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Public Service Electric and Gas Company 80 Park Plaza Newark, N.J. 07101 201/430-8316

April 13, 1984

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:

SIGNIFICANT CONSTRUCTION DEFICIENCY  
JACKET WATER CHECK VALVES  
HOPE CREEK GENERATING STATION

On March 14, 1984, a verbal report was made to Region I, Office of Inspection and Enforcement representative, Mr. E. Kelly, advising of a potentially significant construction deficiency concerning jacket water check valves manufactured by GPE Controls that were installed on our Emergency Diesel Generators by Colt Industries. The following final report is provided in accordance with 10CFR50.55(e).

Description of the Deficiency

Bechtel Power Corporation, our Architect/Engineer and Constructor, has advised us that a GPE Controls jacket water check valve failed during factory testing of a Diesel Generator set for Public Service Company of Indiana. The noted failure was described as "disassembly in service". Four of the same GPE Controls check valves had been installed on our Hope Creek Diesel Generators. Colt Industries has filed a Part 21 report with Region III regarding this problem.

Safety Analysis

The Emergency Diesel Generators are safety related and supply power to engineered safeguard equipment and other safety related equipment required for safe shutdown of the

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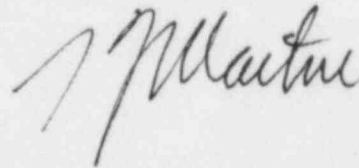
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plant if offsite power is not available. Had this problem gone undetected and uncorrected, there was the potential for loss of one or more of the four standby Diesel Generator sets. We, therefore, consider this condition to be reportable in accordance with 10CFR50.55(e).

Corrective Action

The four jacket water check valves have been removed from the Emergency Diesel Generators and returned to Colt Industries in accordance with their instructions. The valves will be reworked by GPE Controls in accordance with Colt's Part 21 Report.

Very truly yours,



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Division of Reactor Construction Inspection  
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