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SCHWENCER,A. Licensing Branch 2

SUBJECT: Advises of slight increase in peak drywell pressure during DBA due to capping of five vacuum breaker downcomers & revised load line limit analysis.Type A,B & C leak rate tests will be effected.

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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
TYPE A, B AND C INTEGRATED AND LOCAL
LEAK RATE TESTING
ER 100450 FILE 172-M-149
PLA-1016

DOCKET NOS. 50-387
50-388

Dear Mr. Schwencer:

Recently, we completed the capping of the five (5) vacuum breaker downcomers. As a result, there are now 82 downcomers instead of 87 downcomers available for steam flow into the supperssion pool. This change, coupled with a revised Load Line Limit Analysis results in a slight increase in the peak drywell pressure during a DBA. Our preliminary estimates indicate an increase of approximately 3 psig. This would increase the present peak drywell pressure of Pa = 43.8 psig to approximately 47.0 psig. This compares with a containment design pressure of 53 psig. Those are preliminary conservative estimates which will be confirmed in the near future. We plan to revise the FSAR and DAR to reflect these revised transient curves when the analysis is finalized.

Although this increase in pressure does not compromise the containment design, it will effect the Type A, B and C leak rate tests, since these test procedures were prepared assuming Pa = 43.8 psig. Per our discussions with the NRC staff, the effects on these tests will be accounted for as follows:

- The Type B and C penetrations which have already been leak tested based on Pa = 43.8 psig will not be retested for the higher peak containment pressure. For these penetrations, the measured leak rate based on the lower value of 43.8 psig will be increased to reflect the higher peak containment pressure. The measured leak rate will be multiplied by the square root of the ratio of the revised peak pressure to the original peak pressure.

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The revised peak pressure to be used for this increase will be 43.8 psig (original peak pressure) + 3 psig (expected increase) + 1 psig (conservatism) which is approximately equal to 48 psig. Thus the multiplier becomes $\sqrt[3]{48/43.8} = 1.047$. The revised peak containmnent pressure of 48 psig will be verified as conservative when the revised transient curves are available.

- The Type A Integrated Leak Rate Test will be performed at a revised pressure of 48. psig.

If you have any questions, please contact us.

Very truly yours,

R J Shovlin for

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

CTC/mjm

cc: R. Perch NRC