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

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SUBJECT: Forwards final deficiency rept, originally reported 801107, re undersized fillet welds on high pressure fire protection sys supports. Util revised & reissued all questionable drawings detailing correct weld size.

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

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

December 3, 1980

Mr. James R. 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 - UNDERSIZED FILLET WELDS ON HIGH PRESSURE FIRE PROTECTION SYSTEM SUPPORTS - NCR BLN BLP 8008 - FINAL 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). Enclosed is our final report.

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
UNDERSIZED FILLET WELDS ON HIGH PRESSURE FIRE PROTECTION SYSTEM SUPPORTS
NCR BLN BLP 8008
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

The weld of the pipe strap to support steel is undersized on High Pressure Fire Protection (HPFP) System supports (approximately 185) in the reactor building. A 3/16" fillet weld was detailed on design drawings; however, a 1/4" fillet weld is required to prevent overstressing the weld.

Safety Implications

Overstressing of welds in HPFP system supports could lead to failure of this system. Although no credit is taken for this system in a Design Basis Accident (DBA), its integrity is an important aspect of the plant's safety. Failures in this system caused by overstressed welds could possibly lead to degradation of safety systems caused by either water impingement or pipe whip.

Corrective Action

TVA has revised all design drawings in question. These new drawings have been reissued. The reissued drawings detail the correct weld size. The welds will be inspected and all undersized welds will be reworked by July 31, 1981.