

November 7, 1997

Mr. George A. Hunger, Jr.
Director-Licensing, MC 62A-1
PECO Energy Company
Nuclear Group Headquarters
Correspondence Control Desk
P.O. Box No. 195
Wayne, PA 19087-0195

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON JET PUMP RISER CRACKING, PEACH
BOTTOM ATOMIC POWER STATION, UNIT 3 (TAC NO. M99832)

Dear Mr. Hunger:

We developed the enclosed request for additional information (RAI) during our review of your jet pump weld indication 10 CFR 50.59 analysis transmitted to us in your October 30, 1997, letter.

Please provide your response to us within 15 days of the date of this letter. Please contact me at (301) 415-1423 if you have any questions.

Sincerely,

/s/

L. Mark Padovan, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-278

Enclosure: RAI

cc w/encl: See next page

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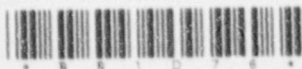
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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Director-Licensing, MC 62A-1
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Sincerely,

A handwritten signature in dark ink, appearing to read "L. Mark Padovan", is written over a horizontal line.

L. Mark Padovan, Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-278

Enclosure: RAI

cc w/encl: See next page

Mr. George A. Hunger, Jr.
PECO Energy Company

Peach Bottom Atomic Power Station,
Units 2 and 3

cc:

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Wayne, PA 19087-0195

PECO Energy Company
Plant Manager
Peach Bottom Atomic Power Station
1848 Lay Road
Delta, PA 17314

Request for Additional Information

Peach Bottom Atomic Power Station, Unit 3

Jet Pump Riser Weld Cracking

Please provide the following information:

To perform an adequate assessment of the jet pump cracking for Peach Bottom Unit 3, the staff needs the following information.

- (1) Provide the test data establishing the ΔK threshold. For each subgroup of the test data corresponding to a specific testing program, provide the associated ΔK and K values, and verify whether the test was conducted in the boiling water reactor environment (temperature, chemistry, etc.). Provide sample ΔK and K values for the longest crack found in the jet pump subjected to flow-induced vibrations under normal operating conditions, and justify the use of the ΔK threshold to the current crack growth evaluation.
- (2) Explain the simplified finite element model (FEM) which simulates the cracked jet pump. Also, provide the criteria that were used to establish the equivalence of the simplified model to the full FEM for the cracked jet pump. Confirm that the simplified model has considered the 13-inch long crack.
- (3) Provide information, preferably from test, regarding the relationship among the stresses used in your stress intensity factor calculations, jet pump flow rate, and the percent of rated power.