

PHILADELPHIA ELECTRIC COMPANY

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JOSEPH W. GALLAGHER
MANAGER
ELECTRIC PRODUCTION DEPARTMENT

(215) 841-5003

September 29, 1983

Docket Nos. 50-277
50-278

Mr. John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUBJECT: Peach Bottom Reactor Protection System
(R.P.S.) Overvoltage & Undervoltage
Surveillance Setpoints

Reference: 1) Application for Amendment
of Operating License Requesting
Change to Peach Bottom Technical
Specifications Relating to the
Reactor Protection System, Filed
December 23, 1981
2) Letter to J. F. Stolz from
S. L. Daltroff, dated March 30, 1983
3) Telephone Conversation between
G. E. Gears (NRC) and B. L. Clark (PECo)
on July 26, 1983

Dear Mr. Stolz:

This letter will document information provided to a member of your staff during a telephone conversation (Reference 3) dealing with Peach Bottom Reactor Protection System overvoltage and undervoltage setpoints.

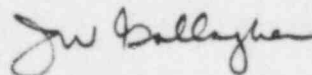
On December 23, 1981, Philadelphia Electric Company submitted an Application for Amendment of Operating Licenses DPR-44 and DPR-56 which, among other things, proposed an overvoltage setpoint of 132 volts and an undervoltage setpoint of 108 volts

for a Peach Bottom Units 2 and 3 Reactor Protection System Modification. In response to an NRC request for information, we provided voltage drop values, between MG sets and scram solenoid fuse panels of 2 to 3 volts. Subsequently, the NRC staff questioned the validity of the overvoltage setpoint based on the 2 to 3 voltage drop.

As reported in the referenced telephone conversation, we have since completed a more extensive voltage drop survey which included many readings from both Units and both RPS buses. The survey determined that the voltage drop has an average range of 6.5 to 7.5 volts. Therefore, to maintain RPS equipment voltages within design limits, these surveillance setpoints should be changed from their previous values to the ones provided on the attached pages. In the interest of conservatism, the 6.5 voltage drop was used to compute the overvoltage setpoint of 131 volts, and the 7.5 voltage drop was used to compute the undervoltage setpoint of 113 volts. Please incorporate the attached pages into our Application for Amendment (Reference 1).

If you have any questions, do not hesitate to call.

Very truly yours,

A handwritten signature in cursive script, appearing to read "JW Gallagher".

Attachments

cc: A. R. Blough, Site Inspector