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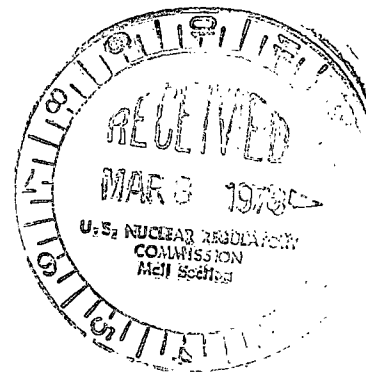
REGULATORY DOCKET FILE COPY

Public Service Electric and Gas Company 80 Park Place Newark, N.J. 07101 Phone 201/622-7000

March 2, 1978

Mr. Boyce H. Grier
Director of USNRC
Office of Inspections and Enforcements
Region 1
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Grier:



LICENSE NO. DPR-70
DOCKET NO. 50-272
REPORTABLE OCCURRENCE 78-08/03L

Pursuant to the requirements of Salem Generating Station Unit No. 1 Technical Specifications, Section 6.9.1.b, we are submitting Licensee Event Report for Reportable Occurrence 78-08/03L. This report is required within thirty (30) days of the occurrence.

Sincerely yours,

F. P. Librizzi
General Manager -
Electric Production

CC: Director, Office of Inspection
and Enforcement (30 copies)
Director, Office of Management
Information and Program Control

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Report Number: 78-08/03L
Report Date: February 23, 1978
Occurrence Date: February 3, 1978
Facility: Salem Generating Station
Public Service Electric & Gas Company
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Inoperable Boron Injection Tank

CONDITIONS PRIOR TO OCCURRENCE:

Operational Mode 1
Reactor Power: 89%

DESCRIPTION OF OCCURRENCE:

At 1520 hours while decreasing reactor power to clean condensate pump strainers, boron samples showed 19,991 ppm boron in the BIT. BAT's showed 20,200 ppm boron. BIT concentration being below the 20,100 ppm boron allowed by Technical Specifications required Action Statement 3.5.4.1 to be implemented. Boric Acid Transfer Pumps were placed in fast speed to increase recirculation flow. At 1608 hours, one batch of boric acid was added to the BAT's and fast recirculation flow continued. BIT sampling continued on a 1/2 hour schedule. At 1700 hours BIT samples showed 21,270 ppm boron and Action Statement 3.5.4.1 was terminated.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

The cause of this occurrence was lack of mixing resulting from low recirculation flow.

ANALYSIS OF OCCURRENCE:

Technical Specification 3.5.4.1 states that with the Boron Injection Tank inoperable, restore the tank to operable status within one hour or be in Hot Standby and borated to a shutdown margin equivalent to 1% $\Delta K/K$ at 200°F within the next six hours; restore the tank to operable status within the next seven days or be in Hot Standby within the next 12 hours. The Boron Injection Tank was returned to operable status in 1 hour 40 minutes. The load reduction was continued until the BIT was within the boron limits.

CORRECTIVE ACTION:

Addition of boric acid to the BAT's and fast speed recirculation flow re-established BIT boron concentration.

A procedural revision will require fast speed recirculation flow to be run one shift per day to provide increased mixing.

FAILURE DATA:

N/A

Prepared by T. L. Spencer

SORC Meeting No. 10-78



Manager - Salem Generating Station

NUCLEAR EVENT REPORT

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 NJ S G S 1 000-000000-000 411111 5
 7 8 9 14 15 25 26 30 57 CAT 58

CON'T

01 REPORT SOURCE L 05000272 020378 022378 9
 7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 During a planned power reduction BIT boron sample showed 19,991 ppm
 03 boron.Action Statement 3.5.4.1 implemented.Fast Speed recirculation
 04 started.One batch boric acid added.BIT samples showed 21,270 ppm boron.
 05 Total inoperable time, 1 hr 40 minutes.This is the third occurrence
 06 of this type.
 07
 08

09 SYSTEM CODE S F 11 CAUSE CODE D 12 CAUSE SUBCODE Z 13 COMPONENT CODE X X X X X X 14 COMP. SUBCODE Z 15 VALVE SUBCODE Z 16
 7 8 9 10 11 12 13 18 19 20
 17 LER NO REPORT NUMBER 7 8 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
 ACTION TAKEN E 18 G 19 FUTURE ACTION B 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 1 22 ATTACHMENT SUBMITTED Y 23 NPRO-4 FORM SUB. N 24 PRIME COMP. SUPPLIER Z 25 COMPONENT MANUFACTURER Z 9 9 9 9 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 The cause of this occurrence was boron stratification caused by
 11 low recirculation flow. A procedure change will require fast speed
 12 recirculation flow to be established for approximately 8 hours per day.
 13
 14

15 FACILITY STATUS F 28 % POWER 0 8 9 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY B 31 DISCOVERY DESCRIPTION Routine Boron Samples 32
 7 8 9 10 11 12 13 44 45 46 80
 16 ACTIVITY CONTENT Z 33 Z 34 AMOUNT OF ACTIVITY N/A 35 LOCATION OF RELEASE N/A 36
 7 8 9 10 11 12 13 44 45 46 80
 17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39
 7 8 9 10 11 12 13 44 45 46 80
 18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41
 7 8 9 10 11 12 13 44 45 46 80
 19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43
 7 8 9 10 11 12 13 44 45 46 80
 20 PUBLICITY ISSUED Z 44 DESCRIPTION N/A 45
 7 8 9 10 11 12 13 44 45 46 80

NAME OF PREPARER T. L. Spencer

PHONE: (609) 365-7000 Salem Ext.