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 RECIP. NAME                      RECIPIENT AFFILIATION  
 O'REILLY, J.P.                    Region 2, Atlanta, Office of the Director

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SUBJECT: Third interim deficiency rept re fillet weld misspec, initially reported 801107. Each individual plant, American Inst of Steel Const Stds & affected welds are being evaluated. Next rept expected by 810707.

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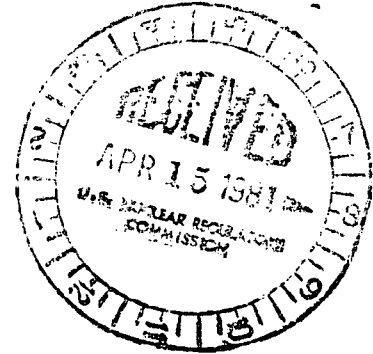


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400 Chestnut Street Tower II

April 9, 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 - THIRD 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 interim reports dated December 3, 1980 and January 19, 1981. Enclosed is our third interim report. We expect to submit our next report by July 7, 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)  
THIRD 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 is evaluating each individual plant and will issue reports on each. TVA is also in the process of evaluating the AISC Standards and the affected welds in order to determine a satisfactory resolution.