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 AUTH. NAME: AUTHOR AFFILIATION
 MILLS, L.M. Tennessee Valley Authority
 RECIPIENT AFFILIATION
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director *matl*

SUBJECT: Interim deficiency rept re questionable heat traceability for anchorhead matl used in prestressing sys for primary containment. Rock anchor tendon anchorheads are involved. Addl chemical testing of anchorheads will be done.

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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

October 9, 1980

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

50-438
50-439

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - CERTIFIED MATERIALS TEST REPORT
FOR PRESTRESSING SYSTEM MATERIALS - NCR BLN CEB 8005 - FIRST INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. W. Wright on September 11, 1980, in accordance with 10 CFR 50.55(e).
Enclosed is our first interim report. We expect to submit our next report
by February 10, 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
CERTIFIED MATERIALS TEST REPORT FOR PRESTRESSING SYSTEM MATERIALS
NCR BLN CEB 8005
10 CFR 50.55(e)
FIRST 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, phosphor, and copper.

Interim Progress

It is known that the rock anchor tendon anchorheads for units 1 and 2 are involved. INRYCO will perform additional chemical testing of six anchorheads from the LP heat. The testing will provide more information on the variance of chemical analysis for anchorheads from the same bar and for anchorheads from different bars.