

Tennessee Valley Authority

PART 21 IDENTIFICATION NO. 81-341-000

COMPANY NAME Authority

DATE OF LETTER 1/12/81 DOCKET NO. 50-391

DATE DISTRIBUTED 1/16/81 p.m. ORIGINAL REPORT SUPPLEMENTARY

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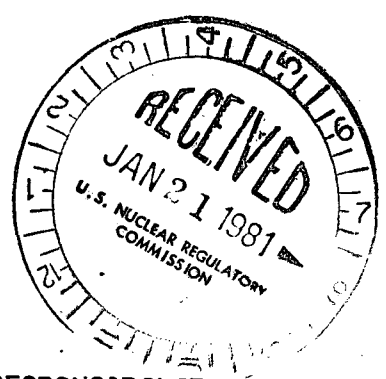
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ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOWUP AS SHOWN BELOW:

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OTHER

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REV. 8/1/80 9/17/80 12/2/80

11RC Part 21 ID# 81-391-008
TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

January 12, 1981

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WB^LRD-50-391/80-04

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNIT 2 - IMPROPER INSTALLATION OF COMPRESSION-TYPE
TERMINALS ON SINGLE-PHASE STATIC INVERTERS - WB^LRD-50-391/80-04 - FINAL
REPORT

The subject nonconformance was initially reported to NRC-OIE Inspector
M. Thomas on December 12, 1980, in accordance with 10 CFR 50.55(e) as
NCR 2810R. Enclosed is our final report. TVA considers 10 CFR Part 21
applicable to this nonconformance.

If you have any questions concerning this matter, please get in touch with
D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., Director (Enclosure)✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

WATTS BAR NUCLEAR PLANT UNIT 2
IMPROPER INSTALLATION OF COMPRESSION-TYPE TERMINALS
ON SINGLE-PHASE STATIC INVERTERS

WRD-50-391/31-04

10 CFR 50.55(e)

FINAL REPORT

Description of Deficiency

An insufficient number of crimps or improper crimps were made by Solid State Controls, Incorporated, on some compression-type terminals on single-phase static inverters. These crimps grip the 300 MCM cable inside the terminal barrel to complete the electrical connections. Properly installed terminals require two crimps. Some terminations had only one crimp and some had three crimps. Because the lug barrels were not long enough to accept the extra crimp, the third crimp was made on the cable which could have caused a weakened point. One crimp might not have been sufficient to complete the electrical connection and the cable being weakened by the third crimp might have caused it to fail which could have caused the single-phase static inverters to become inoperable.

Safety Implications

These static inverters convert direct current from the normal dc power supply during normal operation, or from the vital 125-volt dc control system batteries during emergency operation, to alternating current which is used for reactor instrumentation and control systems. Failure of these systems to operate properly could adversely affect the safety of the plant.

Corrective Action

TVA has obtained approval from the vendor to correct the number of crimps or replace the terminals as necessary. Modifications will be completed by February 1, 1981.

JAN 19 1981