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 AUTH. NAME                      AUTHOR AFFILIATION  
 CURTIS, N.W.                    Pennsylvania Power & Light Co.  
 RECIP. NAME                    RECIPIENT AFFILIATION  
 BUTLER, W.R.                    Licensing Branch 2

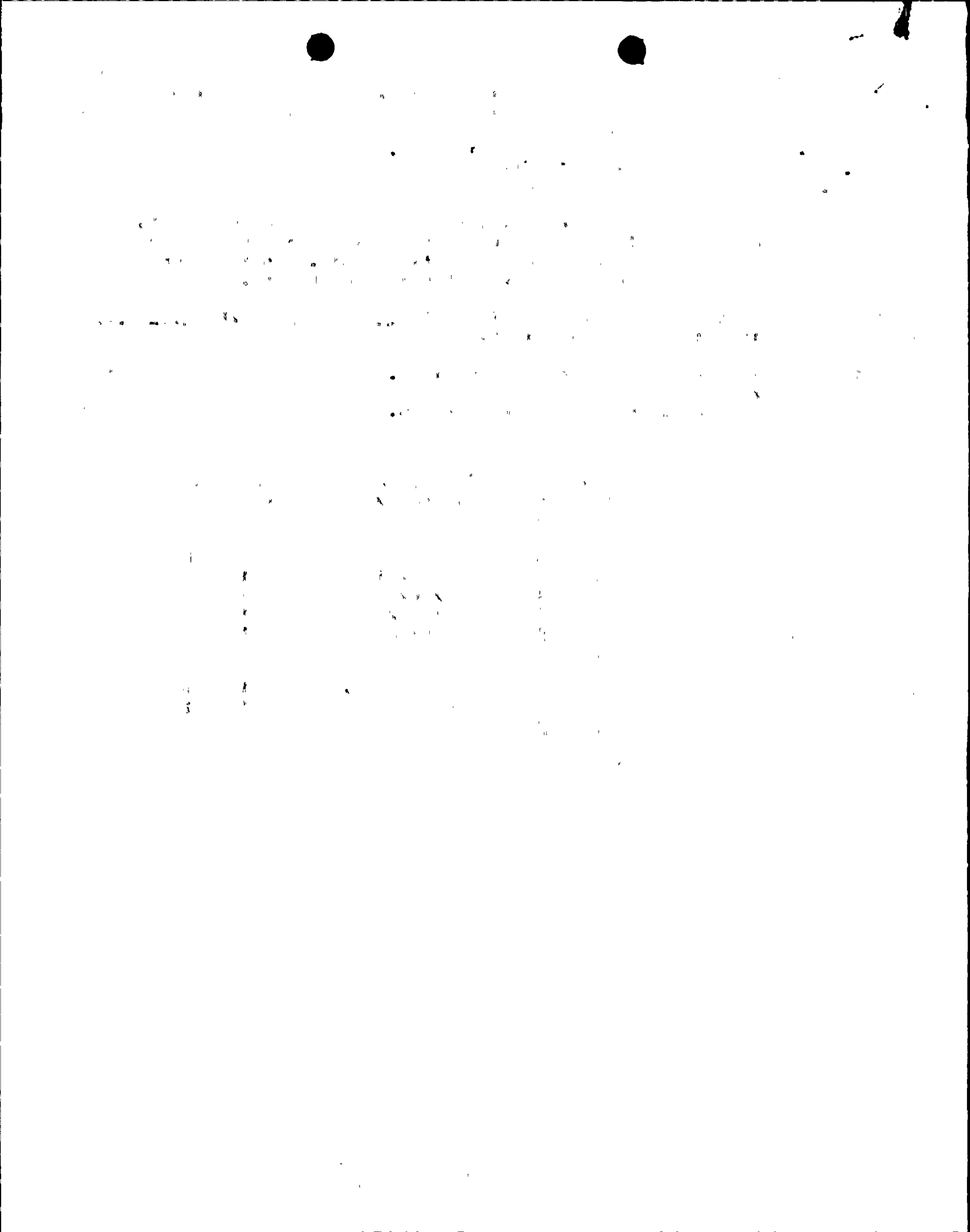
SUBJECT: Responds to request for addl info re proposed Amends 58 & 13 to Licenses NPF-14 & NPF-22 respectively, allowing removal of diesel generators from svc on one time basis. Offsite power can be restored from combustion turbine generators.

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**Pennsylvania Power & Light Company**

Two North Ninth Street • Allentown, PA 18101 • 215 / 770-5151

Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215/770-7501

**JUL 01 1985**

Director of Nuclear Reactor Regulation  
Attention: Mr. W. R. Butler, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
ADDITIONAL INFORMATION FOR PROPOSED  
AMENDMENT NO. 58 TO NPF-14 AND PROPOSED  
AMENDMENT NO. 13 TO NPF-22  
ER 100450 FILE 841-8  
PLA-2501

Docket Nos. 50-387  
50-388

Dear Mr. Butler:

This letter is in response to a request from your Staff for additional information in support of our request for a one time exemption to the Technical Specifications to allow the diesel generators one at a time to be removed from service for an accumulated time of 60 days.

Offsite Power System

The offsite transmission system for Susquehanna SES is described in Section 8.2 of the Final Safety Analysis Report. Based on historical operating data (1975-81) for the PP&L transmission network, the annual forced outage rate per 100 circuit miles for 500KV and 230KV lines is 1.05 and 2.24 outages, respectively.

Transient stability studies were conducted in 1976-77, 1980-81 and 1983. These studies show that for various 230KV and 500KV bus and line faults, system stability and satisfactory recovery voltages are maintained resulting in uninterrupted supply to the offsite power system. These studies also conclude that no single occurrence is likely to cause a simultaneous outage of all offsite sources during operating, accident or adverse environmental conditions.

In the unlikely event that an area-wide blackout were to occur, offsite power can be re-established to Susquehanna SES from either combustion turbine generators or hydro units. This restoration time is approximately 2 hours.

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SSES  
ER 100450  
Mr. W. R. Butler

PLA-2501  
File 841-8

Safety Analysis

The analysis of accident conditions as presented in the Final Safety Analysis Report assumes that only three of the four diesel generators are assumed to operate. With one diesel generator out of service, Susquehanna SES is still bounded by the safety analysis presented in the Final Safety Analysis Report. With one diesel generator unavailable, Susquehanna SES has lost its redundancy with respect to the diesel generators.

Outage Time

The 60 days for the diesel generators to be out of service is the accumulated time for all four diesel generators (one at a time) to be unavailable. This accumulated time is expected to extend for a period of approximately 4 months.

Testing Frequency

The proposed testing frequency for the diesel generators during this one time exemption is based upon those frequencies proposed in Generic Letter 84-15. A reduced frequency of testing is justified in light of the recent concerns at North Anna.

If you have any additional questions, please contact us.

Very truly yours,



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

cc: M. J. Campagnone      USNRC  
R. H. Jacobs              USNRC

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