

Public Service
Electric and Gas
Company

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November 20, 1985

Dr. Thomas E. Murley, Administrator
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

NRC INSPECTION REPORT #85-42
NOTICE OF VIOLATION
HOPE CREEK GENERATING STATION

Your letter dated October 21, 1985, transmitted the above referenced Inspection Report which contained a Notice of Violation citing one (1) item of noncompliance involving inadequate design control for DC control power alarm circuits.

As of July 7, 1985, design of Class 1E 480 VAC Unit Substation (USS) Main Control Room annunciator and computer alarm points was not accurately translated into drawings and "as built" installation. Design logic diagram E-3134-0(Q) Revision 7 indicates that on loss of 125 VDC control power to each of the Class 1E 480 VAC USS a common main control room annunciator and specific computer alarm points will be actuated. Electrical Schematic Diagram E-0097-0(Q) Sheet 2, Revision 5, and the as built configuration, show power for the annunciator and computer points supplied by the same 125 VDC source being lost. On loss of 125 VDC control power, power to corresponding annunciator and computer points is also lost so that no alarm is generated.

Corrective Steps Taken and Results Achieved

The design of the alarms for the Class 1E Unit Substation (USS) was reviewed and it was determined that these alarms provide the control room operator the status of the USS and the connecting loads. A Design Change Package (DCP-581) has been issued, changing the alarm power source to the Bailey logic panel. This design change modifies the alarm circuit to achieve the proper alarm on loss of 125 VDC at the USS.

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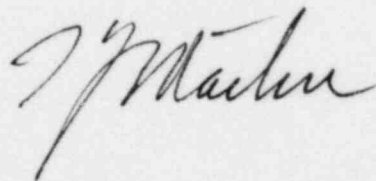
Corrective Steps Taken to Preclude Recurrence

In order to assure that other alarm circuits do not have similar problems, a review of the alarm circuits on all electrical distribution systems was performed. This review included the alarm circuitry for the 7.2KV, 4KV, and 480V Unit Substations, all of the DC system and the uninterruptable power supply (UPS) systems. It was determined that all other alarm circuits complied with the design intent and that the problem identified in the Notice of Violation was unique.

The Date of Full Compliance

The Design Change Package (DCP-581) was issued on August 28, 1985. The Engineering review of other alarm circuits was completed by November 11, 1985. The modification work will be complete by December 20, 1985.

Very truly yours,



C Office of Inspection and Enforcement
Division of Reactor Construction Inspection
Washington, D. C. 20555

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