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 BYRAM, R.G.                      Pennsylvania Power & Light Co.  
 RECIP. NAME                      RECIPIENT AFFILIATION  
 MILLER, C.L.                      Project Directorate I-2

SUBJECT: Provides response to NRC request for addl info re power update containment response evaluation.

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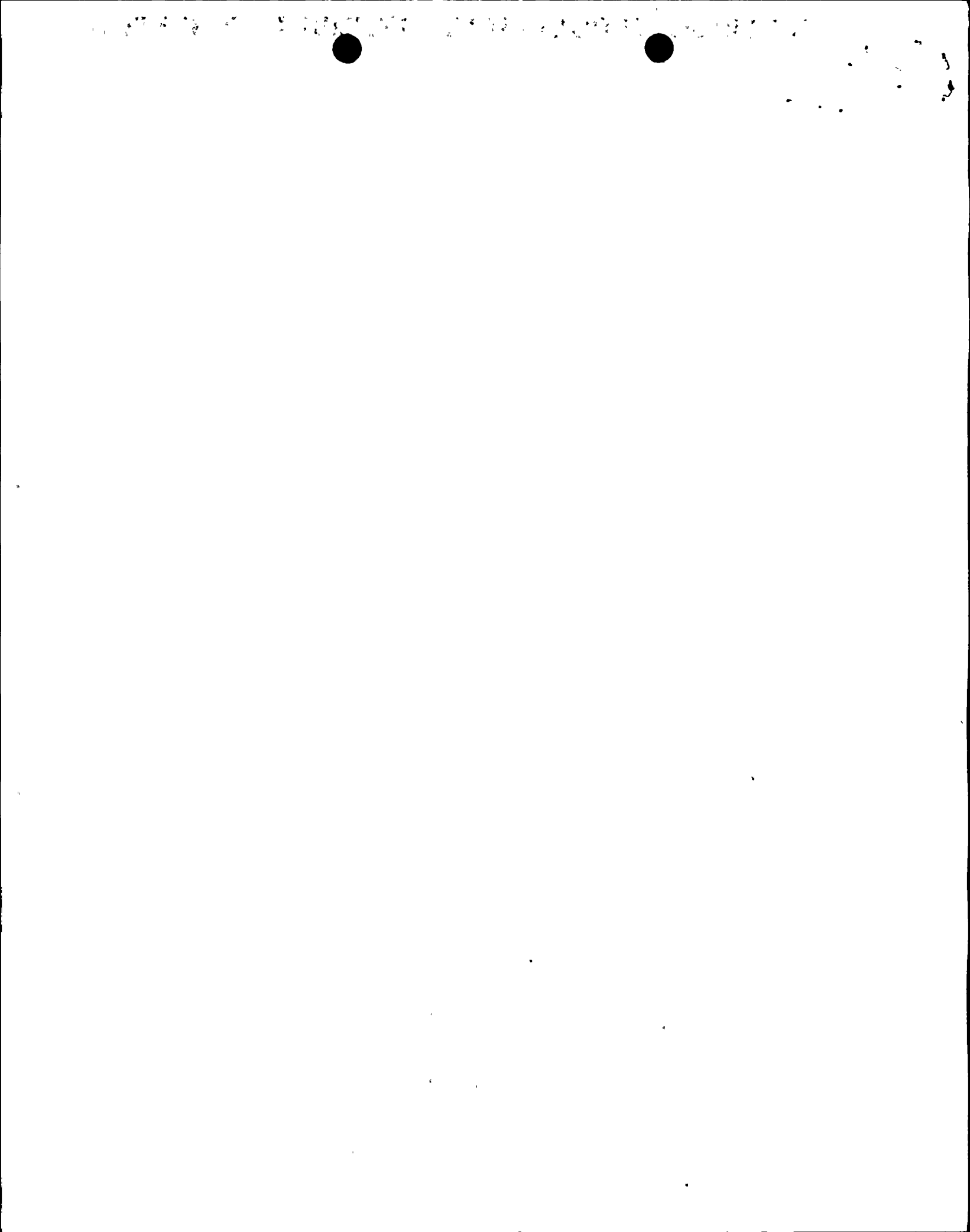
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Robert G. Byram  
Senior Vice President-Nuclear  
215/774-7502

AUG 12 1993

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  
RESPONSE TO NRC REQUEST FOR ADDITIONAL  
INFORMATION REGARDING THE POWER UPRATE  
CONTAINMENT RESPONSE EVALUATION  
PLA-4014**

**FILES A17-2/R41-2/P88-1**

Docket Nos. 50-387  
and 50-388

Reference: PLA-3788, H.W. Keiser to C.L. Miller, "Submittal of Licensing Topical Report on Power Uprate with Increased Core Flow," dated June 15, 1992.

Dear Mr. Miller:

This letter is in response to an NRC question regarding the power uprate LOCA short-term containment response evaluation, performed for Susquehanna Units 1 and 2. Specifically, a clarification was requested to explain the difference in peak drywell pressures (Table 4-1 in the referenced Licensing Topical Report) with respect to the Original FSAR case and the Updated Methods FSAR case.

The Updated Methods FSAR case shows an increase of 2.9 psi in peak drywell pressure from the Original FSAR case. This increase is due to the different assumptions used in performing the two evaluations.

The Original FSAR case (first column) was evaluated using the following assumptions:

1. The Moody slip flow model with extrapolated subcooled flow values was used for break flow calculations.
2. A 4.0 second MSIV closure time (valve stroke time) was used.

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The Updated Methods FSAR case, on the other hand, was evaluated using the following different assumptions:

1. The Moody slip flow model with extended subcooled flow values was used for break flow calculations.
2. A 2.0 second MSIV closure time (valve stroke time) was used.

The shortest MSIV closure time was used to incorporate the maximum conservatism. The Moody slip flow model with extended subcooled flow values is a more accurate model of critical flow for subcooled conditions (i.e., where the stagnation conditions are subcooled) than the model with extrapolated subcooled values.

Utilizing these different values resulted in the increase in the calculated peak drywell pressure. We trust this explanation will satisfactorily address the requested clarification. Additional questions regarding this response along with the referenced submittal should be directed to Mr. R.R. Sgarro at (215) 774-7914.

Very truly yours,

  
R. G. Byram

cc: NRC Document Control Desk (original)  
NRC Region I  
Mr. G. S. Barber, NRC Sr. Resident Inspector - SSES  
Mr. R. J. Clark, NRC Sr. Project Manager - Rockville



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