TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

December 2, 1981

BLRD-50-439/81-64

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 UNIT 2 - LAP INDICATION ON NAVCO SPOOL PIECE - BLRD-50-439/81-64 - REVISED FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on October 8, 1981 in accordance with 10 CFR 50.55(e) as NCR 1592. This was followed by our final report dated November 3, 1981. As discussed with R. V. Crlenjak by telephone on November 23, 1981, enclosed is our revised final report. The reason for the revision is to clarify the corrective action of the original report as the pipe has not been replaced as indicated. We consider 10 CFR Part 21 applicable to this deficiency.

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

for 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 UNIT 2
LAP INDICATION ON NAVCO SPOOL PIECE
BLRD-50-439/81-64
10 CFR 50.55(e)
REVISED FINAL REPORT

Description of Deficiency

During weld preparation, TVA found an unacceptable lap-type indication in an ASME III Class 3 piping subassembly which was supplied to TVA by the National Valve and Manufacturing Company (NAVCO), Pittsburgh, Pennsylvania. The subassembly is a 6-inch, schedule 160, ASME SA 106 GR B pipe with mark number 2CA-28, which is part of the Auxiliary Feedwater (AFW) System. The lap indication depth was measured at 3/32", which exceeds the depth allowed by the material specification. The measured depth is below TVA-calculated minimum wall thickness of 0.6241" by 0.0039". The indication is therefore considered a "defect," as defined by the ASME Code.

Safety Implications

The subject spool piece is located on the discharge side of the motor-driven pump on the AFW System. Should the AFW System be activated and the turbine-driven pump not be operational, a failure of this spool piece could reduce the feedwater supply. This could result in an excessive thermal transient in the steam generator which may adversely impact the Reactor Cooling System.

Corrective Action

TVA will replace the defective portion of pipe with new pipe by December 31, 1981. Lap type indications are characteristic of seamless carbon-steel pipe. TVA has identified only two indications (one significant, one nonsignificant) of this type out of approximately 10,000 spool pieces supplied to Bellefonte by NAVCO of which approximately 60 percent have been installed. Visual examinations performed by TVA welding inspectors, before welding, would reveal the existence of similar deficiencies.

NAVCO has been notified of this deficiency and TVA concurs with the assessment that this does not indicate a generic breakdown of NAVCO's QA program. Consequently, there are no actions to prevent recurrence.