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

SUBJECT: Second interim deficiency rept, originally reported on 800911, re incorrectly marked certified matl test rept for prestressing sys matl. Addl fabrication records & details of planned corrective action requested.

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

NOTES:

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STANDRDS DEV 21	1	1				
EXTERNAL:	ACRS 16	16	16	LPDR 03	1	1
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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 10, 1981

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U.S. NRC REGION II
ATLANTA, GEORGIA

FEB 12 4:59

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 - CERTIFIED MATERIALS TEST REPORT
FOR PRESTRESSING SYSTEM MATERIALS - NCR BLN CEB 8005 AND INRYCO NCR-7 -
SECOND INTERIM REPORT

Nonconformance report BLN CEB 8005 was initially reported to NRC-OIE Inspector R. W. Wright on September 11, 1980, in accordance with 10 CFR 50.55(e). This was followed by our first interim report dated October 9, 1980. Since that time, INRYCO NCR-7 has been determined to be reportable in accordance with 10 CFR Part 21. Enclosed is our second interim report. We expect to submit our next report by April 7, 1981. We consider 10 CFR Part 21 to be applicable to this nonconformance.

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

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
CERTIFIED MATERIALS TEST REPORT FOR PRESTRESSING SYSTEM MATERIALS
NCR BLN CEB 8005 AND INRYCO NCR-7
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Heat traceability for anchorhead material used in the prestressing system for the primary containment is questionable. ACI-359, April 1973 trial use version, subsection CC-2470, requires the prestressing system materials be marked or tagged in such a manner as to ensure traceability to the Certified Materials Test Report during production and while in transit and storage. As a result of chemical tests made on three anchorheads of heat code LP material, INRYCO has determined that a possibility exists that there may be two separate material heats in LP, both of which have been coded LP. Chemical analysis of two of the three anchorheads are not consistent with the mill test report. The elements that are not within product analysis check tolerances are sulfur, phosphorus, and copper.

Additional chemical testing of six anchorheads has been performed by INRYCO. The testing confirmed that some anchorhead material was incorrectly marked as heat code LP material.

Interim Progress

INRYCO has submitted a report which, from a review of fabrication records, concludes 11 anchorheads of heat code material MB were incorrectly marked as heat code LP material. The review of fabrication records also revealed seven anchorheads of LP material were incorrectly marked as heat code NC.

The mill test report for heat code MB material shows the phosphorus and sulfur content are consistent with the contents of the original two anchorheads, which were suspected as not being LP material. The copper content of heat code MB has also been verbally reported to be consistent with the content of the original two suspect anchorheads, but it has not been confirmed in writing by the producing mill.

TVA has reviewed INRYCO's report and requested additional fabrication records to further document the identity of the 18 anchorheads in the INRYCO report. TVA has requested that INRYCO finalize the details regarding their plan of corrective action to prevent recurrence.