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

SUBJECT: Second interim deficiency rept re const QA audit of safety-related non-ASME weld insp, initially reported 801020. Welding design guide will be developed & issued. Next rept expected by 810505.

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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

March 6, 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 - CONSTRUCTION QA AUDIT DEFICIENCY
SAFETY-RELATED NON-ASME WELD INSPECTION BN-W-80-08 - SECOND INTERIM
REPORT

On September 4, 1980, R. W. Wright, NRC-OIE Region II, was informed that the subject nonconformance was determined to be reportable in accordance with 10 CFR 50.55(e). This was followed by our first interim report dated October 20, 1980. Enclosed is our second interim report. We expect to submit our next report by May 5, 1981.

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
CONSTRUCTION AUDIT DEFICIENCY SAFETY-RELATED NON-ASME WELD INSPECTION
CONSTRUCTION QA AUDIT DEFICIENCY BN-W-80-08
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Contrary to the FSAR Section 17.1A.9 requirements, TVA's Office of Engineering Design and Construction (OEDC) QA Program for Control of Special Processes does not contain written measures to ensure that safety-related welding receives all inspections/verifications required by Codes, standards, and 10CFR50 Appendix B commitments. As a result, certain categories of safety-related welding, have/are not receiving the inspections required by ANSI N45.2.5-1974 to verify quality. The required inspections not being performed include:

- Verification of welding procedure and compliance thereto
- Verification of welder qualification
- Verification of joint fitup
- Verification of correct filler metal usage

Although this deficiency was originally written on Bellefonte Nuclear Plant, it has been determined to be generic to all TVA nuclear plants under construction.

Interim Progress

TVA is in the process of review and evaluation of the following:

1. The commitment to the ANSI N45.2 series of standards in the Bellefonte Nuclear Plant (BLN) safety analysis reports (SAR's)
2. The Quality Assurance (QA) program requirements of 10CFR50 Appendix B and NRC Green Book (Guidance on Quality Assurance Requirements During the Construction Phase of Nuclear Power Plants), May 10, 1974
3. Compliance with ANSI D1.1, Sections 5 and 6
4. TVA's Program Requirements Manual (PRM)
5. TVA's General Construction Specification G29C - Process Specifications for Welding, Heat Treatment, Nondestructive Examination, and Allied Field Fabrication Operations
6. QA program responsibilities and guidelines within OEDC
7. BLN construction quality assurance manual, quality control procedures
8. Audit report BN-W-80-08 - The circumstances discussed in the report and further investigation, evaluation, and discussion under the auspices of a "significant" condition

In addition, TVA is in the process of developing and issuing a welding design guide which would address all requirements of American Welding Society and other approved and related codes and standards for TVA designers. Also, on a generic basis, further review and evaluation is being conducted. The results, with possible write up of nonconformance reports, will be furnished as completed for each specific plant.