

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 22, 1983

BLRD-50-438/82-72
BLRD-50-439/82-66

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - ROUTING OF MAKEUP TANK OUTLET
LINES - BLRD-50-438/82-72, BLRD-50-439/82-66 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
C. W. Hehl on October 15, 1982 in accordance with 10 CFR 50.55(e) as NCR
BLN BLP 8228. This was followed by our first interim report dated
November 12, 1982. Enclosed is our second interim report. We expect to
submit our next report by December 23, 1983.

If you have any questions concerning this matter, 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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
ROUTING OF MAKEUP TANK OUTLET LINES
NCR BLN BLP 8228
BLRD-50-438/82-72, BLRD-50-439/82-66
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

The present routing of the Makeup and Purification System makeup tank outlet line to the train A makeup pumps will let dissolved gases (mainly hydrogen) come out of solution because of the pressure drop in the line and collect at the high point of the piping. The gas buildup will result in reduced net positive suction head available to the pumps and result in pump damage. The train A pumps are the only pumps affected by this condition.

Interim Progress

TVA has chosen to reroute the makeup tank outlet line to an elevation below the makeup tank water level to prevent the dissolved gases (mainly hydrogen) from coming out of solution. Analysis of both the revised piping arrangement and the rerouting of electrical cables to a relocated motor operated valve remain to be completed.