

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 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

(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 3 4 1 1 1 1 4 5  
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

CON'T

0 1 REPORT SOURCE L 6 0 5 0 0 0 2 7 2 7 0 5 1 3 8 3 8 0 6 0 1 8 3 9  
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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 On May 13, 1983, during routine shutdown operation, the Shift Supervisor was notified  
0 3 that approximately 350 gallons of low level radioactive waste had been released to the  
0 4 owner-controlled area. An estimated 131 uCi of activity was involved; the radioactive  
0 5 water was absorbed in the soil. No contamination of plant personnel occurred and no  
0 6 Environmental Technical Specification (ETS) limits were exceeded. The event involved  
0 7 potential environmental impact or public interest in accordance with Environmental  
0 8 Technical Specification 5.6.2.1.  
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 1000 9 SYSTEM CODE W A 11 CAUSE CODE D 12 CAUSE SUBCODE Z 13 COMPONENT CODE V A L V E X 14 COMP. SUBCODE A 15 VALVE SUBCODE H 16  
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 LER NO REPORT NUMBER 8 3 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  
ACTION TAKEN H 18 FUTURE ACTION G 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 22 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. Y 24 PRIME COMP. SUPPLIER A 25 COMPONENT MANUFACTURER F 1 3 0 26  
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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 Investigation revealed that in accordance with past practice, a portable pump was  
1 1 utilized to pump water from the piping penetration area to outside the auxiliary  
1 2 building. Since the last time, the evolution was performed, however, the area had  
1 3 become contaminated. Appropriate radiation control measures were immediately  
1 4 implemented. Procedures to control the use of portable pumps will be implemented.  
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 1001 5 FACILITY STATUS G 28 % POWER 0 0 0 29 OTHER STATUS N/A 30 METHOD OF DISCOVERY A 31 DISCOVERY DESCRIPTION Operational Event 32  
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 1001 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 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 1001 7 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION N/A 39  
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 1001 8 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION N/A 41  
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 1001 9 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION N/A 43  
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 1002 0 PUBLICITY ISSUED N 44 DESCRIPTION 45 8306170338 830601 PDR ADOCK 05000272 S PDR  
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

NAME OF PREPARER R. Frahm

NRC USE ONLY  
68 69 80  
PHONE: (609) 935-6000 Ext. 4309



**PSEG**

Public Service Electric and Gas Company P.O. Box E Hancocks Bridge, New Jersey 08038

Salem Generating Station

June 7, 1983

Mr. J. Allan  
Acting Regional Administrator  
USNRC  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Mr. Allan

LICENSE NO. DPR-70  
DOCKET NO. 50-272  
REPORTABLE OCCURRENCE 83-022/04L

Pursuant to the requirements of Salem Generating Station  
Unit No. 1, Environmental Technical Specifications, Section  
5.6.2.1, we are submitting Licensee Event Report for Reportable  
Occurrence 83-022/04L. This report is required within thirty  
(30) days of the occurrence.

Sincerely yours,

J. M. Zupko, Jr.  
General Manager -  
Salem Operations

RF:ks

CC: Distribution

Report Number: 83-022/04L  
Report Date: 06-01-83  
Occurrence Date: 05-13-83  
Facility: Salem Generating Station Unit 1  
Public Service Electric & Gas Company  
Hancock's Bridge, New Jersey 08038

IDENTIFICATION OF OCCURRENCE:

Uncontrolled Liquid Release to the Owner-Controlled Area.

This report was initiated by Incident Report 83-085.

CONDITIONS PRIOR TO OCCURRENCE:

Mode 5 - Rx Power 0 % - Unit Load 0 MWe.

DESCRIPTION OF OCCURRENCE:

At 0040 hours, May 13, 1983, during routine shutdown operation, the Shift Supervisor received notification that approximately 350 gallons of low level contaminated water had been pumped onto the ground between the Auxiliary Building and the Fuel Handling Building. The area affected was outside the Controlled Access Area but inside the owner-controlled area. The radioactive water was absorbed into the top 4 to 6 inches of soil, and approximately 100 cubic feet of dirt was contaminated. Appropriate measures were immediately taken to control the spill.

