



Public Service Electric and Gas Company 80 Park Plaza Newark, N.J. 07101 Phone 201/430-7000

July 27, 1981

Mr. Boyce H. Grier  
Director of USNRC  
Office of Inspection and Enforcement  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406



Dear Mr. Grier:

LICENSE NO. DPR-75  
DOCKET NO. 50-311  
REPORTABLE OCCURRENCE 81-51/03L

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 81-51/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

*R. A. Uderitz*  
R. A. Uderitz  
General Manager -  
Nuclear Production

CC: Director, Office of Inspection  
and Enforcement (30 copies)  
Director, Office of Management  
Information and Program Control  
(3 copies)

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The Energy People

Report Number: 81-51/03L  
Report Date: July 27, 1981  
Occurrence Date: 6-27-81  
Facility: Salem Generating Station, Unit 2  
Public Service Electric & Gas Company  
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Boron Injection Tank - Out Of Specification.  
This report was initiated by Incident Report 81-221.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 30% - Unit Load 260 MWe

DESCRIPTION OF OCCURRENCE:

At 0403 hours on June 27, 1981, No. 22 steam generator feed pump tripped, causing a low low level in No. 22 steam generator, which tripped the reactor at 0404 hours. At 0408 hours a safety injection occurred due to low Tav<sub>g</sub> on 3 of 4 loops in coincidence with high steam flow on Nos. 21 and 23 steam generators, causing the boron injection tank concentration to decrease to less than 20,000 ppm of boron. Action statement 3.5.4.1.b was entered at 0408 hours, June 27, 1981.

This constituted operation in a degraded mode in accordance with technical specification 6.9.1.9.b.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The boron concentration in the boron injection tank was diluted to less than 20,000 ppm boron due to initiation of safety injection.

ANALYSIS OF OCCURRENCE:

Technical specification 3.5.4.1 requires:

With the boron injection tank inoperable, restore the tank to operable status within one hour or be in hot standby and borated to shutdown margin equivalent to 1%  $\Delta k/k$  at 200°F within the next six hours; restore the tank to operable status within the next 7 days or be in hot shutdown within the next 12 hours.

July 27, 1981

CORRECTIVE ACTION:

The boron injection tank was borated to between 20,000 and 22,500 ppm boron from the boric acid storage tank. Action statement 3.5.4.1.b was terminated at 1622 hours, June 27, 1981.

FAILURE DATA:

Not Applicable

Prepared By F. DickeySORC Meeting No. 81-68

H.J. Midura  
Manager - Salem Generating Station