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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards results of vacuum breaker performance ^{see RFS (2 Bks)} evaluation providing justification for plant operation beyond Mode 3. Draft NEDE-22178-P, "Mark II Containment Drywell-to-Wetwell Vacuum Breaker Models," withheld (ref 10CFR2.790).

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AUG 13 1982

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

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSE CONDITION #16 - WETWELL
TO DRYWELL VACUUM BREAKERS (VB)
ER 100450 FILE 171-M-149
PLA-1232

Docket Nos. 50-387
50-388

Dear Mr. Schwencer:

As required by License Condition #16, please find attached the results of the vacuum breaker performance evaluation which provides the information to justify plant operation beyond Mode 3 with the partially modified VB's. The attached provides the following:

Attachment 1: The VB forcing function during pool swell based on the 5.5 PSID uplift differential pressure specified by GE.

Attachment 2: GE Report No. NEDE-22178-P entitled "Mark II Containment Drywell-to-Wetwell Vacuum Breaker Models." Due to schedule restraints, the attached report represents the final draft report. The technical content of the draft and final report will be identical, and will only differ in that the final report will be the printed and bound version. Section 3.0 gives the description and verification of the VB dynamic model used to predict the VB impact velocities.

Attachment 3: CDI Report No. 82-4 entitled "Mark II Primary Containment Vacuum Relief Valve Test Program - Phase IV." This report documents the impact velocities used in the Phase IV tests based on the single bar linkage and the VB response model described in Attachment 2, and presents the results of the Phase IV tests. These tests indicate that the partially modified SSES VB is functionally qualified to the pool swell actuation load.

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Mr. A. Schwencer

The above documents the information requested by your staff during the July 15, 1982 Mark II/NRC meeting.

Very truly yours,



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

PAF/mks

cc: Farouk Eltawalia - NRC (w/a)

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