

PHILADELPHIA ELECTRIC COMPANY

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(215) 841-5001

June 20, 1984

Docket No. 50-278

Mr. Darrell G. Eisenhut, Director
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Repair to the Jet Pump
Instrumentation Penetrations

Dear Mr. Eisenhut:

This letter and the enclosed attachments provide information related to the repair of the Peach Bottom Atomic Power Station Unit 3 Reactor Pressure Vessel Jet Pump Instrument Nozzle Seals N8-A and N8-B, as discussed in a June 18, 1984, meeting with the NRC staff in Bethesda, Maryland.

Attachment A, "Ultrasonic Indications in the Jet Pump Instrumentation Penetrations", contains the findings of ultrasonic examinations performed on the Peach Bottom Unit 3 Reactor Pressure Vessel Jet Pump Instrument Nozzle Seals N8-A and N8-B. These examinations were performed on Peach Bottom Unit 3 following the discovery of indications in one of the Jet Pump Instrument Nozzle Seals in Unit 2.

Attachment B, "General Electric Company's Fracture Mechanics Evaluation and Overlay Weld Repair Design", describes the analysis and overlay designs for disposition of the welds with indications. The weld overlay design included within Attachment B was performed in accordance with the requirements described in Attachment 2 of Generic Letter 84-11.

In addition to the weld overlay repair, both welds will be instrumented with moisture sensing equipment prior to operation. These moisture devices are identical to the leak detection devices described in Attachment G, "Identification of

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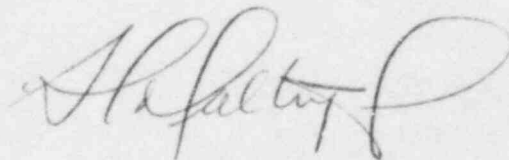
Placement of Leak Detection Devices and Monitoring of These Devices to Assure Safe Operation of Plant", to the October 19, 1983 Peach Bottom Unit 2 Supplemental Response to I.E. Bulletin No. 83-02, S. L. Daltroff (PECo) to Dr. T. E. Murley (NRC).

Attachment C, "Safety Evaluation for the Operation of Peach Bottom Atomic Power Station Unit 3", contains the safety evaluation for both Jet Pump Instrument Nozzle seals.

As discussed with the NRC staff, a detailed sketch of the Reactor Pressure Vessel Jet Pump Instrument Nozzle Seals N8-A and N8-B configurations and a report addressing the instrument tube spacer plate effect on residual stresses following the weld overlay will be submitted within 30 days.

Should you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,



Attachments

cc: A. R. Blough, Site Inspector
Dr. T. E. Murley, Administrator

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM UNIT #3

REPAIR TO THE JET PUMP INSTRUMENTATION
PENETRATIONS

June 1983

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