

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

April 23, 1982

BLRD-50-438/81-41

BLRD-50-439/81-43

U.S. Nuclear Regulatory Commission  
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - BOP ISOLATOR CABINET -  
BLRD-50-438/81-41, BLRD-50-439/81-43 - REVISED FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on May 27, 1981 in accordance with 10 CFR 50.55(e) as NCR 1472. This was followed by our first interim report dated June 26, 1981, our revised first interim report dated July 10, 1981, our second interim report dated September 25, 1981, and our final report dated January 26, 1982. As discussed with NRC-OIE Inspector R. V. Crlenjak by telephone on April 12, enclosed is our revised final report. We consider 10 CFR Part 21 applicable to this deficiency.

The reason for the revision is to change the expected completion date of the corrective action. The date of April 15, 1982 for completion of corrective actions indicated in our final report on this matter was not met because the original disposition documentation was insufficient in that it did not account for differences in isolator cabinet design. The Bellefonte site is currently awaiting receipt of the appropriate documentation. The corrective action on this matter will be completed by July 17, 1982.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*

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, DC 20555

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## ENCLOSURE

### BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 BOP ISOLATOR CABINET

NCR 1472

BLRD-50-438/81-41, BLRD-50-439/81-43

10 CFR 50.55(e)

### REVISED FINAL REPORT

#### Description of Deficiency

During receiving inspection of balance-of-plant (BOP) isolator cabinet 2IX-ISOL-262-G at Bellefonte, TVA employees found that a conductor was pulled out of terminal lug TBA-5A-5. The conductor is on the Class IE side (input) of the cabinet. The BOP isolator cabinets are used to effectively isolate electrical Class IE from non-Class IE instrumentation. This was a one-time occurrence and has not happened on any other isolator cabinet. This condition was apparently caused by interference of the door-locking mechanism with the internal wiring. This defect may be generic to the other isolator cabinets at Bellefonte provided by E. Max, Incorporated.

#### Safety Implications

The interaction of the door locking mechanism and isolator wiring represented a deficiency which could have resulted in damage to the isolator sufficient to prevent its proper performance. Had this condition remained uncorrected, the safe operation of the plant could have been affected in that the feedback from non-Class IE instrumentation could have interfered with the operation of Class IE instrumentation.

#### Corrective Action

TVA will rework the damaged termination to assure proper continuity of the circuit. To prevent recurrence, the terminal blocks located nearest the door-locking mechanism will be moved toward the rear of the cabinet such that a minimum of 1/2-inch clearance is provided between the internal wiring harness connected to the terminal blocks and the inside front edge of the cabinet. This corrective action will be taken on all E. Max, Incorporated cabinets and is expected to be completed by July 17, 1982. No other cabinets provided by E. Max are used at other TVA plants.