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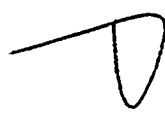
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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv 05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME: CURTIS, N.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.  
 RECIP. NAME: RECIPIENT AFFILIATION:

SUBJECT: Interim deficiency rept re classification of solenoid valves as nonsafety-related when used as pilot valves for safety-related process valves. Nonsafety-related solenoid valves may fail in position that prevents process valve air venting.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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NORMAN W. CURTIS  
Vice President-Engineering & Construction  
821-5381

May 13, 1980

Mr. Boyce H. Grier  
Director, Region I  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
INTERIM REPORT OF A DEFICIENCY ON  
PILOT SOLENOID VALVE CLASSIFICATION-MCAR 1-55  
ERS 100450/100508                      FILE 840-4/900-10  
PLA-483

Dear Mr. Grier:

This letter serves to confirm information provided by telephone to NRC Inspector Mr. G. Rhoads by Mr. R. A. Schwan of PP&L on April 23, 1980. During that conversation, Mr. Rhoads was advised that the subject condition was under evaluation for reportability under the provisions of 10CFR50.55(e).

The deficiency involves the classification of solenoid valves as nonsafety-related when they are used as pilot valves for safety-related process valves. These valves are used in such Susquehanna SES systems as RCIC, RHR, HPCI, Core Spray, CRD Hydraulics, Recirculation System, RHR Service Water, Emergency Service Water, Main Steam and Service Water.

The problem was initially documented on Bechtel Design Change Request (DCR) 080 which affects SSES Technical Specification 8856-J-69. The DCR specifies various changes which are to be made to presently installed and to-be-installed solenoid valves. These changes include replacing non-safety with safety-related solenoid valves, providing seismic installation, installing safety class tubing to process valve operators and changing electrical circuit schemes from non-safety to safety-related. The deficiency has been formally documented in Bechtel MCAR 1-55 for tracking and final closure.

The condition is such that if this deficiency were to have gone uncorrected, it could have adversely affected the safe operation of the nuclear power plant. Therefore, the deficiency is deemed reportable under 10CFR50.55(e).

The safety implications are such that non safety-related solenoid valves could have prevented process valves from failing in their safe position in the following ways:

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May 13, 1980

1. Non seismic interconnecting tubing may be crimped in a seismic event thereby preventing air from being vented from the process valve operator.
2. Non-safety-related solenoid valves may fail in the position that prevents air from being vented from the process valve operator.
3. Non-safety-related circuits may act in such a manner as to improperly energize the pilot solenoid valve and incorrectly apply air pressure to the process valve operator, thereby causing an undesirable valve lineup in the associated safety system.

Since the details of this report provides information relevant to the reporting requirements of 10CFR21, this correspondence is considered to also discharge any formal responsibility PP&L may have for reporting in compliance thereto.

A corrective action plan for the deficiency is being prepared and the details of its implementation will be provided in a final report which we expect to issue in July, 1980.

Very truly yours,



N. W. Curtis  
Vice President-Engineering & Construction

FLW:mcb

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