Report Number:

78-71/01T

Report Date:

11/01/78

Occurrence Date:

10/23/78

Facility:

Salem Generating Station

Public Service Electric & Gas Company Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

No. 1 & 2 Fire Pumps Operated in Manual

CONDITIONS PRIOR TO OCCURRENCE:

Operational Mode 5

DESCRIPTION OF OCCURRENCE:

At 1949 hours, No. 3 station air compressor tripped on loss of cooling water flow. No. 1 & 2 emergency air compressors started to supply control air to both A&B vital headers. No. 1&2 station air compressors were attempted to start but also tripped on low coolant flow. Investigation traced the loss of fresh water to the demineralizer plant. At 2020 hours, service air pressure had dropped low enough to allow air operated fire protection deluge valves to open. No. 1&2 fire pumps were switched to manual operation and Technical Specification 3.7.10.1.c action b was initiated. An operator was dispatched to the fire pump house to secure the pressure maintenance pump and operate the fire pumps in manual as needed. A roving fire watch was initiated throughout the station. At 2015 hours, No. 3 air compressor was restarted. At 2100 hours, the fire pumps were returned to automatic operation and the action statement for Technical Specification 3.7.10.1.c was terminated.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was personnel error. The air compressors were being supplied cooling water from the fresh water system while the normal service water cooling to the turbine building area was secured. The demineralizer plant operator commenced drawing fresh water from the header in order to provide pure water makeup. This caused a loss of cooling flow to the station air compressors.

ANALYSIS OF OCCURRENCE:

Action Statement b for Technical Specification 3.7.10.1 requires that with both fire suppression water systems inoperable, establish a backup fire suppression water system within 24 hours and submit a special report in accordance with Specification 6.9.2 by telephone within 24 hours, confirmed by telegraph, mailgram, or facsimile transmission no later than the first working day following the event

and in writing within 14 days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status. During the occurrence, the automatic fire detection system remained in normal operation and a roving fire watch was established around the station. An operator was stationed at the fire pump house for manual operation of the fire pumps. The fire pumps were returned to automatic operation within 40 minutes and the action statement was terminated.

CORRECTIVE ACTION:

This is considered an isolated incident. Corrective action will be to caution Operations and Performance Department personnel of the need to keep each other informed of plant conditions or operations which affect other departments.

FAILURE DATA:

N/A

Prepared by A. W. Kapple	Apolidun &
	Manager - Salem Generating Station
SORC Meeting No. 65-78	•

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(/_//)	LICENSEE EVENT REPORT	
	CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)	
0 1	N J S G S 1 2 0 0 - 0 0 0 0 - 0 0 3 4 1 1 1 1 1 4 5 5 CAT 58	
O 1	SOURCE L 6 0 5 0 0 0 2 7 2 7 1 0 2 3 7 8 3 1 1 0 1 7 8 9 SOURCE 50 51 DOCKET NUMBER 58 69 EVENT DATE 74 75 REPORT DATE 30	
0 2	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) During Mode 5 operation at 2020 hours, No. 1&2 fire pumps were put in manual due	
0 3	to low air pressure which caused actuation of air operated deluge valves. Emergency	
0 4	air compressors started to supply both A&B vital control air headers. Station air	
0 5	compressors could not be started due to low cooling water flow. T/S 3.7.10.1	
0 6	action b was implemented. An operator was stationed at the fire house for manual	
0 7	operation of the fire pumps and a roving fire watch was initiated. Automatic	
0 8	operation was resumed at 2100 hours. This is the first occurrence of this type.	
0 9	CODE SUBCODE COMPONENT CODE SUBCODE SU	
	LER RO EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE REPORT TYPE NC. ODE TYPE OCCURRENCE REPORT NC. OCCURRENCE REPORT TYPE NC. OCCU	
	ACTION FUTURE OFFECT SHUTDOWN HOURS 22 ATTACHMENT NPRD-4 PRIME COMP. COMPONENT TAKEN ACTION ON PLANT METHOD HOURS 22 ATTACHMENT NPRD-4 PRIME COMP. COMPONENT MANUFACTURER H 18 Z 19 Z 20 Z 21 0 0 0 0 Y 23 N 24 Z 25 9 9 9 9 9 26 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)	
1 0	Station air compressors were being cooled by fresh water. The demineralizer	
1 1	operator drew fresh water from the header to make pure water. This caused a loss	
1 2	of fresh water to the compressors. Personnel error is the cause of this incident.	
1 3	Operations and Performance personnel will be cautioned to keep others informed	
1 4	of operations affecting the other department.	
	STATUS SPOWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 DISCOV	
1 6	CTIVITY CONTENT SLEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36) N/A N/A	
/. .	9 10 11 24 45 PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39) 1 0 0 0 (37) Z (38) N/A	
	9 PERSONNE: INJURIES 30 NUMBER DESCRIPTION 4:)	
1 3	0 0 0 40 N/A so	
1 9	LOSS OF OR DAMAGE TO FACILITY 43 TYPE DESCRIPTION N/A	
	9 10 PUBLICITY ISSUED DESCRIPTION 45 NRC USE ONLY	
2 0 7 8	Z (44) N/A 58 69 20	
•	NAME OF PREPARER A. W. Kapple PHONE: (609) 365-7000 Salem Ext. 628	