

Report Number: 79-51/03L
Report Date: 8/10/79
Occurrence Date: 7/15/79
Facility: Salem Generating Station
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 06038

IDENTIFICATION OF OCCURRENCE:

Initial Containment Type C Leak Rate Test Results

CONDITIONS PRIOR TO OCCURRENCE:

Operational Mode 6

DESCRIPTION OF OCCURRENCE:

While conducting scheduled leak rate testing of Type C components, initial test results for eight containment isolation valves showed a leakage above the 2000 sccm range of the volumetric test equipment. Since a positive leak rate could not be obtained, it was not possible to verify that the total containment leakage volume did not exceed the value assumed in the accident analysis at the peak accident pressure.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence is normal degradation and buildup in the valves during plant operation.

ANALYSIS OF OCCURRENCE:

Technical Specification 3.6.1.2 requires the measured combined leakage rate for all penetrations and valves subject to type B and C tests to be less than 0.60 La prior to increasing the Reactor Coolant System temperature above 200°F. The measured overall leakage rate limit of 0.60 La during performance of periodic tests is an added conservatism to account for possible degradation of the containment leakage barriers between leakage tests. Valves with excessive leak rates have been repaired with the plant in Mode 5.

CORRECTIVE ACTION:

Initial test leakage for 12 and 14GB4 steam generator blowdown valves was found to be through 12 and 14GB3 manual isolation valves at the steam generator. Restroking the valve corrected the leakage problem on 1SS49, 1SS107, 13GB4 and 1PR18. Replacement of discs, springs and bonnet gaskets corrected the leakage on 1NT26 and 1NT24. Retests showed valve leakage within allowable limits.

FAILURE DATA:

Not Applicable

Prepared by A. W. Kapple

SORC Meeting No. 63-79

H. J. ...
Manager - Salem Generating Station

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LICENSEE EVENT REPORT

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

01 NJSGS 12 000-00000000-0000341111145
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CONT

01

REPORT
SOURCE

L6 050000272707157980810799

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During the refueling outage, scheduled Type C leakage tests for 8 valves showed
03 initial leak rate greater than the range of the volumetric test equipment. Technical
04 Specification 3.6.1.2 requires the type B and C leak rates to be less than 0.06 La
05 prior to increasing reactor coolant temperature above 200°F. The limit of 0.06 La
06 is an added conservatism to account for possible degradation of the containment
07 leakage barriers between leakage tests. This is the first occurrence of this type.

08

7 8 9

SYSTEM
CODE

SD11

CAUSE
CODE

E12

CAUSE
SUBCODE

X13

COMPONENT CODE

VALVE X14

COMP
SUBCODE

X15

VALVE
SUBCODE

X16

LER-RO
REPORT
NUMBER

79

EVENT YEAR

79

SEQUENTIAL
REPORT NO.

051

OCCURRENCE
CODE

03

REPORT
TYPE

L

REVISION
NO.

0

ACTION
TAKEN

A18

FUTURE
ACTION

Z19

EFFECT
ON PLANT

Z20

SHUTDOWN
METHOD

Z21

HOURS

0000

ATTACHMENT
SUBMITTED

Y23

NPRO-4
FORM SUB

Y24

PRIME COMP
SUPPLIER

L25

COMPONENT
MANUFACTURER

X99926

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of this occurrence is normal degradation and buildup in the valves
11 during plant operation. Restroking and internals replacement repaired degraded
12 valves. Retests verified leakage rates within allowable limits. The eight valves
13 are various types of containment isolation valves.

14
15 FACILITY STATUS 28 H 000029 N/A 30 OTHER STATUS 31 Inservice Inspection 32 DISCOVERY DESCRIPTION
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

16 Z33 Z34 N/A 35 AMOUNT OF ACTIVITY 36 LOCATION OF RELEASE 37
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

17 00037 Z38 N/A 39 PERSONNEL EXPOSURES
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

18 00040 N/A 41 PERSONNEL INJURIES
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

19 Z42 N/A 43 LOSS OF OR DAMAGE TO FACILITY
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

20 Z44 N/A 45 PUBLICITY
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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