



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 25, 1995

Mr. George A. Hunger, Jr.
Director-Licensing, MC 62A-1
PECO Energy Company
Nuclear Group Headquarters
Correspondence Control Desk
P.O. Box No. 195
Wayne, PA 19087-0195

SUBJECT: STAFF EVALUATION OF PEACH BOTTOM ATOMIC POWER STATION, UNIT NOS. 2
AND 3, INDIVIDUAL PLANT EXAMINATION (TAC NOS. M74448 AND M74449)

Dear Mr. Hunger:

By letter dated August 26, 1992, Philadelphia Electric Company (PECO, now PECO Energy Company) submitted the Individual Plant Examination (IPE) for the Peach Bottom Atomic Power Station (PBAPS) Units 2 and 3 in response to Generic Letter (GL) 88-20, "Individual Plant Examination for Severe Accident Vulnerabilities," and Supplements 1, 2 and 3 thereto.

With the assistance of a contractor, the NRC staff has completed its review of the PBAPS Units 2 and 3 IPE. The evaluation package consists of (1) a staff evaluation (SE) (enclosed) and (2) a contractor technical evaluation report (TER) (attachment to the Enclosure). The PBAPS Units 2 and 3 IPE submittal review was based on a comparison between the results reported in the submittal and the results of the staff study documented in NUREG-1150. Based on this review, we conclude that the licensee has met the intent of GL 88-20.

In summary, the PBAPS IPE has estimated a core damage frequency (CDF) of $6E-6$ /reactor-year from internally initiated events, including a contribution of $1E-7$ /reactor-year from internal floods. Categorized by general accident class, loss of offsite power (LOSP) contributes 25 percent, station blackout 9 percent, anticipated transients without scram (ATWS) 26 percent, transients 27 percent, and loss of coolant accident (LOCA) 11 percent. Other general accident classes each contribute less than 5 percent of the total CDF.

To screen for plant-specific vulnerabilities, PECO defined vulnerability as any failure mode, single failure, or combination of a small number of failures not used to create a support state (such as diesel failure in the LOSP event tree) that disproportionately contributes to the overall CDF. The submittal

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states that even though no quantitative limits were placed on the contribution to CDF, a qualitative evaluation identified no vulnerabilities.

If you have any comments regarding the staff's review, please do not hesitate to contact me at (301) 415-1428.

Sincerely,

/s/

Joseph W. Shea, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-277/278

Enclosure: Staff IPE Evaluation

cc w/encl: See next page

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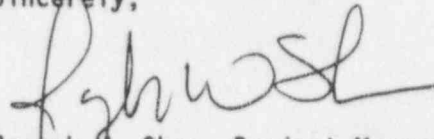
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Mr. George A. Hunger, Jr.
PECO Energy Company

Peach Bottom Atomic Power Station,
Units 2 and 3

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