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May 14, 1985

Mr. John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Docket Nos. 50-277
50-278

Subject: Peach Bottom Atomic Power Station, Units 2 & 3
Wetwell-to-Drywell Vacuum Breakers
Design and Analysis Clarification

References:
a) Letter - J. F. Stolz/NRC to E. G. Bauer, Jr./PECo, dated 4/22/85
b) Continuum Dynamics, Inc. Report No. 84-3, Rev. 0, dated February 1984 - Mark I Wetwell to Drywell Vacuum Breaker Load Methodology
c) Continuum Dynamics, Inc. - Technical Note No. 84-11, dated October, 1984 - Response to NRC Request for Additional Information on Mark I Containment Program Wetwell to Drywell Vacuum Breaker Load Methodology, Report No. 84-3, rev. 0
d) Continuum Dynamics, Inc. - Technical Note No. 84-14, dated January 1985 - Mark I Wetwell to Drywell Differential Pressure Load and Vacuum Breaker Response for the Peach Bottom Atomic Power Station - Units 2 & 3

Dear Mr. Stolz:

In response to your letter dated 4/22/85 (ref. a) requesting additional information concerning the predicted dynamics of Peach Bottom wetwell to drywell vacuum breakers, we offer the following:

Question 1

- Is the chugging source rate used in the Peach Bottom evaluation the same as the one developed in CDI Report #84-3?

Answer

- Yes. The methodology followed in CDI Report No. 84-3 (ref. b) is identical to the methodology used in the Peach Bottom evaluation (ref. d) and detailed in response to question 5 from the NRC (ref. c).

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Question 2

- Did the Peach Bottom calculation apply the 1.07 load factor to account for the uncertainty in calculating the underpressure?

Answer

- Yes. The load factor used to assure conservative prediction of the underpressure, and detailed in response to question 2 from the NRC (ref. c), was applied to the Peach Bottom evaluation (ref. d).

Question 3

- Do the Peach Bottom calculations use the drywell model which would result in the most conservative prediction?

Answer

- Yes. Drywell modeling was examined in response to question 6 from the NRC (ref. c). For the Peach Bottom evaluation (ref. d), the acoustic volume model results in a more conservative forcing function and was therefore used.

A copy of reference (d) is attached. We understand that copies of references (b) and (c) are already available to you.

Please contact us if you need any further information.

Sincerely,

John S. Kemper

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