

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

32 JUN 30 1982 : June 28, 1982

BLRD-50-439/82-36

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:

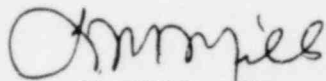
BELLEFONTE NUCLEAR PLANT UNIT 2 - FAULTY RELAYS IN AUXILIARY POWER  
DISTRIBUTION SYSTEM BY BROWN BOVERI ELECTRIC - BLRD-50-439/82-36 -  
FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
D. Quick on May 28, 1982 in accordance with 10 CFR 50.55(e) as NCR 1822.  
Enclosed is our first interim report. We expect to submit our next report  
by December 10, 1982. We consider 10 CFR Part 21 applicable to this  
deficiency.

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, 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 UNIT 2  
FAULTY RELAYS IN AUXILIARY POWER DISTRIBUTION SYSTEM BY BROWN BOVERI ELECTRIC  
NCR 1822  
BLRD-50-439/82-36  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

Two I-T-E (I-T-E Imperial Corporation) type 27 undervoltage relays and two I-T-E type 59 overvoltage relays (located in Class 1E, unit 2 6.9-kV switchgear furnished by Brown Boveri Electric, Chalfont, Pennsylvania, on contract 75K5-85583) failed to function during construction testing.

Safety Implications

The failure of the undervoltage relays could disconnect the affected switchgear from the power grid and unnecessarily connect the switchgear to the diesel generators which would start up, then later shut down, leading to a complete power shutdown to the bus supplying power to safety-related equipment.

In the case of the overvoltage relay failures, the motors associated with the safety-related equipment could be degraded due to overvoltage.

Corrective Action

These four relays are being returned to Brown Boveri Electric for repair or replacement. More information will be provided in our next report.