



Public Service Electric and Gas Company P.O. Box E Hancocks Bridge, New Jersey 08038

Salem Generating Station

November 16, 1988

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

SALEM GENERATING STATION
LICENSE NO. DPR-75
DOCKET NO. 50-311
UNIT NO. 2
SPECIAL REPORT 88-8.

This Special Report describes a pressurizer overpressure protection system (POPS) actuation occurring on October 31, 1988. This report is being submitted in accordance with the requirements of Technical Specification Action Statement 3.4.10.3.c pursuant to Technical Specification 6.9.2. It is being submitted within 30 days as per the Action Statement.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "L. K. Miller".

L. K. Miller
General Manager-
Salem Operations

MJP:pc

Distribution

The Energy People

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PLANT IDENTIFICATION:

Salem Generating Station - Unit 2
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Pressurizer Overpressure Protection System Channel II Actuation Due To An Equipment Problem

Event Date(s): 10/31/88

Report Date: 11/16/88

This report was initiated by Incident Report No. 88-465

CONDITIONS PRIOR TO OCCURRENCE:

Mode 5 - Reactor Power Level 0% - Unit Load 0 MWe

DESCRIPTION OF OCCURRENCE:

This Special Report addresses a Pressurizer Overpressure Protection System (POPS) actuation. The actuation occurred on October 31, 1988 at 0833 hours. This report is submitted for information in accordance with the requirements of Technical Specification Action Statement 3.4.10.3.c. which states:

In the event that either the POPS's or the RCS vents are used to mitigate an RCS pressure transient, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within thirty (30) days. The report shall describe the circumstances initiating the transient, the effect of the POPS's or vents on the transient and any corrective action necessary to prevent recurrence.

On October 31, 1988, with the Unit in Mode 5 (Cold Shutdown), while the board Nuclear Control Operator (NCO) was performing Reactor Coolant System (RCS) "Fill and Vent" operations, indicated plant pressure increased to approximately 360 psig and Pressurizer Overpressure Protection Channel II (Power Operated Relief Valves 2PR2) actuated. The POPS valve closed within a few seconds following actuation and the RCS pressure returned to approximately 325 psig.

APPARENT CAUSE OF OCCURRENCE:

The root cause of this event has been attributed to an equipment problem. Investigation of this event revealed that the Control Room Console pressure indication for Channel II was reading approximately 20 psig low. Channel II was the channel being used by the NCO to monitor RCS pressure.

When No. 23 Reactor Coolant Pump (RCP) was started per Operations procedure II 1.3.4, "Filling and Venting the RCS", the resultant pressure spike was sufficient to actuate POPS. During RCS fill and vent operations, RCPs are run for short durations (bumped) to remove entrained gas in the RCS.

APPARENT CAUSE OF OCCURRENCE:

The Channel II setpoint for POPS was set at approximately 370 psig (must be less than 375 psig as per Technical Specification Action Statement 3.4.10.3.a).

ANALYSIS OF OCCURRENCE:

The Fill and Vent operations were performed in accordance with the respective procedures. Valve 2PR2 remained open for a few seconds. Had the 2PR2 valve failed to close, the operator would have responded by closing blocking valve 2PR7. All systems and indications functioned as designed. There was no undue risk to the health or safety of the public due to this event. In accordance with Technical Specification Action Statement 3.4.10.3.c, because the POPS was actuated to mitigate a RCS pressure transient, this Special Report is being submitted pursuant to the requirements of Technical Specification 6.9.2.


Valve 2PR1 did not open (Channel I). Investigation revealed that the actuation setpoint was out of calibration "high" by approximately 20 psig.

CORRECTIVE ACTION:

Operations Department procedure II 1.3.4 has been reviewed. No procedure modifications are required.

The POPS channels have been re-calibrated and equipment repaired/replaced as applicable.

This event will be reviewed by the Nuclear Training Department for inclusion in applicable training programs.


General Manager -
Salem Operations

MJP:pc

SORC Mtg. 88-101



PSEG

Public Service Electric and Gas Company P.O. Box 236 Hancocks Bridge, New Jersey 08038

Nuclear Department

December 11, 1988

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Dear Sir:

MONTHLY OPERATING REPORT
SALEM NO. 2
DOCKET NO. 50-311

In compliance with Section 6.9.1.6, Reporting Requirements for the Salem Technical Specification, the original copy of the monthly operating reports for the month of November 1988 are being sent to you.

Average Daily Unit Power Level
Operating Data Report
Unit Shutdowns and Power Reductions
Safety Related Maintenance
Major Plant Modification
Operating Summary
Refueling Information

Sincerely yours,

L. K. Miller
General Manager -
Salem Operations

RH:sl

cc: Mr. William T. Russell
Regional Administrator USNRC
Region I
631 Park Avenue
King of Prussia, PA 19406

Enclosures
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The Energy People

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