



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

Salem Generating Station

November 6, 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 81-108/03L

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 81-108/03L. This report is required within
thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura
General Manager -
Salem Operations

CC: Distribution

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PDR ADOCK 05000311
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Report Number: 81-108/03L
Report Date: 11-6-81
Occurrence Date: 10-9-81
Facility: Salem Generating Station, Unit 2
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Individual Rod Position Indicators - 2C1 and 2D2 - Inoperable.
This report was initiated by Incident Reports 81-404 and 81-405.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 76% - Unit Load 840 MWe

DESCRIPTION OF OCCURRENCE:

On October 9, 1981 the operator noticed that Individual Rod Position Indicator (IRPI) for Rod 2C1 was pegged high. At 1715 hours, IRPI 2C1 was declared inoperable and Action Statement 3.1.3.2.1.a was entered.

On the same date, after IRPI 2C1 was repaired and declared operable, the IRPI and Control Rod Bank Demand Indicator for Rod 2D2 were in disagreement by greater than ± 12 steps. At 2109 hours, October 9, 1981, IRPI 2D2 was declared inoperable and Action Statement 3.1.3.2.1.a was entered.

These occurrences constituted operation in a degraded mode in accordance with Technical Specification 6.9.1.9.b.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

IRPI 2C1 had a failed operational amplifier in the Rod Position Indicator.

IRPI 2D2 required a hot calibration with new input data to bring it in specification.

ANALYSIS OF OCCURRENCE:

Technical Specification 3.1.3.2.1 requires that in modes 1 and 2 with a maximum of one rod position indicator per bank inoperable either:

1. Determine the position of the non-indicating rod(s) indirectly by the movable incore detectors at least once per 8 hours and immediately after any motion of the non-indicating rod which exceeds 24 steps in one direction since the last determination of the rod's position, or
2. Reduce thermal power to less than 50% of rated thermal power within 8 hours.

CORRECTIVE ACTION:

The operational amplifier in the Rod Position Indicator for IRPI 2C1 was replaced and IRPI 2C1 was tested satisfactorily. At 2100 hours, October 9, 1981, IRPI 2C1 was declared operable and Action Statement 3.1.3.2.1.a was terminated.

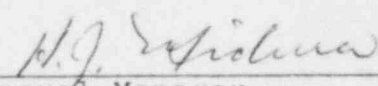
The Rod Position Indicator and Signal Conditioning Module for IRPI 2D2 were recalibrated, but IRPI 2D2 indication would not come into specification. Flux mapping was performed to verify rod position, and a hot calibration was performed using new input data. IRPI 2D2 was tested satisfactorily, and at 1000 hours, October 16, 1981, it was declared operable and Action Statement 3.1.3.2.1.a was terminated.

FAILURE DATA:

Bailey Instrument Co., Inc.
Bailey Edgewise Indicator
Model RY2
Operational Amplifier LM-307H

Magnetics, Inc.
Signal Conditioning Module
Type E2786

Prepared By F. Dickey


General Manager -
Salem Operations

SORC Meeting No. 81-115