Report Number:	79-43/01T
Report Date:	6/05/79
Occurrence Date:	5/22/79
Facility:	Salem Generating Station Public Service Electric & Gas Company Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Auxiliary Feedwater Pumps Discharge Valves Closed during Surveillance Testing

CONDITIONS PRIOR TO OCCURRENCE:

Refueling Mode 6

DESCRIPTION OF OCCURRENCE:

In reviewing the surveillance procedure which demonstrates the operability of No. 13 (23) steam driven auxiliary feedwater pump during operational modes 1, 2, and 3 as required by Technical Specification 3.7.1.2, it was discovered the procedure called for the valve demand to be reduced to 0% for the motor driven feedwater pumps discharge control valves (AF-21's) in addition to the closure of the steam driven feedwater pump discharge control valves (AF-11's).

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was a deficiency in the surveillance procedure. The AF-21 and AF-11 valves were originally required to be shut to insure a single test flow path and to insure no auxiliary feedwater flow to the steam generator during the test evolution. However, the AF-21's are normally closed and open to a preset valve demand only when the associated motor driven pump develops the required discharge pressure.

ANALYSIS OF OCCURRENCE:

Technical Specification 3.7.1.2 requires at least three independent steam generator auxiliary feedwater pumps and associated flow paths operable when in modes 1, 2 or 3, with two feedwater pumps capable of being powered from separate vital busses and one feedwater pump capable of being powered from an operable steam supply system. With one feedwater pump inoperable, restore at least three auxiliary feedwater pumps to operable status within 72 hours or be in hot shutdown within the next 12 hours. The average duration of the pump test has been 10 minutes after which normal auxiliary feedwater system lineup is verified. The ECCS automatic start of the motor driven feedwater pumps is not disabled nor is remote control of the AF-21 valves taken from the control room reactor operator during the steam driven pump test. 2255 010

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CORRECTIVE ACTION:

To insure full operability of the motor driven auxiliary feedwater pumps during the surveillance evolution, an on-the-spot change has been initiated to leave the demand signal for the AF-21 valves at the normal value. Also, the AF-1, 3, 10, 20, 22, 23 and 86 manually operated valves normal position has been changed from open to locked open.

A further review of the surveillance procedures found no other procedure deficiencies. No further corrective action is required.

FAILURE DATA:

Not Applicable

Prepared	By .	Α.	W.	Kapple	
SORC Mee	ting	No.		43-79	

Manager - Salen Generating Station

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U. S. NUCLEAN REGULAIUNT CUMINISSIUN NRC FORM 366 (7.77) LICENSEE EVENT REPORT (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) \Box CONTROL BLOCK: (4) (5) (2) SGS1 0 1 NJ LICENSE NUMBER LICENSEE CODE CON'T 7 9 3 6 6 0 5 7 9 2001512 000027 2 REPORT 0 5 L (6) 0 1 REPORT DATE SOURCE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) During review of the surveillance procedure which demonstrates operability of No. 13 0 2 (23) Aux. Feed Pump as required by T/S 3.7.1.2, it was discovered the procedure called 0 3 for the valve demand to be reduced to 0% for the motor driven No. 11 and 12 Aux. Feed 0 4 Pump discharge control valves and the closure of No. 13 Aux. Feed Pump discharge con-0 5 trol valves. T/S 3.7.1.2 requires three Aux. Feed Pumps available in Modes 1, 2, and 0 6 3. The auto start of No. 11 and 12 Aux. Feed Pumps was not disabled nor was control 0 7 of No. 11 and 12 discharge taken from the control room operator. This is the first BIC 9 occurrence of this CAUSE. COMP. SUBCOO CAUSE COMPONENT CODE CODE Z | (15 (16 Z Z Z (14 2 2 D (12 Z (13) Z 7 H (11 0 9 18 12 REVISION OCCURRENCE CODE REPORT SEQUENTIAL NC. YPE REPORT NO EVENT YEAR LEA AO 0 T 0 1 0 4 1 3 9 REPORT 31 32 NUMBER 28 20 26 COMPONENT PRIME COMP NPRO-ATTACHMENT SUBMITTED MANUFACTURER HOURS 22 FFECT METHOD ACTION FORMSUB TAKEN 919 9 (26) 2 25 X 23 N 24 2 1 01 0 0 0 Z (21 (20 Z (19 13) 47 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27 The deficient procedure was originally intended to insure a single test flow path and 1 0 linsure no auxiliary feed flow to the S/G's during the test. An on-the-spot change has 1 1 1 been initiated to leave the motor driven Auxiliary Feed Pump discharge valve demand 1 2 signals at the normal value and change the normal position of the AF-1. 3, 10, 20, 22, 1 3 23 and 86 manual valves from open to locked open. 1 4 30 METHOD OF DISCOVERY DESCRIPTION (32) (30) FACILIT'S OTHER STATUS S POWER Special Surveillance Review C (31) 0 0 29 A (28) N/A 1 5 0 80 13 ACTIVITY CONTENT LOCATION OF RELEASE 36 AMOUNT OF ACTIVITY (35 OF RELEASE RELEASED N/A N/A 1 6 80 PERSONNEL EXPOSURES DESCRIPTION (39 TYPE NUMBER 0 37 Z 38 N/A 7 0 0 30 PERSONNEL INJURIES DESCRIPTION (41 NUMBER 0 0 0 0 N/A 3 1125 30 OSS OF OR DAMAGE TO FACILITY (43 DESCRIPTION N/A Z (42) 9 30 NRC USE ONLY PUBLICITY DESCRIPTION 45 SSUED 111111111 44 N/A 0 69 80 58 (609) 365-7000 Salen A. W. Kapple PHONE:-678 NAME OF PREPARER .