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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 CURTIS, N.W. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 GRIER, B.H. Region 1, Philadelphia, Office of the Director

MA/1

SUBJECT: Interim deficiency report re excessive voltage drops in  
 250 VDC power cables supplying motor operated valves. Caused  
 by power cable lengths & line resistances. Alternatives being  
 evaluated. Final report will be submitted by Jan 1981.

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

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**PP&L**

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

November 17, 1980

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

REGISTRATION  
SERVICES  
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REC'D NOV 20 11 10 53

SUSQUEHANNA STEAM ELECTRIC STATION  
INTERIM REPORT OF A DEFICIENCY RESULTING FROM  
EXCESSIVE VOLTAGE DROPS IN POWER SUPPLIES TO  
DC MOTOR OPERATED VALVES  
ERs 100450/100508      FILE 840-4/900-10  
PLA-570

50-387  
50-388

Dear Mr. Grier:

This letter serves to confirm information provided by telephone to NRC Region I Inspector Mr. J. Mattia by Mr. A. R. Sabol of PP&L on October 15, 1980. During that conversation Mr. Mattia was advised that the subject condition was under evaluation for reportability under the provisions of 10CFR50.55(e).

The deficiency involves excessive voltage drops in 250 VDC power cables supplying motor operated valves. The voltage drops are due to power cable lengths and the attendant line resistances that are so excessive as to prevent the motors from starting.

PP&L Engineering has performed calculations for all 250 VDC motor operated valves which draw more than 10 amps inrush current and has determined that the excessive voltage drops would affect a significant number of these motor operated valves.

The motor operated valves in question are located in the Reactor Water Cleanup, Residual Heat Removal, Reactor Core Isolation Cooling, and High Pressure Coolant Injection systems. Since the valves in these systems are required to operate to mitigate a design basis event, the aforementioned failure to operate is considered to represent a reportable deficiency under 10CFR50.55(e).

PP&L Nonconformance Report (NCR) #80-335 and Bechtel NCR #6668 have been written to document and control the condition and provide for resolution and corrective action.

Since the details of this report provide 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.

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Mr. Boyce H. Grier

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November 17, 1980

PP&L Engineering is in the process of evaluating several alternatives in order to determine the optimum course of action. We estimate that a final report will be available in January, 1981.

Very truly yours,



N. W. Curtis  
Vice President-Engineering & Construction-Nuclear

ARS:mcb

cc: Mr. Victor Stello (15)  
Director-Office of Inspection & Enforcement  
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