

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261



R. H. LEASBURG
VICE PRESIDENT
NUCLEAR OPERATIONS

October 12, 1981

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 585
NO/SWB:lms
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

FIRE PROTECTION DESIGN INFORMATION
SURRY POWER STATION

In a conference phone call September 22, 1981 with Veeco, NRC, and Brookhaven National Laboratory, a list of questions were discussed concerning our compliance with Sections III.G and L of Appendix R at Surry Power Station. These questions had been previously forwarded to Veeco.

During the telephone conversation, Brookhaven National Laboratory requested certain detailed information concerning circuit isolation. Per your request, Attachment I of this letter provides information and schematics which delineate circuit isolation used to comply with Appendix R of 10 CFR 50.48.

If you have any questions, please contact us.

Very truly yours,

R. H. Leasburg

Attachment

cc: Mr. J. P. O'Reilly, Director
Office of Inspection and Enforcement
Region II

Mr. Robert Hall
Brookhaven National Laboratory
Building 130
Upton, New York 11973

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Aperture Dist:
SEND DRAWINGS to:
B.C.

8110150176 811012
PDR ADDCK 05000280
PDR

FIRE PROTECTION DESIGN INFORMATION

1. Type of Control Transfer Relays for 4160 V Switchgear and 480 V Motor Control Center - Electros witch Series 31 Latching Switch Relay.
2. Type of Instrumentation Isolation Device - Westinghouse Signal Isolator
Model No. H-CSD131-110
Part No. 4111083-002
3. Type of Isolation between 125 V DC station battery and the Remote Monitoring Panel - Power to the Remote Monitoring Panel is routed from each unit's 125 V DC distribution panel in the control room through sleeves in the control room ceiling into the cable tray area. The distribution panel and sleeves in the control room ceiling are located in opposite sides of the control room more than 20 feet apart. The two power feeds are isolated from one another by a three-position, POWER selector switch (Unit 1 - OFF - UNIT 2) located on the front of the RMP panel and by two protective relays (Westinghouse ARD 6605 Industrial Control Relay). The OFF position of the switch disconnects both unit's 125 V DC batteries from the panel. Selection of either the Unit 1 or Unit 2 position will disconnect the other unit's batteries from the panel.
4. Schematics of Isolation Scheme for the 4160 V Switchgear and 480 V Motor Control Center - (See attached drawing).