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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388  
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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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Pennsylvania Power & Light Company

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

Norman W. Curtis  
Vice President-Engineering & Construction-Nuclear  
215 / 770-5381

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  
PLA-1219

FILE 841-2

Docket Nos. 50-387  
50-388

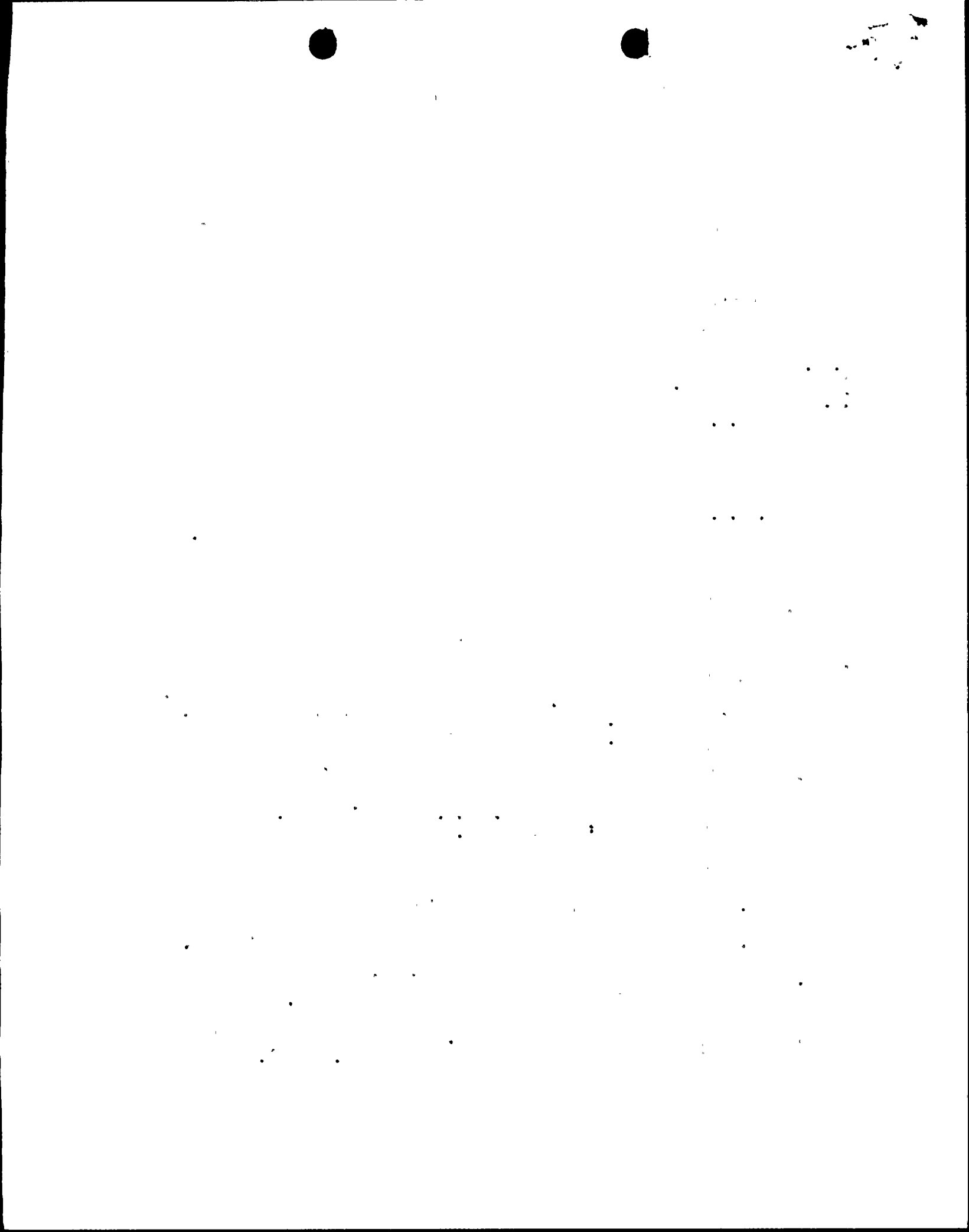
Dear Mr. Schwencer:

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  $A/\sqrt{K} = 0.050 \text{ FT}^2$ .
3. Small Break LOCA
  - 3.1 Break Size -  $0.1 \text{ FT}^2$  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

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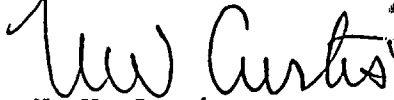
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SSES PLA-1219  
ER 100450 File 841-2  
Mr. A. Schwencer

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

