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714/492-7700



Public Service Electric and Gas Company P.O. Box E Hancocks Bridge, New Jersey 08035

Salem Generating Station

January 3, 1983

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 82-092/03L

Pursuant to the requirements of Salem Generating Station
Unit No. 1, Technical Specifications, Section 6.9.1.9.b,
we are submitting Licensee Event Report for Reportable
Occurrence 82-092/03L. This report is required within
thirty (30) days of the occurrence.

Sincerely yours,

H. J. Midura
H. J. Midura
General Manager -
Salem Operations

RF:ks *248*

CC: Distribution

830440256 →

The Energy People

Report Number: 82-092/03L

Report Date: 12-29-82

Occurrence Date: 12-06-82

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

IDENTIFICATION OF OCCURRENCE:

Radiation Monitoring Instrumentation - Containment Purge and Pressure/Vacuum Relief Isolation System - Inoperable.

This report was initiated by Incident Report 82-503.

CONDITIONS PRIOR TO OCCURRENCE:

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

DESCRIPTION OF OCCURRENCE:

At 0411 hours, December 6, 1982, during routine refueling operation, the Control Room Operator discovered that the Containment Air Particulate Monitor 1R11A indication had failed low. The channel was declared inoperable; since it is utilized by the Containment Purge and Pressure/Vacuum Relief Isolation System, Limiting Condition for Operation 3.3.3.1b Action 22 was entered. The containment air lock doors were immediately shut to further isolate the containment purge flowpath. The related containment gaseous and iodine monitors (Channels 1R12A and 1R12B) were operable providing redundant indication and purge isolation capability.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Investigation of the problem revealed that the channel scintillation detector had failed. No other problems were evident, and no recent, similar occurrences had been noted. The event was therefore assumed to be of an isolated nature.

ANALYSIS OF OCCURRENCE:

The operability of the Containment Purge and Pressure/Vacuum Relief Isolation System insures that the containment vent and purge penetrations will be automatically isolated upon detection of high radiation levels within the containment. This feature is required to restrict the release of radioactive material from the containment atmosphere to the environment in the event of an accident.

ANALYSIS OF OCCURRENCE: (cont'd)

Limiting Condition for Operation 3.3.3.1b Action 22 requires:

With the Containment Purge and Pressure/Vacuum Relief Isolation System inoperable, close each of the purge and pressure/vacuum relief penetrations providing direct access from the containment atmosphere to the outside atmosphere.

As noted, the air lock doors were immediately closed. The penetrations in the purge and pressure/vacuum relief line were already closed, in compliance with the action statement. Due to the operable redundant monitoring channels and the prompt adherence to administrative controls, no risk to the health and safety of the public was involved. The occurrence constituted operation in a degraded mode permitted by a limiting condition for operation and is reportable in accordance with Technical Specification 6.9.1.9b.

CORRECTIVE ACTION:

The failed detector was replaced and the channel was satisfactorily tested. Radiation Monitor 1R11A was declared operable at 2040 hours, December 6, 1982, and Limiting Condition for Operation Action 22 was terminated. No further action was deemed necessary in view of the nature of the occurrence.

FAILURE DATA:

LFE Corp.
Scintillation Detector
Model MD5B

Prepared By R. Frahm

H. J. Whelan
General Manager -
Salem Operations

SORC Meeting No. 82-114

CONTROL BLOCK:

PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION:

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REPORT SOURCE

60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
L	6	0	5	0	0	0	2	7	2	7	1	2	0	6	8	2	9	1	2	2
DOCKET NUMBER										EVENT DATE					REPORT DATE					

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

6 On December 6, 1982, during routine refueling operation, the Control Room Operator

03 [discovered that the Containment Air Particulate Monitor 1811A indication had failed

6 4 low. The channel was declared inoperable; since it is utilized by the Containment

5. Purge and Pressure/Vacuum Relief Isolation System, Limiting Condition for Operation

3.3.3.1b Action 22 was entered. Redundant gaseous and iodine monitors including their

[b] (7) purge isolation functions were operable. The event constituted operation in a de-

618, graded mode in accordance with Technical Specification 6.9.1.9b.

82-078, 82-065, 82-047, 82-043, 82-040)

SYSTEM CODE [0 9] 8
 CAUSE CODE [B B] 11
 CAUSE SUBCODE [E] 12
 COMPONENT CODE [G] 13
 INSTRUMENT CODE [I N S T R U] 14
 COMP SUBCODE [E] 15
 VALVE SUBCODE [Z] 16
 LER NO. REPORT NUMBER [17]
 EVENT YEAR [8 2] 27
 SEQUENTIAL REPORT NO. [0 9 2] 26
 OCCURRENCE CODE [0 3] 29
 REPORT TYPE [L] 30
 REVISION NO. [0] 33
 ACTION TAKEN: FUTURE ACTION [C] 18
 EFFECT ON PLANT [Z] 19
 SHUTDOWN METHOD [Z] 21
 HOURS [0 0 0 0] 22
 ATTACHMENT SUBMITTED [Y] 23
 NFRD FORM SUB [Y] 24
 PRIME COMP SUPPLIER [A] 25
 COMPONENT MANUFACTURER [L 1 8 5] 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

16 The channel failure resulted from a failed scintillation detector. The detector was

replaced, the channel was satisfactorily tested, and the action statement was

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1 2 terminated.

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FACILITY STATUS		% POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
1	5	H	0 0 0	A	Operator Observation

ACTIVITY		CONTENT		RELEASED		OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
1	6	2	33	2	34	N/A		N/A		N/A	

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	37	Z	38	N/A	

PERSONNEL INJURIES		DESCRIPTION	
NUMBER			
0	0	0	40
		N/A	

1 9		Z		42		N/A	
LOSS OF OR DAMAGE TO FACILITY		TYPE		DESCRIPTION		(43)	

7	8	9	10	N/A			
PUBLICATION							
2	0	44	45	DESCRIPTION		NAC USE ONLY	

NRC USE ONLY

NAME OF PREPARER

R. Frahm

PHC448

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