

BEFORE THE

UNITED STATES NUCLEAR REGULATORY COMMISSION

In the Matter of

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:

Docket No. 50-277
50-278

PHILADELPHIA ELECTRIC COMPANY

APPLICATION FOR AMENDMENT
OF
FACILITY OPERATING LICENSES
DPR-44 & DPR-56

Edward G. Bauer, Jr.
Eugene J. Bradley

2301 Market Street
Philadelphia, Pennsylvania 19101

Attorneys for
Philadelphia Electric Company

B607100080 860630
PDR ADOCK 05000277
P PDR

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Philadelphia Electric Company, Licensee under Facility Operating Licenses DPR-44 and DPR-56 for Peach Bottom Units 2 and 3, respectively, hereby requests that the Technical Specifications contained in Appendix A of the Operating License be amended as indicated by a vertical bar in the margin of attached page 36a. The proposed amendment would add a surveillance requirement to test the time delay feature of the undervoltage protective device for the Reactor Protection System (RPS) alternate power supply.

A time delay has been incorporated into the design of this protective device to prevent unnecessary tripping of the RPS alternate power supply due to momentary voltage fluctuations on the 4 KV bus. This time delay is needed because of voltage fluctuations experience at the Peach Bottom Atomic Power Station when large motors are started.

Technical Specification 4.1.D.2 requires a calibration check of the trip setpoint for the undervoltage device. The time delay feature for this device is not identified in the Technical Specifications. The NRC staff, in an April 15, 1985 telephone conversation regarding this matter, requested that the surveillance requirement of the Technical Specifications specify the appropriate testing for the time delay features. This Amendment Application responds to that request.

Safety Analysis

The alternate power source for the Reactor Protection System (RPS) is supplied from a 4 KV safeguard emergency bus. This bus is fed from an auxiliary 13.2 to 4.16 KV transformer. Both the 13.2 and 4.16 KV buses supply large motors, such as Residual Heat Removal pumps, Core Spray pumps and Condensate pumps. The starting current for these motors has caused emergency bus voltage transients. To minimize the effect of these voltage transients, a four-second time delay relay is used on the undervoltage isolation relay. The delay provides sufficient time for the bus voltage to return to normal after a

large motor start and prevents unnecessary RPS isolation or half-scam signals.

The use of the 4 second time delay for undervoltage tripping will not have any adverse effect on components of the RPS including the scram solenoid valves. The lowest voltage expected at the scram pilot valve solenoids during a transient is calculated to be greater than 95 volts, which is the minimum manufacturer recommended transient voltage, as compared to a normal design voltage of 115. Since the transient voltage reduction is above the recommended minimum limit, there will be no degradation of the solenoid valves.

Significant Hazards Consideration Determination

This Amendment Application does not reduce the requirements of the current Technical Specifications. The proposed change constitutes an additional surveillance requirement not presently included in the Technical Specifications.

The NRC has provided guidance concerning the application of the standards for determining whether license amendments involve no significant hazards considerations by providing examples (48 FR 14870). An example (ii) of an action involving no significant hazards consideration is a change that constitutes an additional limitation, restriction, or control not presently included in the Technical Specifications. The change proposed by

this application fits this example of an action not involving a significant hazards consideration.

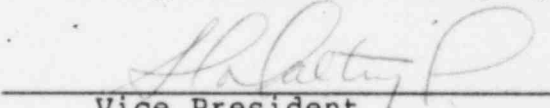
(1) The proposed change does not involve a significant increase in the probability or consequences of an accident previously evaluated because the components supplied by the alternate power (4KV bus) source are designed to withstand the expected voltage transient during the 4-second time delay.

(2) The proposed change does not create the possibility of a new or different kind of accident from any previously evaluated because the components supplied by the alternate power (4KV bus) source are designed to withstand the expected voltage transient during the 4-second time delay.

(3) The proposed change does not involve a significant reduction in a margin of safety since it (a) reduces the probability of a plant transient, and (b) requires periodic verification of the correct setpoint value.

The Plant Operating Review Committee and the Nuclear Review Board have reviewed this proposed change to the Technical Specifications and have concluded that it does not involve an unreviewed safety question or a significant hazard consideration and will not endanger the health and safety of the public.

Respectfully submitted,
Philadelphia Electric Company


Vice President

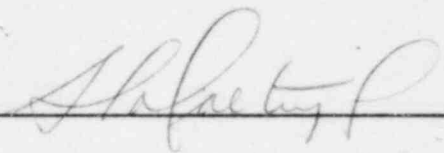
COMMONWEALTH OF PENNSYLVANIA :

: SS.

COUNTY OF PHILADELPHIA :

S. L. Daltroff, being first duly sworn, deposes and
says:

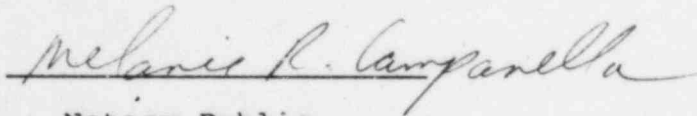
That he is Vice President of Philadelphia Electric
Company, the Applicant herein; that he has read the foregoing
Application for Amendment of Facility Operating Licenses and
knows the contents thereof; and that the statements and matters
set forth therein are true and correct to the best of his
knowledge, information and belief. .



Subscribed and sworn to

before me this 27th day

of June, 1986



Notary Public

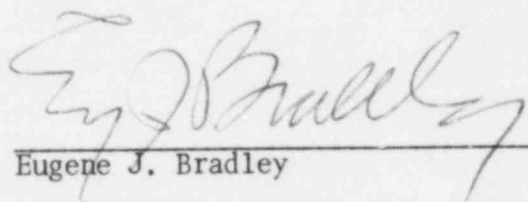
MELANIE R. CAMPANELLA

Notary Public, Philadelphia, Philadelphia Co.

My Commission Expires February 12, 1990

CERTIFICATE OF SERVICE

I certify that service of the foregoing Application was made upon the Commonwealth of Pennsylvania, by mailing a copy thereof, via first-class mail, to Thomas R. Gerusky, Director, Bureau of Radiological Protection, P. O. Box 2063, Harrisburg, PA 17120; all this 30th day of June, 1986.

A handwritten signature in cursive script, appearing to read "Eugene J. Bradley", is written over a horizontal line.

Eugene J. Bradley

Attorney for
Philadelphia Electric Company