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NUCLEAR ENGINEERING & SERVICES DEPARTMENT

April 19, 1991

Docket No. 50-277
50-278

License No. DPR-44
DPR-56

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

SUBJECT: Peach Bottom Atomic Power Station, Units 2 and 3
Request for NRC Approval of Design and Repair Package
in Accordance with Generic Letter 88-01

REFERENCE: (1) Letter from G. J. Beck (PECo) to USNRC, dated March 21, 1991

(2) Letter from W. R. Butler (NRC) to G. J. Beck (PECo), dated March 28, 1991

Dear Sir:

In accordance with the "Staff Position on Reporting Requirements" provided in the Generic Letter 88-01 ("NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping"), Philadelphia Electric Company (PECo) requested NRC approval of a design and repair package associated with the repair of a crack-like indication in the weld of the Reactor Water Cleanup (RWCU) system piping for Peach Bottom Atomic Power Station (PBAPS) Unit 2 (Reference 1).

In your response to our letter (Reference 2), you granted permission for PBAPS Unit 2 to return to operation. Additionally, you stated that the "final design package in part should include as-built overlay thickness information and final shrinkage stress evaluations as appropriate."

In response to this request, attached are two reports which provide a finalized design and repair package (Attachment 1) and a closure package for the weld repair (Attachment 2). The as-built overlay thickness information is contained in Attachment 2. With regards to the final shrinkage stress evaluations, an engineering evaluation has determined that the sum of the maximum stresses due to the final weld shrinkage and the maximum existing

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analyzed stresses is 5950 psi, which remains well below Code allowed limit.

Also requested was "information on any planned mitigation or replacement of the RWCU piping susceptible to IGSCC." Susceptible welds in the safety class portion of the RWCU system are currently being reviewed and evaluated for application of mitigation techniques. Specific plans for mitigation activities, pipe replacement, or continued examination per Generic Letter 88-01 for all susceptible RWCU piping will be formulated following re-examination of the repaired weld (12-I-1D) and examination of a sample of the susceptible welds located in the non-safety portion of RWCU system. These examinations are planned for the next refueling outage. Similar mitigation activities are being considered for Unit 3.

In the Reference 1 letter, we stated that a final package containing all necessary information concerning completion of the weld repair would be transmitted by April 5, 1991. Due to outage related delays, the weld repair did not occur until April 7, 1991 which resulted in delay of the final submittal.

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

Very truly yours,

G. J. Beck, Manager
Licensing Section
Nuclear Engineering & Services

cc: T. T. Martin, Administrator, Region I, USNRC
J. J. Lyash, USNRC Senior Resident Inspector, PB

ATTACHMENT 1