



# PECO NUCLEAR

A Unit of PECO Energy

10 CFR 50.54(f)

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

March 24, 1997

Docket Nos. 50-277  
50-278  
50-352  
50-353

License Nos. DPR-44  
DPR 56  
NPF-39  
NPF-85

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

Subject: Peach Bottom Atomic Power Station, Units 2 and 3,  
Limerick Generating Station, Units 1 and 2,  
Request for Additional Information Regarding  
Generic Letter 92-08, "Thermo-Lag 330-1 Fire Barriers"

- References:
- 1) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated April 16, 1993 *Hann*
  - 2) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated December 29, 1993 *Hann*
  - 3) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated February 4, 1994 *Hann*
  - 4) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated December 19, 1994 *Hann*
  - 5) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated March 29, 1995 *Hann*
  - 6) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated August 2, 1995 *Hann*
  - 7) Letter from G. A. Hunger, Jr. to USNRC Document Control Desk dated May 2, 1996 *Hann*

Dear Sir:

The subject request for additional information (RAI) regarding Generic Letter (GL) 92-08, "Thermo-Lag 330-1 Fire Barriers," dated February 29, 1996, requested that PECO Energy Company (PECO Energy), respond within 60 days of the receipt of the letter with additional information regarding Thermo-Lag 330-1 fire barrier systems. PECO Energy had previously

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responded to the GL by references 1 through 6. PECO Energy responded to the February 29, 1996 RAI by letter dated May 2, 1996 (Reference 7), which provided general information regarding the methodology and calculations used to determine ampacity derating parameters for installed Thermo-Lag fire barriers at PBAPS and LGS. At the time of the May 2, 1996 response, PECO Energy was still evaluating the specific methodology and calculations to be used. The NRC has requested, via a phone call on March 7, 1997, an update to that response. More specific methodology and calculation information is now available.

This letter provides the requested additional information. In Attachment 1 to this letter, the NRC request is restated, followed by the PECO Energy response. Attachment 2 to this letter provides the details of the methodology and calculations.

If you have any questions, please do not hesitate to contact us.

Very truly yours,



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

Enclosures: Affidavit, Attachment 1, Attachment 2

cc: H. J. Miller, Administrator, Region I, USNRC  
W. L. Schmidt, USNRC Senior Resident Inspector, PBAPS  
N. S. Perry, USNRC Senior Resident Inspector, LGS

COMMONWEALTH OF PENNSYLVANIA :

: ss.

COUNTY OF CHESTER :

D. B. Fetters, being first duly sworn, deposes and says:

That he is Vice President of PECO Energy; the Applicant herein; that he has read the attached response to the NRC Request for Additional Information regarding Generic Letter 92-08 for Peach Bottom Atomic Power Station, Units 2 and 3, Facility Operating License Nos. DPR-44 and DPR-56, and Limerick Generating Station, Units 1 and 2, Facility Operating License Nos. NPF-39 and NPF-85, 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 25<sup>th</sup> day

of March 1997

Mary Lou Skrocki

Notary Public

Notary Seal  
Mary Lou Skrocki, Notary Public  
Tredyffrin Twp., Chester County  
My Commission Expires May 17, 1999  
Member, Pennsylvania Association of Notaries

ATTACHMENT 1

NRC QUESTION 1

Please submit any test procedures or alternatively, a description of the analytical methodology, including typical calculations which will be used to determine the ampacity derating parameters for the Thermo-Lag fire barriers that are installed at LGS and PBAPS.

PECO ENERGY RESPONSE TO QUESTION 1

Attachment 2 contains the details of the methodology and example calculations used to determine the ampacity derating parameters for the Thermo-Lag fire barriers that are installed at LGS and PBAPS.

NRC QUESTION 2

Provide the results of the ampacity derating evaluations at LGS and PBAPS, indicating excess margin available between load and derated ampacity for encapsulated cables.

PECO ENERGY RESPONSE TO QUESTION 2

The ampacity derating evaluations will be performed in conjunction with the Thermo-Lag assembly fire endurance qualification evaluations. This work is scheduled to be completed by December 1997 for PBAPS and LGS. Upon completion of these evaluations, the results will be provided to the NRC.

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ATTACHMENT 2

PECO Energy Company

Limerick Generating Station and Peach Bottom Atomic Power Station

Methodology for Determination of Thermo-Lag 330-1  
Raceway Enclosure Ampacity Derating Factors