



PSEG

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

Salem Generating Station

July 14, 1982

Mr. R. C. Haynes
Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Haynes

LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 81-52/03X-1
SUPPLEMENTAL REPORT

Pursuant to the requirements of Salem Generating Station
Unit No. 1 Technical Specifications, Section 6.9.1.9.b,
we are submitting supplemental Licensee Event Report for
Reportable Occurrence 81-52/03X-1.

Sincerely yours,

H. J. Midura
General Manager -
Salem Operations

RH:ks

CC: Distribution

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PDR ADDCK 05000272
S PDR

The Energy People

IEU

Report Number: 81-52/03X-1
Report Date: 07-14-82
Occurrence Date: 05-20-81
Facility: Salem Generating Station, Unit 1
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Engineered Safety Feature Actuation System (ESFAS),
Instrumentation, Safety Equipment Control (SEC) Channel
1B Malfunction.

This report was initiated by Incident Report 81-145.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 2 - Rx Power 0% - Unit Load 0 MWe.

DESCRIPTION OF OCCURRENCE:

At 0454 hours on May 20, 1981, Action Statement 3.3.2.1a was entered due to failure of SEC Channel 1B of the ESFAS, which was associated with the reactor trip.

This occurrence constituted operation in a degraded mode in accordance with Technical Specification 6.9.1.9.b.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Failure of the sample room particulate monitor produced a voltage transient which was of sufficient magnitude to affect the SEC Channel 1B, and produce an erroneous signal.

ANALYSIS OF OCCURRENCE:

With an ESFAS instrumentation channel inoperable, the following action applies IAW Technical Specification 3.3.2.1, with the number of operable channels one less than the total number of channels: be in hot standby within 6 hours and in cold shutdown within the following 30 hours.

CORRECTIVE ACTION:

SEC Channel 1B chassis was replaced and maintenance procedure M3B was performed to determine the cause of the voltage transient; no cause was identified. Tests were then conducted to determine the effects on the SEC system of grounding the 115VAC supply. The tests showed that grounding could cause erroneous signals. The manufacturer was contacted for assistance. After discussion it was decided that No. 1B SEC Channel could be returned to service, and that the manufacturer would investigate the problem of noise in the SEC Cabinet. SEC Channel 1B was declared operable and returned to service, and Action Statement 3.3.2.1a was terminated at 2047 hours on May 20, 1981.

CORRECTIVE ACTION: (continued)

As a result of further testing by the Licensee and Manufacturer, Design Change Request (DCR) 1EC-1386 has been implemented. This DCR installed noise suppression circuits, which have been effective in reducing electromagnetic transients in the SEC system.

FAILURE DATA:

Not Applicable.

Prepared By R. Heller

H. J. [Signature]
General Manager -
Salem Operations

SORC Meeting No. 82-68