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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania  
 AUTH. NAME: CURTIS, V.W. AUTHOR AFFILIATION: Pennsylvania Power & Light Co.  
 RECIP. NAME: YOUNG BLOOD, B.J. RECIPIENT AFFILIATION: Licensing Branch 1

DOCKET #  
 05000387  
05000388

SUBJECT: Responds to NRC concerns re undervoltage protection when  
 grid is between 15% & 95% of rated voltage. Removing LUCA  
 permissive from 2/E 3 & 4 relays will result in trip  
 regardless of LUCA signal condition.

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EXTERNAL:	ACRS 27	16	16	LPDR 03	1	1
	NSIC 05	1	1			

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*MAA 4*

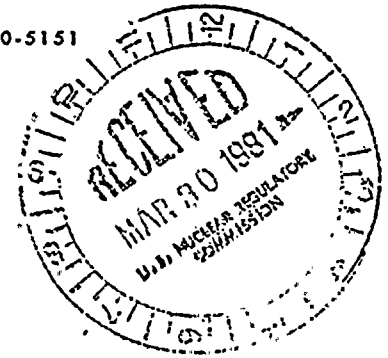
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NORMAN W. CURTIS  
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770-5381



March 26, 1981

Mr. B.J. Youngblood  
Licensing Branch 1  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Susquehanna Steam Electric Station  
Undervoltage Protection  
ER100450 File 841-2  
PLA-685

Docket Nos. 50-387 and 50-388

Dear Mr. Youngblood:

In regard to your concern for undervoltage protection when the grid is between 15% and 95% of rated voltage, we submit the following. Please refer to the relay setting table. Relay 27B 3&4 should be corrected to delete the LOCA permissive. Therefore, regardless of the LOCA signal condition, relays 27B 3&4 will trip on undervoltage of 17 sec. Thus electrical class 1E equipment are protected.

The relay setting table will be corrected to show no LOCA permissive for these relays.

Very truly yours,

*N.W. Curtis*

N.W. Curtis  
Vice president-Engineering and construction-Nuclear

cc: R.M. Stark

bcc: N.W. Curtis  
W.E. Barberich  
B.A. Snapp  
C.T. Coddington  
R.J. Shovlin

*Boo/  
s  
1/0*

PENNSYLVANIA POWER & LIGHT COMPANY

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