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AUTH.NAME AUTHOR AFFILIATION
CURTIS,N.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
YOUNGBLOOD,B.J. Licensing Branch 1

SUBJECT: Forwards util response to FSAR Questions 230.5,230.6 & 230.7.Units will not be operated in natural circulation mode or w/only one recirculation pump in operation.Stability analysis will be performed for second cycle.

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PP&L

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NORMAN W. CURTIS
Vice President-Engineering & Construction-Nuclear
770-5381

March 25, 1981

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

Susquehanna Steam Electric Station Docket Nos. 50-387
Response to Questions 230.5, 230.6 and 230.7 and 50-388
ER 100450 File 841-2
PLA-678

Dear Mr. Youngblood:

Attached are the responses to FSAR Questions 230.5, 230.6 and 230.7.

Very truly yours,

N. W. Curtis/s

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

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QUESTION 230.5:

The staff is performing a generic study of the hydrodynamic stability characteristics of LWRs under normal operation, anticipated transients, and accident conditions. The results of this study will be applied to the staff review and acceptance of stability analyses and analytical methods now in use by the reactor vendors. In the interim, the staff concludes that past operating experience, stability tests, and the inherent thermal-hydraulic characteristics of LWRs provide a basis for accepting the Susquehanna stability evaluation for normal operation and anticipated transient events. However, in order to provide additional margin to stability limits, natural circulation operation of Susquehanna will be prohibited until the staff review of these conditions is complete. Any action resulting from the staff study will be applied to Susquehanna.

RESPONSE:

PP&L does not plan to operate the Susquehanna units in the natural circulation mode. The plant technical specifications are consistent with your position, and require that appropriate actions be taken if no recirculation loops are in operation.

QUESTION 230.6:

Because the Susquehanna stability analysis is for the first cycle only, a new analysis must be reviewed and approved by the staff prior to second cycle operation.

RESPONSE:

PP&L will perform a stability analysis for the second cycle of operation.

QUESTION 230.7:

No analysis has been presented for MCPR limits or stability characteristics for one loop operation. One loop operation will not be permitted until supporting analyses are provided and are approved by the staff.

RESPONSE:

PP&L does not plan to operate the Susquehanna units with only one recirculation loop in operation, therefore, no additional analysis are required. The plant technical specifications are consistent with your position, and require that appropriate actions be taken with one recirculation loop not in operation.