

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

34 OCT 11
October 9, 1984
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BLRD-50-438/84-49
BLRD-50-439/84-45

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:

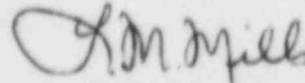
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - DCT BOLT STRESS ALLOWABLES USED
IN FLANGE QUALIFICATION - BLRD-50-438/84-49 AND BLRD-50-439/84-45 - FIRST
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on September 7, 1984 in accordance with 10 CFR 50.55(e) as
NCR BLN CEB 8414. Enclosed is our first interim report. We expect to
submit our next report on or about July 31, 1985.

If you have any questions, 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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PDR ADOCK 05600438
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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
INCORRECT BOLT STRESS ALLOWABLES USED IN FLANGE QUALIFICATION
BLRD-50-438/84-49, BLRD-50-439/84-45
10 CFR 50.55(e)
NCR BLN CEB 8414
FIRST INTERIM REPORT

Description of Deficiency

Piping flanges analyzed in problem N4-IKE-0 were qualified using incorrect bolt allowables. The differences between the stress values used and the correct allowables are significant and range as high as 10,000 lb/in². The analysis was based on preliminary information which was not verified by subsequent controlling documentation. Although this problem presently concerns the Essential Raw Cooling Water system, its applicability to other Bellefonte piping analysis problems is not yet known.

Interim Progress

TVA is currently investigating bolt related documentation in addition to verification of flange bolt data. The possibilities for corrective action include reanalysis of the problem(s) affected or installation of high-strength bolts.

TVA will provide additional details in our next report.