

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

35 JAN 14 January 05, 1985

BLRD-50-438/85-03  
BLRD-50-439/85-03

U.S. Nuclear Regulatory Commission  
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

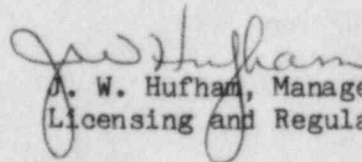
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - POTENTIAL DEFICIENCY IN IMPROPERLY  
RATED FIELD WIRING TO SOLENOID VALVES - BLRD-50-438/85-03, BLRD-50-439/85-  
03 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
A. Ignatonis on December 13, 1984 in accordance with 10 CFR 50.55(e) as  
NCR BLN EEB 8413. Enclosed is our first interim report. We expect to  
submit our next report by October 22, 1985.

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 Regulations

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  
POTENTIAL DEFICIENCY IN IMPROPERLY RATED FIELD WIRING TO SOLENOID VALVES  
BLRD-50-438/85-03, BLRD-50-439/85-03  
NCR BLN EEB 8418  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

A deficiency has been identified at Bellefonte Nuclear Plant (BLN) involving field-installed electrical cables. Specifically, field wiring that terminates within the housing of certain solenoid valves has insulation which is not rated for temperatures which could possibly be generated within the valves. This condition was originally identified in NRC-OIE Information Notice 84-68.

Two manufacturers of solenoid valves procured by TVA for BLN and requiring field wiring to terminate within the housing are Target Rock and Valcor. These valves have been identified as having potential internal temperatures reaching 280°F. TVA presently uses wire with insulation rated at either 90°C (194°F) or 125°C (257°F) to terminate solenoid valves. Solenoid valves from other manufacturers procured by TVA which do not have vendor-supplied pigtails could also be affected.

This condition has also been identified for Watts Bar Nuclear Plant (WBN) and is being separately reported as nonconformance report (NCR) WBN EEB 8425.

Interim Progress

TVA is in the process of investigating the subject deficiency. Further information will be provided in our next report.