

Public Service
Electric and Gas
Company

Stanley LaBruna

Public Service Electric and Gas Company P.O. Box 236, Hancocks Bridge, NJ 08038 609-339-4800

Vice President - Nuclear Operations

April 11, 1989

NLR-N89065

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

FOLLOW-UP RESPONSE TO BULLETIN 88-04
SALEM GENERATING STATION
UNIT NOS. 1 AND 2
DOCKET NOS. 50-272 AND 50-311

Public Service Electric and Gas Company (PSE&G) has received the results of the "ongoing" reviews by Ingersoll-Rand and Pacific Pumps relating to the Salem Residual Heat Removal (RHR) and Safety Injection (SI) pumps. The results of these reviews and the actions taken by PSE&G are provided in the attachment.

Should you have any questions with regard to this transmittal, please do not hesitate to contact us.

Sincerely,



C Mr. J. C. Stone
Licensing Project Manager

Ms. K. Halvey Gibson
Senior Resident Inspector

Mr. W. T. Russell, Administrator
Region I

Mr. Kent Tosch, Chief
New Jersey Department of Environmental Protection
Division of Environmental Quality
Bureau of Nuclear Engineering
CN 415
Trenton, NJ 08625

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STATE OF NEW JERSEY)
) SS.
COUNTY OF SALEM)

Stanley LaBruna, being duly sworn according to law deposes and says:

I am Vice President - Nuclear Operations of Public Service Electric and Gas Company, and as such, I find the matters set forth in our letter dated, April 11, 1989, concerning the Salem Generating Stations, Unit Nos. 1 and 2, are true to the best of my knowledge, information and belief.

Stanley LaBruna

Subscribed and Sworn to before me
this 11th day of April, 1989

Laraine Y. Beard
Notary Public of New Jersey

LARAINÉ Y. BEARD
Notary Public of New Jersey
My Commission Expires May 1, 1991

My Commission expires _____

ATTACHMENT

FOLLOW-UP RESPONSE TO BULLETIN 88-04
SALEM GENERATING STATION
DOCKET NOS. 50-272 AND 50-311

The recirculation flow rates for the RHR and SI pumps have been reviewed by the respective manufacturers. Ingersoll-Rand has provided direction for both short and long term operation of the RHR pumps. Recirculation flows as low as 450 to 500 gpm are acceptable; however, a maximum time limitation of three (3) hours in any 24 hour period should be established. The minimum required flow for continued RHR operation exceeding 3 hours is 2000 gpm.

Operating procedures II-6.3.2 "Initiating Residual Heat Removal" and II-1.3.6 "Mid-loop Operation" shall be revised to include direction to maintain a minimum of 2000 gpm flow for continued RHR operation. The emergency, abnormal and normal operating procedure will include a caution to avoid placing the RHR pumps on recirculation for more than three (3) hours in any 24 hour period.

RHR pump operation shall be logged to provide data for an operational history review. This shall include starts, stops, time on recirculation and continuous flow conditions. This information will be used to establish a practical service limit and inspection frequency.

Pacific Pumps review of the recirculation requirements for the Safety Injection pumps confirmed that the original specified flow rates are acceptable.

The results of these reviews support the original Bulletin 88-04 response that justified the continued operation of Salem Generating Station. Therefore, the procedural changes and the data/history review are the only additional changes that will be performed outside of the original response.