

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

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June 4, 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 - THIRD INTERIM 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 has resulted in the reopening of this condition. Our next
report will be submitted by November 30, 1984.

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

D Skammer

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
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)
THIRD INTERIM 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.

Interim Progress

The cable tray supports are being reworked as necessary. Bellefonte Construction has identified to the Division of Engineering Design (EN DES) the sizes of the fillet welds used on the supports. EN DES has evaluated the weld sizes for adequacy and has determined which welds require rework (except for the 74 inaccessible welds described above). Drawings 4DW0760-X2-4 R7, 4DW0760-X2-6 R11, 4DW0760-X2-8 R6 have been revised by TVA, and these drawings now include a new or alternate weld symbol to indicate the supports needing rework. The rework will utilize fillet welds and the fillet weld size shown on the drawings is the minimum acceptable size. Where existing fillet welds exceed the specified dimension, they may be used as is. TVA Process Specification O.C.1.1 has been revised to include a surveillance program which is to check welding activities in process and includes a preweld inspection made by the welder and his foreman of the weld-joint dimensions. All 74 inaccessible welds are currently being evaluated by EN DES to determine the extent of rework required.