

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

2 July 10, 1984

BLRD-50-438/84-40

U.S. Nuclear Regulatory Commission
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNIT 1 - DISCONTINUITIES ON SHEAR LUG TO PIPING
WELDS - BLRD-50-438/84-40 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on June 11, 1984 in accordance with 10 CFR 50.55(e) as
NCR 3180. Enclosed is our first interim report. We expect to submit our
next report on or about October 30, 1984.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills

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

8407260018 840710
PDR ADOCK 05000438
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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1
DISCONTINUITIES ON SHEAR LUG TO PIPING WELDS
BLRD-50-438/84-40
NCR 3180
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

This condition was previously identified at TVA's Watts Bar Nuclear Plant (WBN) for ASME classes 2 and 3 full-penetration lug welds as nonconformance report (NCR) 5559 (WBRD-50-390/84-17, WBRD-50-391/84-17). TVA subsequently issued Quality Bulletin 84-10 to notify other TVA nuclear plants of the condition. As a result of an investigation into this item at Bellefonte Nuclear Plant (BLN), the condition has been identified as applying to ASME class 1 lug welds at BLN.

The condition is one in which full-penetration welds attaching shear lugs to piping have discontinuities along the longitudinal axis of the lug where the lug intersects the surface of the pipe. The only full-penetration lug welds at BLN are on ASME class 1 piping. A total of 44 ASME class 1 lugs have been installed at BLN. A sample of 12 of these 44 lugs was ultrasonically examined and 3 exhibited the subject discontinuities. All of the 44 installed lugs are on the makeup and purification system.

The cause of this deficiency has been determined to be a failure by craft personnel to consistently follow the requirements of TVA General Construction Specification G-29M. G-29M drawing 1.M.1.2-12 requires that the lug attachment welds be back ground or gouged before welding the second side.

Interim Progress

TVA is investigating the consequences of using the welds "as is" and will disposition this item accordingly.