

PHILADELPHIA ELECTRIC COMPANY

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(215) 841-5003

September 11, 1979

Re: Docket Nos.: 50-277
50-278

Mr. Brian K. Grimes
Acting Assistant Director for Systems Engineering
Division of Operating Reactors
United States Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Grimes:

This is in response to your letter of July 16, 1979, which requested information on Target Rock safety/relief valves. Your questions and our responses for Peach Bottom Atomic Power Station, Units 2 and 3, are treated sequentially.

1. What is the status of each of the Target Rock safety/relief valves at your plant(s); i.e.:
 - a. Are they in their original design configuration?

Response

All Target Rock safety/relief valves are in their original design configuration.

- b. What is the existing simmer margin?

Response

The existing simmer margin of these valves ranges from 109 psi to 134 psi with an average simmer margin of 119 psi.

- c. What modifications have you implemented to improve reliability?

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Response

The following modifications have been made to the Target Rock safety/relief valves presently installed:

1. Insulation was modified so as to not enclose any portion of the air operator.
 2. Installation of improved air operator diaphragm (General Electric SIL #196, Supplement 2).
 3. Reinstallation of pilot filters in pilot valve ports (General Electric SIL #196).
 4. Second stage insert was shortened to preclude stem binding (General Electric SIL #196).
 5. Setpoint of valves was increased to increase simmer margin.
- d. On what date were these modifications made?

Response

The modifications listed above were completed on the following dates respectively:

1. November 14, 1978
 2. December 7, 1978
 3. January 29, 1979
 4. January 30, 1979
 5. August 18, 1977 for Unit 2
May 17, 1978 for Unit 3
2. What maintenance and testing do you routinely perform on these valves and how often is it performed?

Response

Technical Specification 4.6.D.1 requires that at least five Target Rock safety/relief valves shall be setpoint tested or replaced once every operating cycle and that all valves be tested every two operating cycles. Technical Specification 4.6.D.2 requires that at least one valve be disassembled and inspected each refueling outage. Presently, all Target Rock safety/relief valves installed at Peach Bottom are setpoint checked and overhauled each refueling outage.

Additionally, all valves are normally operated once each operating cycle in accordance with Technical Specification 4.6.D.4.

3. What additional modifications and/or maintenance do you plan to implement in the future?

Response

We expect to replace the original three stage pilot operated actuators with the redesigned two stage pilot operated actuators when the new actuators become commercially available.

4. On what date will the modification(s) and/or maintenance in item 3 be implemented?

Response

The actuator replacements will be effected during forthcoming refueling outages.

Should you require additional information, please do not hesitate to contact us.

Very truly yours,

JW Gallagher