

May 14, 1984

DLR 016

Dockets Nos. 50-277
and 50-278

Distribution:
Docket File RIngram
Reading File GGears
Gray File
NRC PDR
L PDR
DEisenhut
OELD
NSIC
ACRS 10
EJordan
JNGrace

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

Dear Mr. Bauer:

SUBJECT: EQUIPMENT QUALIFICATION OF EQUIPMENT IMPORTANT TO SAFETY-
REQUEST FOR ADDITIONAL INFORMATION

RE: Peach Bottom Atomic Power Station, Units 2 and 3

We have reviewed the environmental qualification of electrical equipment important to safety for Peach Bottom 2 and 3. Our review has produced the need to docket the remaining outstanding justifications for continued operation (JCOs) as well as a request for additional information.

Therefore, you are requested to submit all applicable JCOs that are currently being relied upon and to certify the following for each JCO associated with equipment that is assumed to fail:

No significant degradation of any safety function or misleading information to the operator as a result of failure of equipment under the accident environment resulting from a design basis event will occur.

We request that you also provide a response to the attached request for additional information concerning equipment identified within the scope of 10 CFR 50.49(b)(2).

I request that this information be provided within 30 days of your receipt of this letter. This request for information was previously approved by the Office of Management and Budget under clearance number 3150-0011 which expires April 30, 1985.

Sincerely,

John F. Stolz
John F. Stolz, Chief
Operating Reactors Branch No. 4
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page
ORB#4:DL
GGears,ef
05/10/84

JFStolz
ORB#4:DL
JFStolz
05/11/84

LaGrange/Shemanski
EOB RGL P.S.
LaGrange/Shemanski
05/10/84

Karsch/Zwolinski
ORAB
Karsch/Zwolinski
05/14/84

8405310411 840514
PDR ADOCK 05000277
P PDR

Philadelphia Electric Company

cc w/enclosure(s):

Eugene J. Bradley
Philadelphia Electric Company
Assistant General Counsel
2301 Market Street
Philadelphia, Pennsylvania 19101

Troy B. Conner, Jr.
1747 Pennsylvania Avenue, N.W.
Washington, D. C. 20006

Thomas A. Deming, Esq.
Assistant Attorney General
Department of Natural Resources
Annapolis, Maryland 21401

Philadelphia Electric Company
ATTN: Mr. R. Fleishmann
Peach Bottom Atomic
Power Station
Delta, Pennsylvania 17314

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

Allen R. Blough
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Peach Bottom Atomic Power Station
P. O. Box 399
Delta, Pennsylvania 17314

Mr. Thomas E. Murley, Regional Administrator
U. S. Nuclear Regulatory Commission, Region I
Office of Inspection and Enforcement
631 Park Avenue
King of Prussia, Pennsylvania 19406

Regional Radiation Representative
EPA Region III
Curtis Building (Sixth Floor)
6th and Walnut Streets
Philadelphia, Pennsylvania 19106

M. J. Cooney, Superintendent
Generation Division - Nuclear
Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

Mr. R. A. Heiss, Coordinator
Pennsylvania State Clearinghouse
Governor's Office of State Planning
and Development
P. O. Box 1323
Harrisburg, Pennsylvania 17120

Thomas M. Gerusky, Director
Bureau of Radiation Protection
Pennsylvania Department of
Environmental Resources
P. O. Box 2063
Harrisburg, Pennsylvania 17120

REQUEST FOR ADDITIONAL INFORMATION
ENVIRONMENTAL QUALIFICATION OF EQUIPMENT IMPORTANT TO SAFETY

PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3
DOCKETS NOS. 50-277 AND 50-278

- A. The license should certify that in performing its review of the methodology to identify equipment within the scope of 10 CFR 50.49(b)(2) that the following steps have been addressed:
1. A list was generated of safety-related electric equipment as defined in paragraph (b)(1) of 10 CFR 50.49 required to remain functional during or following design-basis Loss of Coolant Accident (LOCA) or High Energy Line Break (HELB) Accidents. The LOCA/HELB accidents are the only design-basis accidents which result in significantly adverse environments to electrical equipment which is required for safe shutdown or accident mitigation. The list was based on reviews of the Final Safety Analysis Report (FSAR), Technical Specifications, Emergency Operating Procedures, Piping and Instrumentation Diagrams (P&IDs), and electrical distribution diagrams;
 2. The elementary wiring diagrams of the safety-related electrical equipment identified in Step 1 were reviewed to identify any auxiliary devices electrically connected directly into the control or power circuitry of the safety-related equipment (e.g., automatic trips) whose failure due to postulated environmental conditions could prevent required operation of the safety-related equipment and;
 3. The operation of the safety-related systems and equipment were reviewed to identify any directly mechanically connected auxiliary systems with electrical components which are necessary for the required operation of the safety-related equipment (e.g., cooling water or lubricating systems). This involved the review of P&IDs, component technical manuals, and/or systems descriptions in the FSAR.
 4. Nonsafety-related electrical circuits indirectly associated with the electrical equipment identified in Step 1 by common power supply or physical proximity were considered by a review of the electrical design including the use of applicable industry standards (e.g., IEEE, NEMA, ANSI, UL, and NEC) and the use of properly coordinated protective relays, circuit breakers, and fuses for electrical fault protection.
- B. Provide certification that all design basis events which could potentially result in a harsh environment, including flooding outside containment, were addressed in identifying safety-related electrical equipment within the scope of 10 CFR 50.49(b)(1).
- C. Certify that the electrical equipment within the scope of 10 CFR 50.49(b)(3) is all R.G. 1.97 Category 1 and 2 equipment or that justification has been provided for any such equipment not included in the environmental qualification program.