

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

December 27, 1983 DEC 29 A 8:58

BLRD-50-438/83-45

BLRD-50-439/83-38

U.S. Nuclear Regulatory Commission  
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - DESIGN OF AUXILIARY FEEDWATER PUMP  
TRIP AND THROTTLE VALVE ELECTRICAL CIRCUITS - BLRD-50-438/83-45,  
BLRD-50-439/83-38 - SECOND INTERIM REPORT

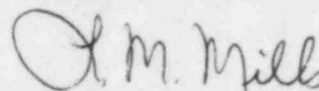
The subject deficiency was initially reported to NRC-OIE Inspector L. Watson on July 19, 1983 in accordance with 10 CFR 50.55(e) as NCR BLN EEB 8316. This was followed by our interim report dated August 18, 1983. Enclosed is our second interim report. We expect to submit our next report by April 2, 1984.

In our first interim report, we inadvertently stated that 10 CFR Part 21 was applicable to this deficiency. Please note that it does not apply to this deficiency.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager  
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
DESIGN OF AUXILIARY FEEDWATER PUMP TRIP AND  
THROTTLE VALVE ELECTRICAL CIRCUITS  
10 CFR 50.55(e)  
BLRD-50-438/83-45, BLRD-50-439/83-38  
NCR BLN EEB 8316  
SECOND INTERIM REPORT

Description of Deficiency

The electrical circuitry for the Auxiliary Feedwater Pump Turbine controls receives power through a manual transfer switch (1/2CA-43-003-S) from channel G (normal) and channel F (alternate) of the 125V DC Class 1E power system (EU) and the 120V Class 1E AC Vital Power Distribution System (EJ). The transfer switch is designated and labeled S (special) for separation purposes; however, the cables, conduit, and equipment are designated and labeled G (channel G). The design criteria "Physical Independence of Electrical Systems," NM4-50-D786, stipulates that circuits which can receive power from two divisions shall be identified as S and separated from all other wiring. Therefore, this circuit violates the requirements of the design criteria.

Interim Progress

The identified components that receive normal and alternate power from channels G and F, respectively, will be identified as "S." The design revisions are being implemented by engineering change notices 2372 and 2833.