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 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
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 RECIP. NAME: RECIPIENT AFFILIATION
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

SUBJECT: Second interim deficiency rept, originally reported 801203,
 re solid state control sys not providing automatic closure
 of borated water storage tank isolation valves. Caused by
 improper use of design review verification.

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

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UNITED STATES

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 18, 1981

BLRD-50-438/81-11
BLRD-50-439/81-11

~~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 - AUTOMATIC SWITCHOVER OF
BORATED WATER STORAGE TANK - BLRD-50-438/81-11, BLRD-50-439/81-11 -
SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. W. Wright on December 3, 1980, in accordance with 10 CFR Part
50.55(e) as NCR BLN BLP 8010. This was followed by our first
interim report dated January 2, 1981. Enclosed is our second
interim report. We expect to submit our next report by March 24,
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, 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
AUTOMATIC SWITCHOVER OF BORATED WATER STORAGE TANK
10 CFR 50.55(e)
BLRD-50-438/81-11, BLRD-50-439/81-11
SECOND INTERIM REPORT

Description of Deficiency

The Solid State Control System design does not provide automatic closure of the borated water storage tank (BWST) isolation valves. Automatic closure is required per TVA design criteria. The latest revision of the control logic drawing and the control logic implementation circuit interface diagram revisions do not reflect this requirement.

The apparent cause of the deficiency involved improper use of the design review method of verification procedure for control documents in the design process for control logic diagrams and their implementation drawings.

Interim Progress

The subject deficiency has been reviewed from a design criteria standpoint and there appears to be a deficiency in that context. However, the switchover of the decay heat removal pump suction from the BWST to the Reactor Building emergency sump is achieved when BWST level is low. This situation is verified by a detailed review of design drawings. TVA's initial report, submitted on the subject deficiency, was issued before this detailed review. Therefore, the subject deficiency, having been clarified, is in the process of being reevaluated.