

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

November 12, 1982

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, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

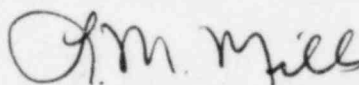
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - ROUTING OF MAKEUP TANK OUTLET
LINES - BLRD-50-438/82-72, BLRD-50-439/82-66 - FIRST INTERIM REPORT

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. Enclosed is our first interim report. We expect to submit
our next report by March 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, 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)
FIRST 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

Calculations have been made to determine the volume of gas that will evolve under the plant operating conditions in question. TVA is in the process of investigating the cause of the subject deficiency and evaluating various methods of venting the pump suction lines.