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

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SUBJECT: Final deficiency rept re mislocation of flow characteristic indicators, initially reported on 810109. Engineering change notice has been written to reflect proper positions of temp wells & flow elements. Drawings will be completed by 820101.

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

NOTES:

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	REG FILE 01	1 1	RUTHERFORD, W. IE	1 1
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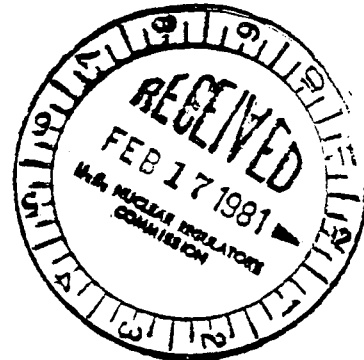
TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 9, 1981

BLRD-50-438/81-10
BLRD-50-439/81-10



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 - MISLOCATION OF FLOW CHARACTERISTIC INDICATORS - BLRD-50-438/81-10, BLRD-50-439/81-10 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on January 9, 1981, in accordance with 10 CFR 50.55(e) as NCR BLN BLP 8016. 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
MISLOCATION OF FLOW CHARACTERISTIC INDICATORS
BLRD-50-438/81-10, BLRD-50-439/81-10
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Temperature wells on the Component Cooling Water System (CCS) are used to determine the need to redirect CCS flow and bypass the CCS heat exchanger. The wells are incorrectly located in TVA piping drawings (which do not accurately reflect the design criteria diagram). These piping drawings place the temperature wells upstream of the component cooling water bypass rather than downstream. Specifically, the following temperature wells are incorrectly located:

1KC-ITW-006B-A	2KC-ITW-006B-A
1KC-ITW-007B-B	2KC-ITW-007B-B

In addition, two flow elements are incorrectly located. Flow element 1KC-IFE-007-B is incorrectly located upstream of the component cooling water cooler bypass discharge. Flow element 2KC-IFE-007-B is located too close to the component cooling water bypass discharge per manufacturer's specification.

Safety Implications

Upon detection of a certain temperature by a thermocouple in the temperature well, a signal is initiated and the component cooling water valve is actuated by the control room operator if needed. Had this deficiency remained uncorrected, the actual temperature of coolant passing into the CCS would not have been accurately reflected. This condition could have adversely affected the safe operation of the plant.

Corrective Action

An Engineering Change Notice (ECN 1200) has been written which will reflect the proper positions of the temperature wells and flow elements. The ECN will be included in revision of design drawings and the corrected design drawings will be reissued to the field for implementation. A memorandum will be released within TVA by March 31, 1981, which will alert TVA checkers to this type of oversight.

The above drawing revisions will be completed by TVA before January 1, 1982. The actual field implementation of these revisions will be completed by July 6, 1982.