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 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

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SUBJECT: Second interim deficiency report re fillet weld misspecification, initially reported on 801107. Design review repeats discrepancies in each TVA facility. Util will evaluate facilities. Next report will be submitted by 810400.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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JAN 28 1981

400 Chestnut Street Tower II

January 19, 1981

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - FILLET WELD MISSPECIFICATION -  
NCR BLN BLP 8007 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on November 7, 1980, in accordance with 10 CFR 50.55(e). This was followed by our first interim report dated December 3, 1980. Enclosed is our second interim report. We expect to submit our next report by April 9, 1981. This deficiency has also been reported for every TVA nuclear plant.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., 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  
FILLET WELD MISSPECIFICATION  
NCR BLN BLP 8007  
10 CFR 50.55(e)  
SECOND INTERIM REPORT

Description of Deficiency

In a number of Bellefonte Nuclear Plant systems, fillet welds were specified, in lieu of beveled groove welds, to connect members whose angle of intersection is outside the limits for fillet weld application as stipulated in the American Institute of Steel Construction (AISC) Standards. The AISC Standard states that the welds which are made joining members at an angle of 60° or less are to be defined as acute angle welds. Acute angle welds should be specified as beveled groove welds according to AISC.

Interim Progress

A design review of the TVA nuclear facilities has revealed the above discrepancy exists in some form at every TVA plant. TVA will continue to evaluate each individual plant and will issue updated reports on each as necessary. A list of applicable NCR's follows:

BLNBLP8007  
HTAHPP8003  
HTBHPP8003  
PBNHPP8003  
SQNSWP8025  
WBNSWP8008  
(WBN) 2807R  
YCNYP8006

TVA is in the process of evaluating the AISC Standards and the affected welds in order to determine a satisfactory resolution.