



Public Service Electric and Gas Company P.O. Box 168 Hancocks Bridge, New Jersey 08038
Salem Generating Station

October 28, 1981

Mr. R. C. Haynes
Director of USNRC
Office of Inspection and Enforcement
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406



Dear Mr. Haynes:

LICENSE NO. DPR-75
DOCKET NO. 50-311
REPORTABLE OCCURRENCE 81-101/03X-1
SUPPLEMENTAL REPORT

Pursuant to the requirements of Salem Generating Station Unit No. 2 Technical Specifications, Section 6.9.1.9.b, we are submitting supplemental Licensee Event Report for Reportable Occurrence 81-101/03X-1.

Sincerely yours,

H. J. Midura
General Manager -
Salem Operations

CC: Distribution

8111100756 811028
PDR ADOCK 05000311
S PDR

The Energy People

Handwritten initials: 1E22, 5/11

Report Number: 81-101/03X-1
Report Date: 10-28-81
Occurrence Date: 9-6-81
Facility: Salem Generating Station, Unit 2
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Radiation Monitor 2R12A - Loss of Power.
This report was initiated by Incident Report 81-367.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 88% - Unit Load 1000 MWe

DESCRIPTION OF OCCURRENCE:

On September 6, 1981, due to a momentary loss of power in conjunction with failure of the backup power pack, Radiation Monitor 2R12A setpoints, warning, failure, and alarm, all failed high. At 2400 hours, September 6, 1981 Action Statement 3.3.3.1.a was entered.

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

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Design error. The reason the setpoints failed high on a momentary power loss was failure of the four 1.2 volt nickel-cadmium batteries in the backup power pack. The manufacturer recommends no more than three batteries in the power pack to prevent overcharging. The four battery system allows the batteries to overcharge and short internally.

ANALYSIS OF OCCURRENCE:

Technical specification 3.3.3.1.a requires:

With a radiation monitoring channel alarm/trip setpoint exceeding the value shown in table 3.3-6, adjust the setpoint to within the limit within 4 hours or declare the channel inoperable.

CORRECTIVE ACTION:

The batteries were replaced in the backup power pack and the setpoints were reinstated in the Radiation Monitor. It was tested satisfactorily and returned to service. At 0100 hours, September 9, 1981 Action Statement 3.3.3.1.a was terminated.

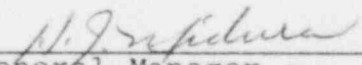
A DCR is in effect to modify all power packs to three batteries. Modifications are in progress.

Batteries are tested every 18 months during scheduled calibration.

FAILURE DATA:

Victoreen Instrument Division
M868B Power Supply

Prepared By F. Dickey



General Manager -
Salem Operations

SORC Meeting No. 81-112