

PECO Energy Company  
Nuclear Group Headquarters  
965 Chesterbrook Boulevard  
Wayne, PA 19087-5691

June 6, 1994

Docket Nos. 50-277  
50-278  
License Nos. DPR-44  
DPR-56

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: Peach Bottom Atomic Power Station, Units 2 and 3  
Response to Request for Additional Information  
Regarding Power Rerate Program (RAI-3)

Dear Sir:

Attached is our response to your request for additional information discussed in our telephone conversation on May 10, 1994, regarding our planned implementation of the Power Rerate Program at Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3. The Power Rerate Program was the subject of Technical Specification Change Request (TSCR) 93-12 which was forwarded to you by letter dated June 23, 1993.

If you have any questions, please contact us.

Very truly yours,

*G. A. Hunger, Jr.*  
G. A. Hunger, Jr., Director  
Licensing

cc: T. T. Martin, Administrator, Region I, USNRC  
W. L. Schmidt, USNRC Senior Resident Inspector, PBAPS  
R. R. Janati, Commonwealth of Pennsylvania

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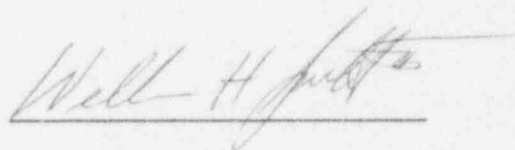
COMMONWEALTH OF PENNSYLVANIA :

: ss.

COUNTY OF CHESTER :

W. H. Smith, III, being first duly sworn, deposes and says:

That he is Vice President of PECO Energy Company; the Applicant herein; that he has read the enclosed response to the NRC request for additional information, concerning Technical Specification Change Request (Number 93-12) for Peach Bottom Facility Operating Licenses DPR-44 and DPR-56, and knows the contents thereof; and that the statements and matters set forth therein are true and correct to the best of his knowledge, information and belief.



Vice President

Subscribed and sworn to

before me this 6<sup>th</sup> day

of June 1994.



Notary Public

Notarial Seal  
Erica A. Sartori, Notary Public  
Truxville Twp. Chester County  
Commission Expires July 10, 1995

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION (RAI-3)  
Peach Bottom Atomic Power Station, Units 2 and 3

Question:

1. Table 10.5.2 ("Summary of Cooling System Analysis Results") of the Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3 Updated Final Safety Analysis Report (UFSAR) provides pool outlet temperatures.
  - a. Provide a revised set of pool outlet temperatures, based on the use of rerated fuel, during a normal refueling.
  - b. Provide a revised set of pool outlet temperatures, based on the use of rerated fuel, for a full core off-load.
  - c. Define pool outlet temperature.

Answer:

UFSAR Table 10.5.2 will be revised to reflect the new power rerate fuel pool cooling system parameters. The limiting temperatures provided in Item 3 of Table 10.5.2 are based on a spent fuel pool with capacity to accept one full core off-load after the refueling outage. The limiting temperatures provided in Item 4 are based on a full fuel pool after the full core off-load. The revision to UFSAR Table 10.5.2 will include the following information:

- a. Bulk pool temperature for normal refueling:

One heat exchanger in service	185.7° F
Two heat exchangers in service	137.8° F
Three heat exchangers in service	121.9° F
- b. Bulk pool temperature for a full core off-load:

Two heat exchangers in service	178.0° F
Three heat exchangers in service	148.7° F
- c. "Pool outlet" temperature refers to bulk pool temperature. The revision to UFSAR Table 10.5.2 will include this clarification.

Question:

2. Discuss the operation of the spent fuel pool during normal operation and during refueling.

Answer:

During non-outage conditions, one fuel pool cooling pump and one fuel pool cooling heat exchanger are usually in service. Bulk pool temperature is typically below 85° F.

During outages, two pumps and two heat exchangers are usually in service for a fuel shuffle, and three pumps and three heat exchangers are in service for a full off-load. Two pumps and two heat exchangers are usually in service for one month post-outage. Bulk pool temperature typically remains below 110° F during the outage and one month post-outage.

Question:

3. What administrative temperature limits are maintained for spent fuel pool operation?

Answer:

During outages at Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3, Surveillance Tests ST-0-098-02X, Y, and Z require shiftly monitoring of the bulk pool temperature. During startup and normal operations at PBAPS, Units 2 and 3, Surveillance Test ST-0-098-01X requires daily monitoring of the bulk pool temperature. If temperature cannot be maintained below 130° F, action is required which could include initiating the Residual Heat Removal (RHR) System for cooling the spent fuel pool if the fuel pool cooling system is unable to maintain the required temperature limits.