

September 5, 1985

Dockets Nos. 50-277
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Mr. Edward G. Bauer, Jr.
Vice President and General Counsel
Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

Dear Mr. Bauer:

SUBJECT: REVIEW OF PHILADELPHIA ELECTRIC COMPANY'S REQUEST FOR APPROVAL OF
NEW SPENT FUEL STORAGE RACKS - REQUEST FOR ADDITIONAL INFORMATION

On June 13, 1985, the Philadelphia Electric Company (PECO) submitted its request for approval of new spent fuel storage racks. By letter dated August 1, 1985, PECO provided the NRC staff with a revised submittal which contained your complete analyses and Safety Evaluation in support of its request.

In our review of your submittal, we have come upon certain areas which require additional information or clarifications before we can complete our review and evaluation.

Please review the enclosed request for additional information and provide your responses no later than October 7, 1985 so that we may continue our review toward your requested completion date of January 1986.

The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

"ORIGINAL SIGNED BY
JOHN F. STOLZ"

John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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Peach Bottom Atomic Power Station,
Units 2 and 3

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PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3

REQUEST FOR ADDITIONAL INFORMATION

PERTAINING TO HIGH DENSITY SPENT FUEL STORAGE RACKS

- 231.1 The submittal lacks sufficient information to permit a complete review and evaluation of the k-effective value of the racks. Please provide a drawing (or other representation) of the racks which includes dimensions, materials, and other pertinent information sufficient to permit an independent evaluation of the rack reactivity.
- 231.2 The present Peach Bottom Technical Specifications limit storage in the spent fuel racks to assemblies having less than 17.3 grams/cm of U-235 in their dominant (most reactive) portions. Please confirm that this value is consistent with 3.5 percent enrichment or alter the Specification to conform to the correct value.
- 450.1 Discuss the anticipate burnup of the highest burnup assembly to be stored in the new high-density spent fuel storage racks.
- 450.2 Please provide a discussion of the apparent discrepancy between
(5.3.1.1) Technical Specification 4.10.C which indicates that the spent fuel pool water depth shall provide at least an 8½ ft. water cover over the stored spent fuel and the staff's assumption of a DF of 100, corresponding to a 23 ft. water cover, in its refueling accident evaluation in its August 11, 1972 SER. Provide the actual present water depth over the spent fuel.
- 450.3 Discuss the anticipated variations in water level of the spent fuel
(5.3.1.1) pool(s) during and following the reracking procedures.
- 450.4 Discuss the variation of spent fuel pool water volatile iodine
(5.3.1.1) decontamination factor (DF) a) during and b) after completion of the reracking procedures. Provide the basis for this assessment, justifying the DF's selected.
- 450.5 Discuss the effect of the variation of pool water DF on the
(5.3.1.1) consequences of fuel handling accidents previously evaluated in the PBAPS updated FSAR.
- 450.6 Discuss the extent of any present spent fuel pool water loss
(5.3.1.1) through leakage. Provide information on any anticipated changes in leakage due to the presence of the new high-density racks.