

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

July 6, 1984 10

BLRD-50-438/84-39

BLRD-50-439/84-36

U.S. Nuclear Regulatory Commission
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

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 - FIRST 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. Enclosed is our first interim report. We expect to
submit our next report on or about February 8, 1985.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, 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 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
NCR BLN CEB 8408
10 CFR 50.55(e)
FIRST 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, nozzle loads, 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. Affected piping analysis problems identified to date are listed below:

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

Interim Progress

All component cooling system rigorous analysis problems, plus other system problems analyzed by Teledyne, are being investigated to determine the need for reanalysis.