

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

February 19, 1982

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, Suite 3100
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 - THIRD 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. Enclosed is our third interim report. We expect to submit our next report by June 29, 1982. 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

L. M. Mills
for L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Richard C. DeYoung, Director (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
BOLTS AND NUTS FAIL TO MEET ASTM SPECIFICATIONS
BLRD-50-438/81-64, BLRD-50-439/81-62
10 CFR 50.55(e)
THIRD 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 shows 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

Construction Mechanical Engineering Unit (MEU) QC has performed inspection in the areas designated as areas of usage for the described hardware and the results are as follows:

1. 22 bolts issued to steamfitters are believed to have been used in unit 1 spent fuel pool temporary flush piping, and cannot be located.
2. 120 bolts issued to electricians for lighting standards cannot be accounted for by the electricians.
3. 16 bolts are believed to have been used on the traveling water screens at the Intake Pumping Station but were not located.
4. 16 bolts issued to steamfitters for the Decay Heat Removal System cannot be accounted for.
5. 100 bolts issued to millwrights are believed to have been used in Heat Rejection System motor bases and are possibly embedded in concrete.
6. 25 bolts and nuts are installed in waste tank and waste holding tank agitators. These have been located and are being removed.
7. 20 nuts were used for an alignment/fitup jig which is to be scrapped.
8. 22 bolts and nuts were returned to MEU by the Instrumentation Engineering Unit.

All items returned to MEU will be sent to the warehouse for disposition. TVA is continuing the search for unaccounted for nuts and bolts.