



**PSEG**

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

Salem Generating Station

December 8, 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 82-141/03L

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 82-141/03L. This report is required within  
thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura  
General Manager -  
Salem Operations

RF:ks *782*

CC: Distribution

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PDR ADOCK 05000311  
S PDR

Report Number: 82-141/03L  
Report Date: 12-08-82  
Occurrence Date: 11-21-82  
Facility: Salem Generating Station Unit 2  
Public Service Electric & Gas Company  
Hancock's Bridge, New Jersey 08038

#### IDENTIFICATION OF OCCURRENCE:

Accident Monitoring Instrumentation - Reactor Coolant System  
Subcooling Margin Monitor - Inoperable.

This report was initiated by Incident Reports 82-482 and 82-486.

#### CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - RX Power 81 % - Unit Load 890 MWe.

#### DESCRIPTION OF OCCURRENCE:

On two separate occasions, at 1420 hours, November 21, 1982, and at 0730 hours, December 4, 1982, during routine operation, the Control Room Operator discovered that the P-250 Computer was inoperable due to a parity error; attempts to bootstrap the computer failed. Since it utilizes the computer for inputs and calculations, the Reactor Coolant System (RCS) subcooling margin monitor in both cases was declared inoperable, and Technical Specification Action Statement 3.3.3.7a was entered. The wide range RCS temperature and pressure indications were operable and steam tables were available in the Control Room throughout both occurrences.

#### APPARENT CAUSE OF OCCURRENCE:

The malfunctions of the P-250 Computer were apparently due to the power supply breaker tripping in association with periodic increases in cabinet ambient temperatures (approximately 80 F). The temperature increases were attributed to inadequate capacity of the cabinet cooling system. Previous trips of the breaker had been noted, but had been assumed to be spurious events resulting from de-energizing the unit following a malfunction.

#### ANALYSIS OF OCCURRENCE:

Operability of the accident monitoring instrumentation ensures that sufficient information is available on selected plant parameters to monitor and assess these variables following an accident. Since, as noted, wide range indication and steam tables were available allowing determination of the subcooling margin, the event involved no risk to the health and safety of the public.

Due to the loss of redundancy, the occurrence constituted operation in a degraded mode permitted by a limiting condition for operation. The incident is therefore reportable in accordance with Technical

ANALYSIS OF OCCURRENCE: (cont'd)

Specification 6.9.1.9b.

Action Statement 3.3.3.7a requires:

With the number of operable accident monitoring channels less than the required number of channels, restore the inoperable channel(s) to operable status within 7 days, or be in at least hot shutdown within the next 12 hours.

CORRECTIVE ACTION:

In each case, following investigation of the problem, the tripped breaker was reset and the bootstrap program was successfully loaded. In the first instance, the P-250 Computer was returned to service, the RCS subcooling margin monitor was satisfactorily tested, and Action Statement 3.3.3.7a was terminated at 2000 hours, November 21, 1982.

Following the second occurrence, a temporary fan was installed in the cabinet to increase air circulation and improve cooling. The computer was returned to operation, the monitor was satisfactorily tested, and the action statement was terminated for a second time at 1000 hours, December 4, 1982.

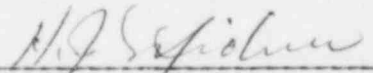
Due to recurrent problems with the computer, a replacement breaker has been ordered and will be installed upon receipt of the part. Improvement of the ventilation system is presently under investigation; a Supplemental Report will be submitted upon final resolution of the problem.

FAILURE DATA:

Previous malfunctions of the P-250 Computer documented in LER 82-131/03L were similar in nature and may be related to the occurrences discussed in this report.

Westinghouse Electric Corp.  
PRODAC 250 Computer

Prepared By R. Frahm

  
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General Manager -  
Salem Operations

SORC Meeting No. 82-109