

June 22, 1993

Mr. George A. Hunger, Jr.
Director-Licensing, MC 52A-5
Philadelphia Electric Company
Nuclear Group Headquarters
Correspondence Control Desk
P.O. Box No. 195
Wayne, Pennsylvania 19087-0195

Dear Mr. Hunger:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON SAFER/GESTR LOSS OF COOLANT
ACCIDENT METHODOLOGY, PEACH BOTTOM ATOMIC POWER STATION, UNITS 2
AND 3, (TAC NOS. M86132 AND M86133)

By letter dated April 7, 1993, Philadelphia Electric Company (PECo) submitted General Electric (GE) proprietary report NEDC-32163P, "Peach Bottom Atomic Power Station, Units 2 and 3, SAFER/GESTR-LOCA Loss-of-Coolant Accident Analysis," dated January 1993. The GE report is cited as a reference in PECO's April 1, 1993 application to revise the Peach Bottom Technical Specification. In the April 1, 1993 submittal, PECO proposed changes to implement an expanded operating domain for Peach Bottom Atomic Power Station.

The NRC staff has made a preliminary review of NEDC-32163P and determined that it does not appear to meet the requirements for applying the generic SAFER/GESTR methodology on a plant-specific basis. The staff's concerns are detailed in the enclosed request for additional information. PECO is requested to respond to the enclosed RAI within 30 days from receipt of this letter. This requirement affects 9 or fewer respondents and therefore, is not subject to Office of Management and Budget review under P.L. 96-511.

Sincerely,

/s/

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

Enclosure:

Request for Additional Information

cc w/enclosure:
See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

June 22, 1993

Docket Nos. 50-277
and 50-278

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Sincerely,

A handwritten signature in dark ink, appearing to read "J. W. Shea", written over a horizontal line.

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

Enclosure:
Request for Additional Information

cc w/enclosure:
See next page

REQUEST FOR ADDITIONAL INFORMATIONPEACH BOTTOM ATOMIC POWER STATION (PBAPS), UNITS 2 AND 3SAFER/GESTR-LOCA METHODOLOGY

1. Results of break calculations presented as a plot of PCT vs. break size in Figure 5-1 of NEDC-32163P, "Peach Bottom Atomic Power Station, Units 2 and 3, SAFER/GESTR-LOCA Loss-of-Coolant Analysis," are noticeably different from the generic BWR 4 break spectrum (Figure 3.3 of NEDE-23785-1-PA, "The GESTR-LOCA and SAFER Models for the Evaluation of the Loss-of-Coolant Accident - Volume III"). The difference lies in the PCT results for small break LOCAs.

The nominally determined PCT versus break size curve for PBAPS indicates that the small break LOCA has a greater PCT than does the design basis accident (1051°F vs 1024°F). The justification presented for the PBAPS difference does not obviate the requirement set out in the original approval for SAFER/GESTR (TER dated June 1, 1984).

Approval for the use of the SAFER/GESTR method was based on conditions including confirmation that the plant-specific PCT calculations match the trend of the generic PCT vs break size curves. This is necessary to assure that the SAFER/GESTR model is applied in a manner that maintains the validity of the statistical model for plant-specific applications. The SAFER/GESTR PCT calculation results using "relaxed" ECCS parameters, as presented in NEDC-32163P, do not meet the requirements for the application of the SAFER/GESTR LOCA method.

Please provide additional or revised information concerning application of the SAFER/GESTR methodology to the Peach Bottom facility to address the above concerns.

Mr. George A. Hunger, Jr.
Philadelphia Electric Company

Peach Bottom Atomic Power Station,
Units 2 and 3

cc:

J. W. Durham, Sr., Esquire
Sr. V.P. & General Counsel
Philadelphia Electric Company
2301 Market Street, S26-1
Philadelphia, Pennsylvania 19101

Philadelphia Electric Company
ATTN: Mr. D. B. Miller, Vice President
Peach Bottom Atomic Power Station
Route 1, Box 208
Delta, Pennsylvania 17314

Philadelphia Electric Company
ATTN: Regulatory Engineer, A1-2S
Peach Bottom Atomic Power Station
Route 1, Box 208
Delta, Pennsylvania 17314

Resident Inspector
U.S. Nuclear Regulatory Commission
Peach Bottom Atomic Power Station
P.O. Box 399
Delta, Pennsylvania 17314

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Mr. Roland Fletcher
Department of Environment
201 West Preston Street
Baltimore, Maryland 21201

Carl D. Schaefer
External Operations - Nuclear
Delmarva Power & Light Company
P.O. Box 231
Wilmington, DE 19899

Mr. William P. Dornsife, Director
Bureau of Radiation Protection
Pennsylvania Department of
Environmental Resources
P. O. Box 2063
Harrisburg, Pennsylvania 17120

Board of Supervisors
Peach Bottom Township
R. D. #1
Delta, Pennsylvania 17314

Public Service Commission of Maryland
Engineering Division
ATTN: Chief Engineer
231 E. Baltimore Street
Baltimore, MD 21202-3486

Mr. Richard McLean
Power Plant and Environmental
Review Division
Department of Natural Resources
B-3, Tawes States Office Building
Annapolis, Maryland 21401