

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

July 18, 1984

BLRD-50-438/82-25

BLRD-50-439/82-22

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:

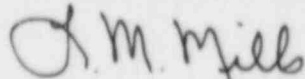
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - INCORRECT INSTALLATION OF PRESSURE
RELIEF AND SAFETY VALVES - BLRD-50-438/82-25, BLRD-50-439/82-22 - FIFTH
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Don Quick on March 5, 1982 in accordance with 10 CFR 50.55(e) as
NCR BLN BLP 8210. This was followed by our interim reports dated April 2
and July 13, 1982 and January 7 and June 17, 1983. Enclosed is our fifth
interim report. We expect to submit our next report by January 14, 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



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 PLANT UNITS 1 AND 2
INCORRECT INSTALLATION OF PRESSURE RELIEF AND SAFETY VALVES
NCR BLN BLP 8210
BLRD-50-438/82-25, BLRD-50-439/82-22
10 CFR 50.55(e)
FIFTH INTERIM REPORT

Description of Deficiency

Condition I - The two relief valves on the component cooling water supply lines to the shell side of the letdown coolers discharge into a common waste disposal drain header. The waste disposal header is not sized to accommodate both relief valves. Also, there are several other smaller relief valves discharging into this same waste disposal header. This condition applies to units 1 and 2.

Condition II - Two relief valves on the component cooling water piping for the coolers to reactor coolant pump P1A1 discharge into a common line which is sized too small to accommodate both relief valves. This condition applies to unit 1 only.

These conditions violate ASME Code Section III, Division I, ND-3677.3d(2).

Interim Progress

Condition I

TVA has proceeded with the solution of exhausting the two 6-inch relief valves to containment atmosphere and adding two 3-inch relief valves set at a lower pressure which exhausts into the waste disposal header.

The design criteria diagram and the physical drawings have been issued for both units. The relief valves have been procured. The issuance of the unit 1 support analysis has been delayed due to the disposition of Nonconformance Report (NCR) BLN CEB 8307 (BLRD-50-438/83-57, BLRD-50-439/83-50) and TVA's schedule reevaluation. NCR BLN CEB 8307 required the development of a new mode analysis before the support analysis could be completed. Since the hanger designs will be delayed, the unit 2 support analysis and the hanger designs will also be delayed.

Condition II

The size of the common drain line from the two relief valves has been increased to accommodate the flow from both relief valves. The physical drawings and the design criteria diagram have been issued. This deficiency only affected unit 1. The issuance of the support analysis and the hanger designs have been delayed. This delay is due to the disposition of NCR BLN CEB 8307 and the delay of the analysis involving the piping for condition I. The analysis of the piping involving condition I must be completed before the analysis of the piping involving condition II can be started.