

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 25, 1983

BLRD-50-438/81-64
BLRD-50-439/81-62

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - BOLTS AND NUTS FAIL TO MEET ASTM SPECIFICATIONS - BLRD-50-438/81-64, BLRD-50-439/81-62 - SEVENTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on September 24, 1981 in accordance with 10 CFR 50.55(e) as NCR's 1597 and 1598. This was followed by our interim reports dated October 22 and December 8, 1981 and February 19, June 29, and September 27, 1982 and January 7, 1983. Enclosed is our seventh interim report. We expect to submit our next report by July 7, 1983. We consider 10 CFR Part 21 applicable to this deficiency.

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

DS Kammer

for 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
BOLTS AND NUTS FAIL TO MEET ASTM SPECIFICATIONS
NCR'S 1597 AND 1598
BLRD-50-438/81-64, BLRD-50-439/81-62
10 CFR 50.55(e)
SEVENTH INTERIM REPORT

Description of Deficiency

10,000, 3/4" stainless steel nuts (furnished by Chattanooga Bolt and Screw, Chattanooga, Tennessee) and 10,600, 3/4" x 3-1/2" stainless steel bolts (furnished by Challenge Enterprises, Chattanooga, Tennessee) were received not marked in accordance with ASTM specifications. Subsequent testing of the subject material by Singleton Materials Engineering Laboratory revealed the material failed to meet ASTM specifications. The associated documentation received with the material erroneously indicated that the nuts and bolts do meet ASTM specifications. Approximately 450 of these bolts and 1300 nuts have been issued to the field for installation. Nonconformance report (NCR) 1597 pertains to the bolts and NCR 1598 pertains to the nuts.

Interim Progress

TVA's Division of Engineering Design (EN DES) has been requested by memorandum (BLN 821202 066) to perform an engineering evaluation of the Singleton Laboratory analysis of the bolting material. Results of this analysis will be evaluated to determine the need for revision to the original disposition of NCR 1597. Additional testing of bolting material has been requested by EN DES and evaluation of the material is still pending.

Additional testing of material for nuts proved that all material was acceptable under ASTM standards. As a result of this testing, NCR 1598 is in the process of being closed.

More information on the bolting material will be provided in our next report.