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Public Service
Electric and Gas
Company

Thomas J. Martin
Vice President
Engineering and Construction

80 Park Plaza, Newark, NJ 07101 201-430-8316 Mailing Address: P.O. Box 570, Newark, NJ 07101

April 15, 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:

SIGNIFICANT CONSTRUCTION DEFICIENCY
MOTOR OPERATED VALVE - HPCI
HOPE CREEK GENERATING STATION

On March 15, 1985, a verbal report was made to Region I, Office of Inspection and Enforcement representative, Mr. J. Strosnider, advising of a potentially significant construction deficiency concerning the performance of a motor operated valve supplied by Anchor-Darling. The following interim report is provided in accordance with 10CFR50.55(e).

Description of the Deficiency

During the initial startup testing of HPCI steam supply valve 1-FD-HV-F001, the circuit breaker tripped when the motor operator was energized. The valve, as supplied by Anchor-Darling, is equipped with a Limitorque direct current motor operator. Our Architect/Engineer and Constructor, Bechtel, has investigated the problem with Limitorque Corporation. Limitorque has informed us that the actual locked rotor current for the installed motor is 343 amperes instead of the 87 amperes as shown on the motor data sheet. The circuit breaker had been set to trip at 140 amperes in accordance with sheet 58 of drawing E-1465-0. Consequently, the actual locked rotor current of 343 amperes caused the breaker to trip whenever the motor was energized. Startup Deviation Report (SDR) No. BJ-0068 has been issued to document and control the discrepant condition.

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Safety Analysis

Had the deficient condition gone undetected and uncorrected, tripping of the circuit breaker as described above would result in the failure of the HPCI steam supply valve to open and provide steam to the HPCI turbine.

Since the High Pressure Coolant Injection (HPCI) System is an Emergency Core Cooling System (ECCS) and required for safe shutdown of the plant, we conclude that the subject deficiency is reportable in accordance with 10CFR50.55(e).

Corrective Action

The existing motor will be replaced with a motor as described on the motor data sheet. This motor will be compatible with existing circuitry.

Bechtel is reviewing with Anchor-Darling, the valve supplier, all other DC motor operated valves supplied to the Hope Creek project to ensure that the problem is isolated to the subject valve.

We anticipate providing you with a further report by June 21, 1985, detailing the results of the review and the status of corrective action.

Very truly yours,

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

NRC Resident Inspector - Hope Creek
P. O. Box 241
Hancocks Bridge, NJ 08038

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, GA 30339