



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

Salem Generating Station

May 5, 1983

Mr. J. Allan
Acting Regional Administrator
USNRC
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Allan

LICENSE NO. DPR-75
DOCKET NO. 50-311
REPORTABLE OCCURRENCE 83-015/03L

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 83-015/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

J. M. Zupko, Jr.
General Manager -
Salem Operations

RF:ks *JMF*

CC: Distribution

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PDR ADOCK 05000311
S PDR

Report Number: 83-015/03L
Report Date: 05-04-83
Occurrence Date: 04-07-83
Facility: Salem Generating Station Unit 2
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Plant Systems - Mechanical Snubbers - Inoperable.

This report was initiated by Incident Reports 83-066 and 83-070.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 6 - RX Power 0 % - Unit Load 0 MWe.

DESCRIPTION OF OCCURRENCE:

On April 7, 1983. during a routine shutdown for refueling, results of testing of 2 mechanical snubbers in accordance with Technical Specification Surveillance Requirement 4.7.9c revealed that the snubbers did not meet test acceptance criteria. The snubbers included one device on the Safety Injection System and another on the Main Steam Drain System (Nos. 2A-SISN-105A and 2P-MSDSN-1003). Testing was performed by Wylie Laboratories, Huntsville, AL.

Results of additional testing received from Wylie Laboratories on April 22, 1983. revealed 2 more snubbers had failed the functional tests. Both snubbers were on the Safety Injection System (Nos. 2P-SISN-104 and 2C-SISN-9).

The snubbers involved were all small bore mechanical devices and were of the same manufacture. Operability of the snubbers is not necessary in Mode 6 since the Safety Injection and Main Steam Systems are not required to be operable.

APPARENT CAUSE OF OCCURRENCE:

Investigation of the failures is presently underway. Two of the devices involved have been sent to the manufacturer for analysis. In accordance with the Technical Specifications, an additional 10% of the snubbers will be tested, with the sample skewed towards the smaller bore devices. A detailed evaluation of the failure mechanism, including identification of potentially generic aspects, will then be performed.

ANALYSIS OF OCCURRENCE:

Operability of snubbers on safety-related systems is required to ensure that the structural integrity of the systems is maintained during and following a seismic or other event initiating dynamic loads. Operability of the Safety Injection System, as an Emergency

ANALYSIS OF OCCURRENCE: (cont'd)

Core Cooling System (ECCS) subsystem ensures that sufficient emergency core cooling capability will be available in the event of a LOCA, assuming the loss of one subsystem in accordance with single failure criteria. Each ECCS subsystem provides long term core cooling capability in the recirculation mode.

When a snubber is found inoperable, an engineering evaluation is performed, in addition to the determination of the snubber mode of failure, in order to determine if any safety related component or system has been adversely affected. The evaluation specifically shall determine whether or not the mode of failure has imparted a significant effect or degradation on the supported component or system. The inoperability of a snubber does not of itself imply inoperability of the component or system, and the failures do not necessarily involve any risk to the health or safety of the public. Due to the possibility of operation in a degraded mode permitted by a limiting condition for operation, the event is reportable in accordance with Technical Specification 6.9.1.9b.

CORRECTIVE ACTION:

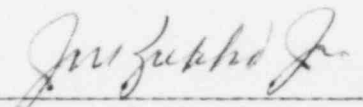
As noted, 2 of the devices which failed testing have been returned to the manufacturer for analysis. Additional testing of small-bore snubbers will be performed, in accordance with the Technical Specifications. Pending the completion of testing and analysis of results, repair or replacement of the devices will be completed as necessary. Finally, a formal Safety Evaluation will be prepared by the Engineering Department. A Supplemental Report will be submitted upon final resolution of the problems.

FAILURE DATA:

Pacific Scientific Co.
Small-bore Mechanical Snubbers
Models PSA 1/4 and PSA 1/2

Prepared By R. Frahm

SORC Meeting No. 83-060



General Manager -
Salem Operations