

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1630 Chestnut Street Tower II

P 2:46
November 30, 1984

BLRD-50-438/82-66

BLRD-50-439/82-59

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:

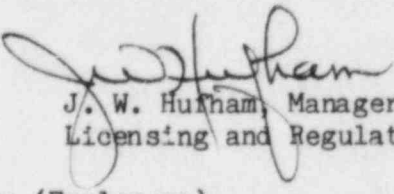
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - DEFICIENT WELDS ON CABLE TRAY
SUPPORTS - BLRD-50-438/82-66, BLRD-50-439/82-59 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on September 8, 1982 in accordance with 10 CFR 50.55(e) as NCR 1894. This was followed by our interim report dated October 8, 1982 and our final report dated January 21, 1983. Related NCR 3013 was later documented and resulted in the reopening of this condition. Our third interim report was submitted on June 4, 1984. Enclosed is our final report on this condition.

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


J. W. Hufham, Manager
Licensing and Regulations

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
DEFICIENT WELDS ON CABLE TRAY SUPPORTS
NCRs 1894 AND 3013
BLRD-50-438/82-66, BLRD-50-439/82-59
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Nonconformance report (NCR) 1894 documented a condition whereby groove welds specified on TVA drawings (4DW0760-X2 series) were made as fillet welds. The subject welds are cable tray support welds on trays in the Diesel Generator Building. The failure of craft personnel to pay close attention to the drawing details is the root cause.

As part of the corrective action on NCR 1894, an inspection of 410 potentially deficient welds was performed to determine the extent of the deficiency. Seventy-four of the welds were identified as inaccessible during the inspection. The inaccessible welds were inadvertently omitted from the list of unacceptable or indeterminate welds which required a design disposition. This condition was cited in violation 50-438/84-05-01 and has been identified by TVA as NCR 3013.

Safety Implications

The trays involved contain safety-related cables. Should the welds fail, there is a possibility that the safety-related cables could be damaged, thus resulting in a condition that could adversely affect the safe operation of the plant.

Corrective Action

All of the affected cable tray support welds identified on NCR 3013 have been reviewed. Approximately 44 welds out of the total identified on the subject NCR will require rework. The welds are being reworked according to the details and note 2 on TVA drawing 4DW0760-X2-6. The rework will utilize fillet welds and the fillet weld size shown on the drawing is the minimum acceptable size. Where existing fillet welds exceed the specified dimension, they may be "used as is." All supports requiring rework as a result of NCR 3013 will be completed by March 23, 1985. To prevent recurrence of this condition adverse to quality, all personnel in the Welding Engineering Unit (WEU) associated with the evaluation or input of data on deficient welds have been trained to ensure that corrective actions are adequately scoped.