our next  
report by July 23, 1981.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*

L. M. Mills, Manager  
Nuclear Regulation and Safety

*dup*  
*8011070389*  
Enclosure

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

*1/19/81 - Telcon with D. Tenniol  
problem was with the input data  
itself, not the program. the  
model did not conform to  
commitments in the PSAB.*

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
MAIN STEAM LINE ANALYSIS TPIPE INPUT ERROR  
NCR BLN CEB 8007  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

The calculated effects of a steam hammer occurrence in the Bellefonte Nuclear Plant main steam lines have been questioned because of a possible input error in the TPIPE computer program used in the analysis. These uncertainties are in the areas of proper application, placement, and timing of forcing functions.

Interim Progress

TVA is reevaluating the steam hammer analysis.

DATE: 10/03/80 REGION: 10 October 3, 1980

FACILITY	NOTIFICATION	ITEM OR EVENT	REGIONAL ACTION
Bellefonte 1 & 2	Telecon	<u>CDR - T-Pipe Input Error</u>	Followup per MC
DNS: 50-438	10/02	During the steam hammer analysis of the Bellefonte main steam line; individual forcing functions were used as supplied. Several forcing functions with different arrival times were applied at individual node names. This procedure is incorrect though the application of multiple forcing functions at a single node name is permissible provided all have the same arrival times. Several civil engineering branch analyses are affected. A written report is due 11/3/80.	2512.
50-439			

**NCR # BLN CEB 8007**