

Central File

USNRC REGION 2
ATLANTA, GEORGIA
VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

September 15, 1980

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

Serial No. 690
NO/RMT:ms
Docket Nos. 50-280
50-281
50-338
50-339
License Nos. DPR-32
DPR-37
NPF-4
NPF-7

Dear Mr. O'Reilly:

SUBJECT: I. E. BULLETIN 80-20

This is in response to I. E. Bulletin 80-20, "Failures of Westinghouse Type W-2 Spring Return to Neutral Control Switches". Our responses for Surry Power Station Unit Nos. 1 and 2 and North Anna Power Station Unit Nos. 1 and 2 are attached.

If you have any questions or require additional information, please contact this office.

Very truly yours,

B.R. Sylvia
B. R. Sylvia
Manager - Nuclear
Operations and Maintenance

Attachment

cc: Director, Division of Reactor Operations Inspection
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission

Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing

Mr. Robert A. Clark, Chief
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SURRY POWER STATION
RESPONSE TO IEB BULLETIN 80-20 - "FAILURE OF
WESTINGHOUSE TYPE W-2 SPRING RETURN TO
NEUTRAL CONTROL SWITCHES"

Upon review, it was found that there are five Westinghouse Type W-2 switches with the "spring-return-to-neutral" feature on each unit at Surry. None of these switches are in control circuits for safety-related applications.

Prior to a determination of the safety relationship of the switches, the testing as prescribed by paragraph 2 of IEB 80-20 was carried out. No failures were found.

As requested by the forwarding letter, the manpower expended in conducting the reviews and testing to support this response was 52 man-hours.

RESPONSE TO IE BULLETIN 80-20
NORTH ANNA UNITS 1 AND 2

1. A review of the North Anna Unit 1 and 2 design was made for safety related applications utilizing Westinghouse Electric Corporation Type W-2 control switches with spring-return-to-neutral switch action. The following applications were identified:
 - Reactor Protection System manual trip switch - 2 switches per unit.
 - Reactor Protection System trip reset switch - 2 switches per unit.
 - Emergency diesel generator governor control switch - 2 switches per unit.
 - Emergency diesel generator voltage control switch - 2 switches per unit.

Although the above functions utilize W-2 switches with spring-return-to-neutral action, the design of the circuits is not of the type described in the Bulletin.

The Reactor Protection System trip and reset control switches have no automatic safety related functions via neutral contacts. Reactor protection automatic signals actuate an undervoltage device which is separate from the control switches. The emergency diesel generator governor control and voltage control switches have no automatic control through the neutral contacts.

2. Before a final determination was made concerning the applicability of all station W-2 switches, continuity tests were conducted as a precautionary measure. In addition to the switches listed above, other W-2 spring-return switches utilized in non-safety related applications were tested. These applications included: steam dump mode selector switch, steam dump control switches, makeup control switch, and the pilot wire test switches. The neutral contacts for all switches tested were found to be in the correct position.
3. Since no applications of W-2 switches as described in this Bulletin were found at North Anna, no long term corrective measures are planned.
4. The Bulletin requests an estimate of manpower expended to review the concerns of the Bulletin and preparation of the report.
 - Research W-2 switch applications - 2 man days
 - Continuity testing of W-2 switch applications - 3 man days
 - Preparation of report - 1/2 man day