

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 9, 1985

BLRD-50-438/85-07

BLRD-50-439/85-07

U.S. Nuclear Regulatory Commission
Region II

Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - INADEQUATE GROUTED ANCHOR INSPECTION
RECORDS - BLRD-50-438/85-07, BLRD-50-439/85-07 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Al Ignatonis on January 18, 1985 in accordance with 10 CFR 50.55(e) as NCR
3714. Our interim reports were submitted on February 19 and June 11, 1985.
Enclosed is our final report.

If you have any questions, please get in touch with R. H. Shell at
FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. W. Hufham
by *rlh*

J. W. Hufham, Manager
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, 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 GROUTED ANCHOR INSPECTION RECORDS ARE INADEQUATE BLRD-50-438/85-07 AND BLRD-50-439/85-07

NCR 3714
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

During a review of all grout cards issued to install grouted anchors at Bellefonte Nuclear Plant (BLN), it was discovered that numerous anchors were not inspected to the requirements of BLN site quality control procedure (QCP) 2.8, "Bolt Anchors Set in Hardened Concrete." However, it is evident that some of these anchors had received inspection in accordance with the specifications denoted on construction documents such as work releases or drawings.

The apparent cause of this deficiency was a lack of understanding of QCP 2.8 by the applicable engineering units.

Safety Implications

Failure to inspect grouted anchors in accordance with the pertinent criteria could result in the acceptance of grouted anchors that do not meet design standards. Substandard anchors could fail under design conditions and adversely affect the performance of a safety-related system, and thus the operation of the plant.

Corrective Action

TVA's Office of Engineering (OE) has evaluated all of the grouted anchor installations identified by the Office of Construction (OC) personnel and dispositioned the deficient installations. The applicable engineering units are in the process of evaluating all the grout records for adequacy based on OE's disposition. At the present time, no grout records have been rejected. If any grout records are found to be unacceptable, the corresponding installation will be reinspected.

To prevent recurrence of this deficiency, the responsible unit personnel will be retrained to the applicable requirements of BLN QCP 2.8, "Bolt Anchors Set in Hardened Concrete." This will be documented in accordance with BLN QCP 10.29, "Quality Assurance Training Program," and BLN QCP 10.50, "QA Training Program for Engineering Personnel." In addition, the procedure has been revised to clarify responsibilities and criteria concerning grouted anchor installation.

All actions were completed September 5, 1985.