Survey of a nearby storm sewer revealed that no contaminated water reached the sewer. An estimated 131 uCi. of activity was released; principal isotopes were Co58, Co60 and Mn54. The maximum dose rate in the vicinity of the spill was approximately 0.05 mR/hr above background. No contamination of plant personnel occurred; Environmental Technical Specification (ETS) limits for the release of liquid or gaseous radioactive effluents to uncontrolled areas were not exceeded at any time.

APPARENT CAUSE OF OCCURRENCE:

Investigation of the incident revealed that the water had been pumped out of the Piping Penetration Area in association with draining of a portion of the Service Water System for maintenance. The draining operation was performed by construction contractor personnel to allow removal and inspection of Valve 12SW57. Draining of the portion of the system involved was accomplished by opening the flanges of Valve 12SW54 and spilling the water to the floor of the surrounding service water piping room. The water flowed into the piping room sump then through the connection to the main sump in the adjacent Piping Penetration Area. A portable pump set up in the main sump pumped the water out of the Auxiliary Building.

APPARENT CAUSE OF OCCURRENCE: (cont'd)

This method had been used previously for draining evolutions of this type. Due apparently to leakage from Residual Heat Removal System valves, the Piping Penetration Area had become contaminated since the last time the method was used. The appropriate radiation protection warning signs and boundaries had been placed, identifying the area as a Contamination Area. Since Valve 12SW57 was inside the area, a Radiation Exposure Permit (REP) had been issued for the job. A sample of the water from the portion of the Service Water System being drained was collected and analyzed, with the results showing the water to be free of contamination.

The fact that the water was passing through the contaminated area was overlooked, however, and water already in the Piping Penetration Area sump was not analyzed. Unexpected water released upon loosening the flanges of Valve 12SW57 spilled on the Piping Penetration Area floor and was squeegeed into the sump, probably increasing the contamination of the sump water. Procedures for pre-planning of radiation work did not specifically address the use of portable pumps, and hence radiation protection coverage of the pumping operation was not included on the REP. The pumping operation was initiated prior to the arrival of the radiation protection personnel providing routine coverage of the job.

ANALYSIS OF OCCURRENCE:

As noted, due to the circumstances of the occurrence and the prompt application of radiation protection measures, the spill was contained within the owner-controlled area. No ETS limits were exceeded and therefore no adverse impact on the environment or health of the public was involved. The occurrence constituted an unusual event that had high public or potential public interest concerning environmental impact from plant operation. The event is reportable in accordance with ETS Section 5.6.2.1.

CORRECTIVE ACTION:

As mentioned, appropriate radiation protection measures were immediately implemented. Personnel who may have had access to the area were interviewed and none were found to have been contaminated. Water samples taken from the adjacent storm sewer were within the limits of 10CFR20 for release to unrestricted areas. No water had flowed through the sewer at any time during the occurrence.

The area involved was decontaminated by removing the contaminated soil. Personnel involved in the incident were counseled concerning the problems involved with pumping the water from a contaminated to a clean area. The occurrence will be also discussed in weekly meetings of personnel of the contractor involved. The event will be utilized as a current example in the station training program to reinforce desirable radiation work practices. A requirement to describe the use of temporary sump pumps in pre-planning will be added to radiation work procedures insuring radiation protection coverage as necessary of



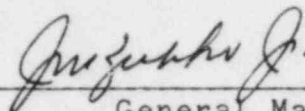
CORRECTIVE ACTION: (cont'd)

such operations. Finally, station procedures will be revised to develop a "pumping permit" program, to provide broader control of the use of temporary pumps.

FAILURE DATA:

Not Applicable

Prepared By R. Frahm



General Manager -  
Salem Operations

SORC Meeting No. 83-074