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CURTIS,N.W. Pennsylvania Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Describes steam bypass analysis to be conducted to determine max wetwell temp for equipment qualification.Confirmation acceptability of analysis requested.

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JUL 27 1982

Mr. A. Schwencer, Chief
Licensing Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
STEAM BYPASS CALCULATION FOR EQUIPMENT QUALIFICATION
SER ITEM 3.11.3.3
ER 100450 FILE 841-2 Docket Nos. 50-387
PLA-1219 50-388

Dear Mr. Schwencer:

In accordance with our telephone conversation with your Messrs R. Perch and H. Garg, this letter is provided to describe the steam bypass analysis to be conducted for Susquehanna SES to determine maximum wetwell temperature for equipment qualification purposes. Your confirmation as to the acceptability of this analysis is requested. Completion of this analysis is required prior to exceeding 5% of full power. The analysis will utilize the following:

1. Analysis Method - computer program "CONTEMPT-EI/28B"

2. As per Standard Review Plan 6.2.1.1.C Appendix I Rev. 1 July 1981 use an $A/\sqrt{K} = 0.050\ FT^2$.

3. Small Break LOCA

   3.1 Break Size - 0.1 FT^2 per previous submittal (PLA-923)

   3.2 Reactor Pressure -1020 PSIA constant over analysis time.

4. Containment geometry from SSES FSAR which includes heat sinks per prior direction from containment systems branch.

5. Wetwell spray manually actuated 24.2 minutes after suppression chamber air space pressure reaches 30 psig (44.7 psia). This

B001

is consistent with case #2 of our September 3, 1982 submittal (PLA-923).

Should you have any questions please contact Mr. W. W. Williams at (215) 770-4274.

Very truly yours,

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

WWW/mks

cc: R. Perch - NRC
H. Garg - NRC