

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1630 Chestnut Street Tower II

July 10, 1985

BLRD-50-438/84-39

BLRD-50-439/84-36

U.S. Nuclear Regulatory Commission  
Region II

Attn: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2 - OMISSION OF WATER WEIGHT IN  
VALVES IN PIPING ANALYSIS BY TELEDYNE - BLRD-50-438/84-39,  
BLRD-50-439/84-36 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
P. E. Fredrickson on June 7, 1984 in accordance with 10 CFR 50.55(e)  
as NCR BLN CEB 8408. This was followed by our first interim report dated  
July 6, 1984. Enclosed is our second interim report. We expect to submit our  
next report on or about September 13, 1985.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*J. W. Hufham*

J. W. Hufham, Manager  
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
OMISSION OF WATER WEIGHT IN VALVES IN PIPING ANALYSIS BY TELEDYNE  
BLRD-50-438/84-39, BLRD-50-439/84-36  
NCR BLN CEB 8408  
10 CFR 50.55(e)  
SECOND INTERIM REPORT

Description of Deficiency

In performing rigorous piping analysis on some valves in the component cooling system, Teledyne Engineering Company, Waltham, Massachusetts, did not consider water weight inside the valves. This means that the results of the analysis are potentially unconservative for support loads, nozzles, and stress values.

One common table of valve/flange data (which did not account for the weight of the water inside the valve) was prepared to be used in a number of component cooling system problems. All of the affected piping analysis problems are listed below:

N4-1KC-P	N4-2KC-P	N4-2KC-G	N4-0KC-K	N4-2KC-H	N4-2KC-N
N4-1KC-M	N4-2KC-M	N4-1KC-G	N4-1KC-H	N4-1KC-N	

Interim Progress

As indicated in our first report on this nonconformance, TVA is reviewing the affected piping analyses to determine the need for reanalysis. The findings to date indicate that the current analysis and related designs are adequate. We will provide further information in our next report to be submitted on or about September 13, 1985.