

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

December 22, 1981

BLRD-50-438/81-13

BLRD-50-439/81-13

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

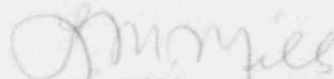
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - UNACCEPTABLE PIPE BREAK
INTERACTIONS - BLRD-50-438/81-13, BLRD-50-439/81-13 - THIRD INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. W. Wright on January 27, 1981 in accordance with 10 CFR 50.55(e) as
NCR BLN BLP 8003. This was followed by our interim reports dated February 24
and April 27, 1981. Enclosed is our third interim report. We expect to
submit our next report by May 26, 1982.

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 Regulation and Safety

Enclosure

cc: Mr. Richard C. DeYoung (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555



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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
UNACCEPTABLE PIPE BREAK INTERACTIONS
BLRD-50-438/81-13, BLRD-50-439/81-13
10 CFR 50.55(e)
THIRD INTERIM REPORT

Description of Deficiency

Unacceptable pipe break interactions were discovered in the Auxiliary Building Electrical Equipment Trained Area (elevations 649 and 669) during postulation of pipe break interactions. An inspection at the site confirmed the discovery of the design evaluation. Chilled water, demineralized water, and fire protection piping was not routed in accordance with Design Criteria for Auxiliary Building ESF Zone Environmental Control System, N4-VW-D740, which requires piping to be routed to prevent damage to electrical equipment unless spray shields are provided. This error is attributed to an incorrect assumption that the electrical equipment cabinets are qualified to withstand a water spray environment (NEMA 4 rating). These equipment cabinets have a NEMA rating of 1 which will allow water to enter and possibly damage the electrical equipment.

Interim Progress

TVA is continuing to investigate the subject nonconformance to determine what corrective steps are necessary.