NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

Line	Field	Value
01	LICENSEE CODE (2)	N J S G S 1
01	LICENSE NUMBER (3)	0 0 - 0 0 0 0 0 - 0 0
01	LICENSE TYPE (4)	4 1 1 1 1
01	CAT (5)	
01	REPORT SOURCE (6)	L
01	DOCKET NUMBER (7)	0 5 0 0 0 2 7 2
01	EVENT DATE (8)	0 6 0 1 8 0
01	REPORT DATE (9)	0 2 0 4 8 1

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During routine surveillance testing of the fire detection instrumentation, the
03 fusible plug for the Battery Room Detectors for both Unit 1 and Unit 2 had melted
04 during the testing, rendering them inoperable. Action Statement 3.3.3.6 was
05 entered at 0700 hours.

SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
A B	D	Z	I N S T R U	E	Z

LER/RO REPORT NUMBER (17)	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 0	—	0 3 0	/	0 3	X	—	1

ACTION TAKEN (18)	FUTURE ACTION (19)	EFFECT ON PLANT (20)	SHUTDOWN METHOD (21)	HOURS (22)	ATTACHMENT SUBMITTED (23)	NPRD-4 FORM SUB. (24)	PRIME COMP. SUPPLIER (25)	COMPONENT MANUFACTURER (26)
A	G	Z	Z	0 0 0 0	Y	Y	L	X 9 9 9

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 A hot air blower was used to raise the temperature of the detector to an alarm
11 condition, but was not removed quickly enough to prevent detector damage. The
12 detectors were replaced and tested satisfactorily, terminating the Action Statement
13 at 2100 hours on June 3, 1980. Design Changes were initiated on September 15, 1980,
14 which will replace the existing detectors with a non-expendable type.

FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
E	1 0 0	N/A	B	Routine Surveillance

ACTIVITY RELEASED (33)	CONTENT OF RELEASE (34)	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
Z	Z	N/A	N/A

PERSONNEL EXPOSURES

NUMBER (37)	TYPE (38)	DESCRIPTION (39)
0 0 0	Z	N/A

PERSONNEL INJURIES

NUMBER (40)	DESCRIPTION (41)
0 0 0	N/A

LOSS OF OR DAMAGE TO FACILITY (43)

TYPE (42)	DESCRIPTION
Z	N/A

PUBLICITY

ISSUED (44)	DESCRIPTION (45)	NRC USE ONLY
N	N/A	

NAME OF PREPARER W. J. Steele PHONE: 609-935-0998

GPO 917-926

8102120080

Report Number: 80-30/03X-1

Report Date: February 4, 1981

Occurrence Date: 6/1/80

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

IDENTIFICATION OF OCCURRENCE:

Failure of Fire Detection Instrumentation

CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 100%

DESCRIPTION OF OCCURRENCE:

During routine surveillance testing of the detectors, it was discovered that the fusible plug in the detectors for Unit 1 and Unit 2 Battery Rooms had melted during the testing. At 0700 hours, the detectors were declared inoperable and Action Statement 3.3.3.6 was entered. With the number of operable fire detection instruments less than required, a fire watch had to be established within one hour to patrol the affected areas at least once per hour IAW Technical Specification 3.3.3.6.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Procedural inadequacy. The surveillance procedures states, "To test a detector, turn the hot air blower on and selector switch to hot. Place the hot air blower near the detector; when it trips, a neon light will flash on the side of the detector. Remove heat immediately or the detector will be damaged. NOTE: The Battery Room's detectors do not have neon lights."

ANALYSIS OF OCCURRENCE:

Since the Battery Room detectors do not have neon lights to indicate when the detector trips, it is possible to overheat and damage the detectors.

CORRECTIVE ACTION:

Maintenance personnel replaced the damaged detectors with the type that has the neon lights. On September 15, 1980, the Station Safety Supervisor initiated two Design Change Requests (1SC428 and 2SC429) which will replace the existing detectors with the Fenwall DTC 200 PB Type. These Fenwall detectors are a non-expendable type detector.

FAILURE DATA:

Starr Sprinkler Corporation
Spot Fire Lowecator
Model EPB

Prepared By W. J. Steele

SORC Meeting No. 81-04

Manager - Salem Generating Station

(26)

GPO 917-926