

# LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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REPORT SOURCE

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DOCKET NUMBER										EVENT DATE								REPORT DATE						

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 On November 22, 1983, while performing routine surveillance testing on Seismic Instru-

0 3 mentation, the Triaxial Time-History Accelerograph located behind the bioshield on

0 4 81' Elevation of the containment building, did not respond as required. The instru-

0 5 ment was declared inoperable, and a special report was submitted on December 30, 1983.

0 6 On January 4, 1984, during a maintenance shutdown, the accelerometer was replaced. The

0 7 redundant accelerographs were operable throughout the occurrence, and the event involved

0 8 no undue risks to the health or safety of the public.

SYSTEM CODE 9 10		CAUSE CODE 11		CAUSE SUBCODE 12		COMPONENT CODE 13 14 15 16 17 18				COMP. SUBCODE 19		VALVE SUBCODE 20	
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ACTION TAKEN 13 14		FUTURE ACTION 15 16		EFFECT ON PLANT 17 18		SHUTDOWN METHOD 19 20		HOURS 21 22 23 24		ATTACHMENT SUBMITTED 25 26		NPRD-4 FORM SUB. 27 28	
C 18 Z		Z		Z		Z		0 0 0 0		Y		Y	
PRIME COMP. SUPPLIER 29 30		COMPONENT MANUFACTURER 31 32 33 34											
A 25		K 1 3 0											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The detector (Kinematics Model FBA-3 accelerometer) was contaminated, which

1 1 precluded the possibility of troubleshooting and determining the exact failure

1 2 mechanism. Since this was the first detector failure experienced, the occurrence

1 3 was of an isolated nature.

1 4

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FACILITY STATUS (28) 1 5 E 1 0 0 29 N/A 30 OTHER STATUS 31 B 32 Surveillance Testing 33

ACTIVITY CONTENT RELEASED OF RELEASE 34 Z 35 AMOUNT OF ACTIVITY 36 LOCATION OF RELEASE 37 N/A 38

PERSONNEL EXPOSURES NUMBER 39 0 0 0 40 TYPE 41 Z 42 DESCRIPTION 43 N/A 44

PERSONNEL INJURIES NUMBER 45 0 0 0 46 TYPE 47 Z 48 DESCRIPTION 49 N/A 50

LOSS OF OR DAMAGE TO FACILITY TYPE 51 1 9 52 Z 53 DESCRIPTION 54 N/A 55

PUBLICITY ISSUED 56 2 0 57 N 58 DESCRIPTION 59 N/A 60

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NRC USE ONLY

PHONE: (609) 339-4309



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

Salem Generating Station

February 24, 1984

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Dear Sir:

LICENSE NO. DPR-70  
DOCKET NO. 50-272  
REPORTABLE OCCURRENCE 83-062/99X-1  
SUPPLEMENTAL REPORT

Pursuant to the requirements of Salem Generating Station  
Unit No. 1 Technical Specifications, Section 6.9.2.b,  
we are submitting supplemental Licensee Event Report for  
Reportable Occurrence 83-062/99X-1.

Sincerely yours,

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

JR:k11742

CC: Distribution

Report Number: 83-062/99X-1

Report Date: 02/24/84

Occurrence Date: 11/22/83

Facility: Salem Generating Station Unit 1  
Public Service Electric & Gas Company  
Hancock's Bridge, New Jersey 08038

#### IDENTIFICATION OF OCCURRENCE:

Seismic Instrumentation - Reactor Containment 81' Elevation - Triaxial  
Time-History Accelograph - Inoperable

This report was initiated by Incident Report 83-211

#### CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 100 % - Unit Load 1150 MWe

#### DESCRIPTION OF OCCURRENCE:

Approximately 1400 hours, November 22, 1983, during routine power operation, while performing surveillance testing of seismic monitoring instrumentation, the Triaxial Time-History Accelograph (located inside of the bioshield on the 81' elevation of the containment building) did not respond as required. The instrument was declared inoperable at that time. The symptoms indicate a failed detector. Because the detector is located inside of the bioshield, a thorough investigation could not be conducted while the unit was at power. In accordance with Technical Specification Action Statement 3.3.3.3.a, a special report was submitted to the Commission on December 30, 1983, stating that the instrument would be repaired during the next available shutdown.

#### APPARENT CAUSE OF OCCURRENCE:

Subsequently, during a maintenance shutdown, investigation revealed that the detector ( Kinematics Model FBA-3 accelerometer) had failed. The detector was contaminated, which precluded the possibility of troubleshooting and determining the exact failure mechanism. Since this was the first detector failure experienced, the occurrence was of an isolated nature.

#### ANALYSIS OF OCCURRENCE:

The operability of the seismic instrumentation ensures that sufficient capability is available to promptly determine the magnitude of a seismic event and evaluate the response of those features important to safety. This capability is required to permit comparison of the measured response to that used in the design basis for the facility.

ANALYSIS OF OCCURRENCE: (cont'd)

Technical Specification Action Statement 3.3.3.3.a. states:

With one or more seismic monitoring instruments inoperable for more than 30 days, prepare and submit a special report to the Commission pursuant to Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the instrument(s) to operable status.

The redundant Triaxial Time-History Accelographs, located on the 130' elevation of the containment building and on the 122' elevation of the auxiliary building, were operable throughout the occurrence. This event involved no undue risk to the health or safety of the public. Because the instrument was not repaired within thirty (30) days, the initial report was submitted in accordance with Technical Specification 6.9.2.b.

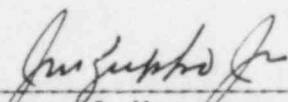
CORRECTIVE ACTION:

On January 4, 1984, the Triaxial Time-History Accelerometer was replaced. The surveillance was again performed, with the instrument functioning satisfactorily.

FAILURE DATA:

Kinematics Inc.  
Time-History Accelograph  
Accelerometer  
Model FBA-3

Prepared By J. Rupp

  
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General Manager -  
Salem Operations

SORC Meeting No. 84-024