

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

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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 - D CT 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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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/in<sup>2</sup>. 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.