

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

NRC Part 21 ID No.
80-257-003

400 Chestnut Street Tower II

August 29, 1980

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:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - IMPROPER INSERTION OF BUFFER CARDS
- NCR BLN NEB 8006 - FINAL REPORT

On July 31, 1980, R. W. Wright, NRC-OIE Region II, was informed that the subject nonconformance was determined to be reportable in accordance with 10 CFR 50.55(e). Enclosed is our final report. We consider Part 21 to be applicable to this deficiency.

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1 AND 2
IMPROPER INSERTION OF BUFFER CARDS
NCR BLN NEB 8006
10 CFR 50.55 (e)
FINAL REPORT

Description of Deficiency

Improper installation in both power channels of the Essential Control Instrumentation (ECI) System of the Bailey Control Company current or voltage buffer cards in Bailey Control Company buffer modules could result in loss of power to both channels of the ECI System. The cause of this concern is the possible ambiguity in the wording of the Product Instruction Book, E92-79, describing replacement of buffer cards in the buffer modules.

Safety Implications

It is possible to interpret a statement in the Bailey Control Company Product Instruction Book E92-79 for input buffer cards to mean that those cards may be replaced without removing the buffer module. It may be possible during field changes to improperly install at least one card in each of the power channels resulting in a potential loss of power to both channels. While it is equally possible to install the buffer cards properly without removal of the buffer module, removal of the buffer module before installation of the card permits visual inspection to ensure proper installation. For this concern to lead to a problem having safety significance, it would be necessary to postulate improper installation in both channels, a situation in which ECI is needed, and then shorting of both channels during the time of need.

Corrective Action

Corrective action consists of rewording of the maintenance instructions to instruct that the buffer module be removed before buffer card insertion so that visual inspection can confirm proper installation.

The reworded instruction books have been provided and are being distributed to appropriate employees. This distribution will be completed by September 19, 1980.

PART 21 IDENTIFICATION NO. 80-257-003

COMPANY NAME Tennessee Valley Authority

DATE OF LETTER 8/29/80

DOCKET NO. 80-436143A

DATE DISTRIBUTED 9/6/80

ORIGINAL REPORT

SUPPLEMENTARY

DISTRIBUTION:

REACTOR (R)

FUEL CYCLE &

SAFEGUARDS (S)

IE FILES

MATERIALS (M)

IE FILES

AD/ROI (2)

IE FILES

AD/SG

AD/RCI

AD/FFMSI

AD/ROI

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

VENDOR BR. R-IV

VENDOR BR. R-IV

VENDOR BR. R-IV

LOEB / MPA MNB 5715

NMSS / FCMS SS-396

NRR/DOL

AEOD MNB 7602

LOEB / MPA MNB 5715

NMSS / SG SS-881

NRR/DOE

AEOD MNB 7602

LOEB / MPA MNB 5715

NRR/DSI

ASLBP E/W 450

AEOD MNB 7602

NRR/DST

SAP/SP MNB-7210A

ASLBP E/W 450

NRR/DOL

ASLBP E/W 450

CENTRAL FILES 016

CENTRAL FILES 016

CENTRAL FILES (CHRON)

CENTRAL FILES (CHRON)

PDR

CENTRAL FILES SS-396

LPDR

PDR

TERA

LPDR

TERA

CENTRAL FILES 016
CENTRAL FILES (CHRON)
PDR
LPDR
TERA

ACTION:

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

IE

NRR

NMSS

OTHER

RCI
ROI
SG
FFMSI

central files

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REV. 8/1/80

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