

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

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January 22 1985

WBRD-50-390/85-05
WBRD-50-391/85-04

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:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - POTENTIAL DEFICIENCY IN IMPROPERLY
RATED FIELD WIRING TO SOLENOID VALVES - WBRD-50-390/85-05 AND
WBRD-50-391/85-04 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Al Ignatonis on December 13, 1984 in accordance with 10 CFR 50.55(e)
as NCR WBN EEB 8425. Enclosed is our first interim report. We expect to
submit our next report on or about February 8, 1985. A several day delay
of this submittal was discussed with Inspector Ignatonis on January 15,
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. A. Doman
for J. W. Hufham, Manager
Licensing and Regulations

Enclosure

cc (Enclosure):

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

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

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
POTENTIAL DEFICIENCY IN IMPROPERLY RATED FIELD WIRING TO SOLENOID VALVES
NCR WBN CEB 8425
WBRD-50-390/85-05 AND WBRD-50-391/85-04
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

A deficiency has been identified at Watts Bar Nuclear Plant (WBN) 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 WBN 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 pigtailed could also be affected.

This condition has also been identified for Bellefonte Nuclear Plant (BLN) and is being separately reported as nonconformance report (NCR) BLN EEB 8418. (BLRD-50-438/85-03, BLRD-50-439/85-03).

Interim Progress

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