



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

Salem Generating Station

September 29, 1982

Mr. R. C. Haynes  
Regional Administrator  
USNRC  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Mr. Haynes:

LICENSE NO. DPR-75  
DOCKET NO. 50-311  
REPORTABLE OCCURRENCE 82-086/03L

Pursuant to the requirements of Salem Generating Station Unit No. 2, Technical Specifications, Section 6.9.1.9.b, we are submitting Licensee Event Report for Reportable Occurrence 82-086/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura  
General Manager -  
Salem Operations

RF:ks *747*

CC: Distribution

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PDR ADOCK 05000311  
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The Energy People

*IEU*

Report Number: 82-086/03L  
Report Date: 09-29-82  
Occurrence Date: 09-15-82  
Facility: Salem Generating Station, Unit 2  
Public Service Electric & Gas Company  
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

No. 24 Service Water Pump - Inoperable.

This report was initiated by Incident Report 82-271.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 48% - Unit Load 470 MWe.

DESCRIPTION OF OCCURRENCE:

At 1400 hours, September 10, 1982, during routine operation, water was observed dripping from the oil level sightglass on No. 24 Service Water Pump motor. The pump was declared inoperable, and with No. 25 Service Water Pump already inoperable for planned maintenance, Action Statement 3.7.4 was entered. The redundant service water loop was operable throughout the occurrence.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Investigation of the problem revealed that the motor bearing oil cooler had failed. Accelerated erosion and corrosion of the cooler were caused by silt particles in the service water and dissimilar metals in the system piping.

ANALYSIS OF OCCURRENCE:

Operability of the service water system ensures that sufficient cooling capacity is available for continued operation of safety related equipment during normal and accident conditions. The redundant cooling capacity of this system is consistent with assumptions used in the accident analyses.

As noted, the redundant loop was operable, therefore, no risk to the health or safety of the public was involved. The occurrence constituted operation in a degraded mode permitted by a limiting condition for operation, and is reportable in accordance with Technical Specification 6.9.1.9.b.

ANALYSIS OF OCCURRENCE: (continued)

## Action Statement 3.7.4 requires:

With only one service water loop operable, restore at least two loops to operable status within 72 hours or be in at least hot standby within the next 6 hours and in cold shutdown within the following 30 hours.

CORRECTIVE ACTION:

Maintenance was completed on No. 25 Service Water Pump, and the pump was satisfactorily tested. No. 25 Service Water Pump was declared operable and Action Statement 3.7.4 was terminated at 1730 hours, September 10, 1982.

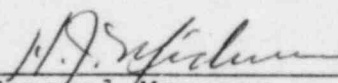
The failed cooler on No. 24 Service Water Pump was repaired utilizing Belzona metal filler. A new design cooler will be installed at the overhaul of the pump motor during the next refueling.

FAILURE DATA:

Allis Chalmers  
Vertical Solid Shaft 1000 HP Motor  
Bearing Oil Cooler

Similar failures of other coolers supplied by service water have occurred; the problem has been successfully addressed by installation of components fabricated of materials better suited to use in the service water system.

Prepared By R. Frahm

  
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General Manager -  
Salem Operations

SORC Meeting No. 82-87