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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
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 KEISER, H.W.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 MILLER, C.L.      Project Directorate I-2

SUBJECT: Submits results of detailed review of calculations  
 supporting data in 920313 & 890417 responses to station  
 blackout rule covering HPCI & RCIC room temps.

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 TITLE: OR Submittal: Station Blackout (USI A-44) 10CFR50.63, MPA A-22

NOTES: LPDR 1 cy Transcripts.      05000387  
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APR 14 1992

Director of Nuclear Reactor Regulation  
Attention: Mr. C. L. Miller, Project Director  
Project Directorate I-2  
Division of Reactor Projects  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION  
STATION BLACKOUT HPCI AND RCIC ROOM  
TEMPERATURES  
PLA- 3761

FILE A17-20F/R41-2

Docket Nos. 50-387  
and 50-388

- References: 1) PLA-3745, "SSES Response to Station Blackout Safety Evaluation," March 13, 1992.
- 2) PLA-3166, "SSES Station Blackout Rule 10CFR50.63," April 17, 1989.

Dear Mr. Miller:

Per the March 19, 1992 telephone conversation between PP&L and the NRC, the following information is being provided as a clarification to the concerns expressed by the Station Blackout (SBO) reviewer, Mr. David Shum. Mr. Shum questioned the differences in the HPCI/RCIC room temperatures reported via the above two references. Specifically, the revised response (reference 1) states that PP&L recalculated the Dominant Area of Concern (DAC) temperatures using COTTAP2 and "conservative" inputs. However, when comparing the temperatures of the two references, Mr. Shum could not reconcile the higher temperatures of reference 2 with the stated conservatism of reference 1.

We have performed a detailed review of the calculations supporting the data supplied in the two references. The calculation supporting the revised response (reference 1) accounts for the heating and cooling over time of the rooms surrounding the HPCI and RCIC rooms. The calculation used as the basis for the original response (reference 2) modeled only the HPCI and RCIC rooms themselves and, for simplicity assumed constant temperatures in the surrounding rooms. Allowing the surrounding room temperatures to fluctuate results in lower HPCI and RCIC room temperatures (reference 1), even though more conservative inputs (e.g. concrete heat transfer coefficient) were used.

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1. The first part of the report is devoted to a general survey of the situation in the field of international law. It is a very interesting and comprehensive survey, which covers the whole range of international law, from the law of nations to the law of the sea. The author's approach is very clear and logical, and the report is well organized and easy to read.

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As for the temperatures originally submitted (reference 2), review of the backup calculation for this submittal reveals that the actual numbers are 127°F for the HPCI room and 116°F for the RCIC room. Based on this review, we believe that the original numbers were mis-reported.

I trust this brief explanation will satisfy all concerns. Our detailed review included all information submitted via both references with no additional discrepancies identified. Questions regarding this submittal should be directed to Mr. A.K. Maron at (215) 774-7852.

Very truly yours,



H. W. Keiser

cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. G. S. Barber, NRC Sr. Resident Inspector  
Mr. J. J. Raleigh, NRC Project Manager

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