

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 3, 1985

BLRD-50-438/85-23  
BLRD-50-439/85-21

U.S. Nuclear Regulatory Commission  
Region II  
Attn: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Dear Dr. Grace:

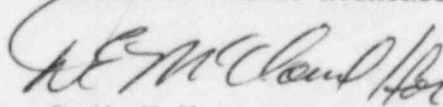
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - SOLID STATE CONTROL SYSTEM CABINET  
WIRING WAS DAMAGED DUE TO TARGET ROCK SOLENOID WIRING AND DRAWING ERROR.  
- BLRD-50-438/85-23, BLRD-50-439/85-21 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
Al Ignatonis on August 1, 1985 in accordance with 10 CFR 50.55(e) as NCR  
4430. Enclosed is our first interim report. We expect to submit our next  
report on or about May 9, 1986. We consider 10 CFR Part 21 applicable 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



J. W. Hufham, Manager  
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, 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  
SOLID-STATE CONTROL SYSTEM CABINET WIRING WAS DAMAGED  
DUE TO TARGET ROCK SOLENOID WIRING AND DRAWING ERRORS  
BLRD-50-438/85-23, BLRD-50-439/85-21  
NCR BLN 4430  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

Internal wiring in solid-state control system (SSCS) cabinet 1IX-IR-017A was damaged when a 120V ac potential was applied to at least two different field input points of the cabinet. The SSCS was designed for a 48V dc input. The inputs involved were from Target Rock (East Farmington, New York) solenoid valves which are controlled by the SSCS. An internal jumper in the Target Rock valves supplied one side of the 120V ac signal (used to energize the solenoid) to the valve position limit switch terminals. On some valves, the 120V ac signal is used to energize local indicating lamps which require the use of an internal jumper; but when the position switches are connected as SSCS inputs, the internal jumper must be omitted.

The root causes of this deficiency were (1) Target Rock supplied a solenoid valve with an internal jumper which was not depicted on their drawings, and (2) TVA failed to specify the removal of some of the internal jumpers that were shown on Target Rock's valve drawings.

Interim Progress

TVA is in the process of evaluating this deficiency in order to determine corrective action and action required to prevent recurrence.

Additional information will be provided to the NRC on or about May 9, 1986.