

LICENSEE EVENT REPORT

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

01 N T S G S I 02 0 0 0 0 0 0 0 0 0 0 0 0 0 0 03 4 1 1 1 1 04 _____ 05
7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 58

CON'T
01 R 06 0 5 0 0 0 2 7 2 07 0 5 3 1 7 9 08 0 6 3 0 7 9 09
7 8 9 REPORT SOURCE 80 81 DOCKET NUMBER 88 89 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 During the refueling core shuffle, 6 of the existing 53
03 control rods were found to have broken spider fingers af-
04 fecting 8 control rods. A preliminary evaluation of the
05 affected rodlets reactivity worth showed that the shutdown
06 margin, though reduced, was sufficient to meet Technical
07 Specification limits. This is the first occurrence of this
08 type.

09 R B 11 X 12 Z 13 C O N R O D 14 Z 15 Z 16
7 8 9 SYSTEM CODE 10 CAUSE CODE 11 CAUSE SUBCODE 12 COMPONENT CODE 13 COMP. SUBCODE 14 VALVE SUBCODE 15

17 1 7 9 21 22 0 4 7 26 0 1 3 29 30 31 32
17 LER/RO REPORT NUMBER 21 EVENT YEAR 22 FUTURE ACTION 23 EFFECT ON PLANT 24 SHUTDOWN METHOD 25 HOURS 26 ATTACHMENT SUBMITTED 27 NPRD-4 FORM SUB. 28 PRIME COMP. SUPPLIER 29 COMPONENT MANUFACTURER 30 REVISION NO. 31

18 C 19 Z 20 C 21 Z 22 0 0 9 6 23 Y 24 Y 25 N 26 W 1 2 0
33 ACTION TAKEN 34 FUTURE ACTION 35 EFFECT ON PLANT 36 SHUTDOWN METHOD 37 HOURS 40 ATTACHMENT SUBMITTED 41 NPRD-4 FORM SUB. 42 PRIME COMP. SUPPLIER 43 COMPONENT MANUFACTURER 44 REVISION NO. 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 The cause of this occurrence is under investigation. Based
11 on preliminary reports, 25 control rods have been replaced.
12 Further corrective, if required will be submitted with the
13 cause of the occurrence in a supplemental report.

14 _____
7 8 9

15 H 28 0 0 0 29 N/A 30 A 31 Control Rod Changeout Inspection 32
7 8 9 FACILITY STATUS 10 % POWER 12 OTHER STATUS 13 METHOD OF DISCOVERY 14 DISCOVERY DESCRIPTION 15

16 Z 33 7 34 N/A 35 N/A 36
7 8 9 ACTIVITY CONTENT 10 RELEASED OF RELEASE 11 AMOUNT OF ACTIVITY 12 LOCATION OF RELEASE 13

17 0 0 0 37 N/A 38 N/A 39
7 8 9 PERSONNEL EXPOSURES 10 NUMBER 11 TYPE 12 DESCRIPTION 13

18 0 0 0 40 N/A 41
7 8 9 PERSONNEL INJURIES 10 NUMBER 11 DESCRIPTION 12

19 _____ 42 N/A 43
7 8 9 LOSS OF OR DAMAGE TO FACILITY 10 TYPE 11 DESCRIPTION 12

20 Y 44 N/A _____ 45
7 8 9 PUBLICITY 10 ISSUED 11 DESCRIPTION 12

NAME OF PREPARER A. W. Kapple PHONE (609) 365-7000 Salem Ext 628

7907090277

Report Number: 79-47/03L
Report Date: 6/30/79
Occurrence Date: 5/31/79
Facility: Salem Generating Station
Public Service Electric & Gas Company
Hancocks Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Failed Spider Fingers on Six (6) Control Rods

CONDITIONS PRIOR TO OCCURRENCE:

Operational Mode 6, Refueling

DESCRIPTION OF OCCURRENCE:

During the refueling core shuffle, six (6) of the existing fifty-three (53) control rods were found to have broken spider fingers affecting eight (8) control rodlets.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of the broken spiders is under investigation and will be submitted in a supplemental report.

ANALYSIS OF OCCURRENCE:

The Station Reactor Engineer conducted a preliminary evaluation of reactivity worth of the affected rodlets which showed that the shutdown margin, though reduced, was sufficient to meet Technical Specification limits. Further safety analysis of this occurrence will be included in a supplemental report.

CORRECTIVE ACTION:

Based on preliminary investigation, twenty-five (25) control rods have been replaced. Further corrective action required as a result of the on-going investigation will be submitted in a supplemental report.

FAILURE DATA:

Rod Cluster Control Assembly
Manufacturer: Westinghouse

Prepared by A. W. Kapple

SORC Meeting No. 51-79

H. J. Rodman
Manager - Salem Generating Station