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PHILADELPHIA ELECTRIC COMPANY

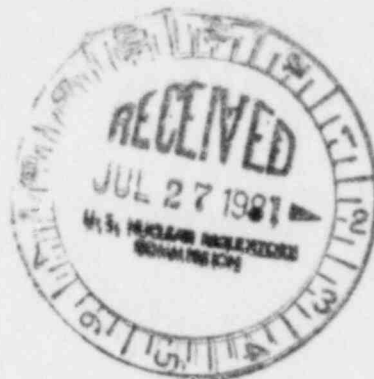
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JOSEPH W. GALLAGHER
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July 22, 1981

Docket Nos. 50-277
50-278

Mr. John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
US Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Stolz:

Your letter of June 19, 1981, requested additional information with regard to our proposed degraded grid voltage protection for Peach Bottom Atomic Power Station Units 2 and 3. The information requested in your letter and our response are listed sequentially below:

NRC REQUEST

REFERENCES: (1) NRC Letter to all power reactor licenses, dated June 2, 1977

Reference (1), Enclosure 1, page 2, Position 1,c,(1) requests that the "...time delay, including margin, shall not exceed the maximum time delay that is assumed in the FSAR accident analyses..." The degraded voltage logic scheme for Peach Bottom Units 2 and 3 transfers the Class 1E buses to a second off-site source should the first off-site source be degraded. The licensees should show that for all possible voltage levels and logic schemes, the time delay would not exceed or add to the time assumed in the FSAR accident analyses due to insufficient voltage for Class 1E equipment to start or operate. Since it appears, the proposed 2nd level undervoltage protection logic does not

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meet this requirement, enclosed is a recently revised Power Systems Branch Technical Position (PSB 1) which outlines an alternate approach acceptable to the NRC.

Response

We propose to meet the alternate approach detailed in your Power Systems Branch Technical Position (PSB 1) Part 1, b, (1) by adding a second TR electronic timing relay to the output of our proposed second level undervoltage logic scheme. The output of the relay will initiate an alarm in the control room and set-up a permissive circuit where the occurrence of a subsequent accident signal will separate the emergency buses from the offsite power system being used. The timing relay will have a time delay of six seconds, which will prevent separation of the emergency buses from the offsite source for motor starting transients.

If you have any questions or require additional information, please don't hesitate to call.

Very truly yours,

JW Gallagher