



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

Salem Generating Station

October 20, 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 82-118/03L

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 82-118/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura  
General Manager -  
Salem Operations

RF:ks *797*

CC: Distribution

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PDR ADDCK 05000311  
S PDR

The Energy People

*IEU*

Report Number: 82-118/03L  
Report Date: 10-20-82  
Occurrence Date: 09-29-82  
Facility: Salem Generating Station, Unit 2  
Public Service Electric & Gas Company  
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Engineered Safety Feature Actuation System - No. 2C Vital Bus Under Voltage Relay - Improper Setpoint.

This report was initiated by Incident Report 82-316.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 82% - Unit Load 890 MWe.

DESCRIPTION OF OCCURRENCE:

At 1520 hours, September 29, 1982, during performance of surveillance testing of the Engineered Safety Feature Actuation System (ESFAS), it was discovered that No. 2C Vital Bus undervoltage relay failed to drop out on decreasing voltage. The channel was declared inoperable, placed in the tripped condition, and Limiting Condition for Operation 3.3.2b Action 14 was entered. The redundant undervoltage channels were operable throughout the occurrence.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Investigation revealed that the undervoltage relay setpoint was low. A similar problem had been observed on August 25, 1982, (see LER 82-094/03L). Due to the similarity of the two events, further investigation was conducted; it was subsequently discovered that the relay stop lever was out of adjustment.

ANALYSIS OF OCCURRENCE:

The operability of the ESFAS ensures that; 1) the associated ESF action and/or reactor trip will be initiated when the parameter monitored by each channel or combination thereof reaches its setpoint, 2) the specified coincidence logic is maintained, 3) sufficient redundancy is maintained to permit a channel to be out of service for testing or maintenance, and 4) sufficient system functional capability is available for protective and ESF purposes from diverse parameters. The operability of these systems is required to provide the overall reliability, redundancy and diversity assumed available in the facility design for the protection and mitigation of accident and transient conditions. The integrated operation of each of these systems is consistent with the assumptions used in the accident analysis.

ANALYSIS OF OCCURRENCE: (continued)

Redundant trip capability is provided by two other independent channels, therefore, this occurrence involved no risk to the health or safety of the general public. Inoperability of one trip channel constitutes 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.

Action Statement 3.3.2b Action 14 requires:

With the number of operable channels one less than the total number of channels, operation may proceed until performance of the next required channel functional test, provided the inoperable channel is placed in the tripped condition within one hour.

CORRECTIVE ACTION:

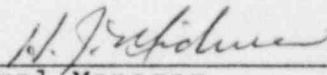
As noted, the channel was placed in the tripped condition in compliance with the action statement. The undervoltage relay stop lever was properly adjusted; the trip setpoint was reset, and the channel was tested satisfactorily. No. 2C Vital Bus undervoltage channel was declared operable, and Limiting Condition for Operation 3.3.2b Action 14 was terminated at 1022 hours, September 30, 1982.

Due to the recurrence of similar problems with the relay over the past year, a new relay is on order and will be installed when received.

FAILURE DATA:

General Electric Corporation  
Undervoltage Relay  
Model 121AV74A1A

Prepared By R. Frahm

  
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General Manager -  
Salem Operations

SORC Meeting No. 82-94B