

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

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January 25, 1985

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 30323

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 - FOURTH 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 interim reports dated
November 12, 1982 and March 22 and December 12, 1983. Enclosed is our
fourth interim report. We expect to submit our next report by on or about
January 17, 1986.

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

J. A. Dornier
for J. W. Hufham, Manager
Licensing and Regulations

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 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)
FOURTH 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 completed the redesign and has issued the necessary drawings for rerouting the 4-inch makeup tank discharge piping to an elevation below the makeup tank water level. An associated 1-inch vent line has also been rerouted. The analysis of the revised piping design has been completed and affected piping supports for unit 1 have been redesigned. The redesign of affected unit 2 supports is in progress. TVA has also completed the necessary redesign of electrical cable routing due to the relocation of motor-operated valves IFCV-452-A and VHAB-161.