

Report Number: 78-62/03L
Report Date: 10/3/78
Occurrence Date: 9/13/78
Facility: Salem Generating Station
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

No. 12 Reactor Coolant Flow Channel 2 Inoperable

CONDITIONS PRIOR TO OCCURRENCE:

Operational Mode 1, Reactor Power 100%

DESCRIPTION OF OCCURRENCE:

At 1100 hours, the Control Room Operator observed a loss of indication on Channel 2 Reactor Coolant Flow. A routinely scheduled channel functional test which does not check flow indication had been satisfactorily completed at 1027 hours. Performance Department was notified and Action Statement No. 7 for Technical Specification 3.3.1.1.1 was implemented. At 1230 hours, repairs had been completed and the channel was returned to service. The Action Statement was terminated. All redundant channels were available during this occurrence.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was loss of output from the signal isolator which supplies flow indication. The cause of the signal isolator failure is under investigation and is being followed on O.I. 752.

ANALYSIS OF OCCURRENCE:

Technical Specification 3.3.1.1.1 Action Statement No. 7 states that with the number of operational channels one less than the total number of channels, startup and/or power operation may proceed until performance of the next required channel functional test provided the operational channel is placed in the tripped condition within one hour. No. 12 RC Flow Channel 2 was placed in the tripped condition and remained tripped until the channel was declared operational.

78 10 11 00 86

CORRECTIVE ACTION:

The failed signal isolator was replaced with a unit taken from spares. The spare isolator was bench tested prior to installation into the protective system. Flow indication was compared with other channels and found satisfactory. The failed signal isolator is under investigation.

FAILURE DATA:

Signal Isolator Model 110

Manufacturer: Westinghouse Electric Corporation
Hagan/Computer System Division

Prepared by A. W. Kapple

SORC Meeting No. 58-78

H. J. [Signature]
Manager - Salem Generating Station

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 - 0 0 3 4 1 1 1 1 4 _____ 5
7 8 9 14 15 25 26 57 CAT 58

CON'T
0 1 REPORT SOURCE L 6 0 5 0 0 0 2 7 2 7 0 9 1 3 7 8 8 1 0 0 3 7 8 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During normal operation, at 1100 hours, the Reactor Operator noticed
0 3 No. 12 Reactor Coolant Flow Channel 2 was not indicating. T/S 3.3.1.1.1
0 4 Action Statement 7 was implemented. Performance Department placed the
0 5 channel in the tripped condition and repaired. All redundant channels
0 6 were operational. At 1230 hours, #12 RC Flow Ch 2 was declared opera-
0 7 tional and the Action Statement was terminated. This is the sixth
0 8 occurrence of this type.

0 9 SYSTEM CODE I D 11 CAUSE CODE E 12 CAUSE SUBCODE E 13 COMPONENT CODE I N S T R U 14 COMP. SUBCODE X 15 VALVE SUBCODE Z 16
7 8 9 10 11 12 13 18 19 20
17 LER/RO REPORT NUMBER 7 8 21 22 23 24 26 27 28 29 30 31 32 REVISION NO. 0
ACTION TAKEN C 18 FUTURE ACTION Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPRA FORM SUB. Y 24 PRIME COMP. SUPPLIER N 25 COMPONENT MANUFACTURER H 0 2 0 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause of this occurrence was failure of a Hagan Controls Signal
1 1 Isolator. The cause of the isolator failure is under investigation.
1 2 The signal isolator was replaced and an operational test confirmed
1 3 operability.

1 5 FACILITY STATUS E 28 % POWER 1 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY a 31 DISCOVERY DESCRIPTION Operator Action 32
7 8 9 10 11 12 13 44 45 46 80

1 6 ACTIVITY CONTENT Z 33 RELEASED OF RELEASE Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36
7 8 9 10 11 12 13 44 45 80

1 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39
7 8 9 10 11 12 13 80

1 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41
7 8 9 10 11 12 13 80

1 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43
7 8 9 10 11 12 13 80

2 0 PUBLICITY ISSUED Z 44 DESCRIPTION N/A 45
7 8 9 10 11 12 13 80

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CPD 81-916