

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Salem Generating Station - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 1 1										PAGE (3) 1 OF 0 3						
TITLE (4) Rod Control Assemblies - Missed Surveillance																										
EVENT DATE (5)			LER NUMBER (6)					REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)															
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES							DOCKET NUMBER(S)										
0	4	0	1	8	4	8	4	0	0	7	0	0	0	5	0	1	8	4	0 5 0 0 0 0							
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																								
1		20.402(b)					20.406(e)					50.73(a)(2)(iv)					73.71(b)									
POWER LEVEL (10)		20.406(a)(1)(i)					50.36(e)(1)					50.73(a)(2)(v)					73.71(e)									
0 9 3		20.406(a)(1)(ii)					50.36(e)(2)					50.73(a)(2)(vi)					OTHER (Specify in Abstract below and in Text, NRC Form 306A)									
		20.406(a)(1)(iii)					50.73(a)(2)(i)					50.73(a)(2)(viii)(A)														
		20.406(a)(1)(iv)					50.73(a)(2)(ii)					50.73(a)(2)(viii)(B)														
		20.406(a)(1)(v)					50.73(a)(2)(iii)					50.73(a)(2)(x)														
LICENSEE CONTACT FOR THIS LER (12)																										
NAME J. L. Rupp										TELEPHONE NUMBER AREA CODE 6 0 9 3 3 9 - 4 3 0 9																
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																										
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS																
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)					MONTH DAY YEAR											
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO																
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																										
<p>On April 1, 1984, while performing routine surveillance on the rod control assemblies, it was discovered that four rods were missing from the surveillance check-off sheet. Due to a typographical error, they had been inadvertently omitted from the check-off sheet when the surveillance procedure was revised for the two year review. The surveillance requires that each full length rod (which is not fully inserted in the core) be verified operable by movement, at least once per thirty-one days. The surveillance was not performed on these rods on six separate occasions since July, 1983. The rods omitted from the check-off sheet were located in the two groups within Control Bank "B" (Rods 1B3 and 1B4 from group 1, and 2B3 and 2B4 from group 2). The remaining rods in these groups were verified to be operable, and it is highly unlikely that the omitted rods could have been inoperable and out of alignment without being observed by the operator performing the surveillance. The surveillance was satisfactorily performed on these rods when the omission was discovered; and, an on-the-spot change was made to the surveillance procedure to include the missing control rods on the check-off sheet. This occurrence involved no undue risk to the health or safety of the public. The occurrence is reportable in accordance with the Code of Federal Regulations, 10CFR 50.73 (a)(2)(i)(B).</p>																										
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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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### PLANT AND SYSTEM IDENTIFICATION:

Westinghouse - Pressurized Water Reactor

Energy Industry Identification System (EIIS) codes are indentified in the text as [XX].

### IDENTIFICATION OF OCCURRENCE:

Rod Control Assemblies - Missed Surveillance

Event Date: 04/01/84

Report Date: 05/01/84

This report was initiated by Incident Report No. 84-048

### CONDITIONS PRIOR TO OCCURRENCE:

Mode 1 - Rx Power 093 % - Unit Load 1040 MWe

### DESCRIPTION OF OCCURRENCE:

On April 1, 1984, during the performance of routine surveillance, in accordance with Surveillance Procedure SP(O)4.1.3.1.2 (Reactivity Control System - Rod Control Assemblies), it was discovered that four (4) control rods were not listed on Check-off Sheet 1-2 of the Surveillance Procedure. The control rods missing from the sheet were from Control Bank "B"; Rods 1B3 and 1B4 from Group 1, and Rods 2B3 and 2B4 from Group 2.

Technical Specification Surveillance 4.1.3.1.2 requires:

That each full length rod not fully inserted in the core shall be determined to be operable by movement of at least ten (10) steps in any one direction, at least once per thirty-one (31) days.

The Individual Rod Position Indication (IRPI) and the step counter readings were taken at the time of discovery; and, the surveillance was satisfactorily completed. Investigation revealed that the readings for these four (4) rods were not taken on six (6) separate occasions since July, 1983; specifically, July, August, September and October of 1983, and February and March of 1984.

### APPARENT CAUSE OF OCCURRENCE:

Due to a typographical error, the four control rods were omitted from the check-off sheet when the procedure was revised for the two year review. The revised procedure was used for the first time in January, 1983. Personnel performing the surveillance at that time

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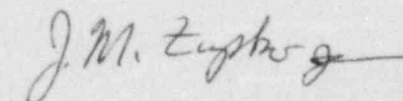
(January, 1983) apparently observed the omission, because the missing control rods were hand written on the check-off sheet. Due to oversight, an on-the-spot change was not issued when the omission was found. The surveillance was not required during the periods of February through June of 1983, and November 1983 through January 1984, because the unit was shutdown at those times.

### ANALYSIS OF OCCURRENCE:

The surveillance exercises the rod drive mechanisms and verifies operability of the control rods. This is done by stepping each group of rods ten (10) steps, and verifying that the IRPI versus the step counter (actual rod position versus demand position) agree. The control rods, which were inadvertently left off of the check-off sheet, are located in two (2) independent groups within Control Bank "B". Although these rods were not documented as operational, it is highly unlikely that they could have been out of position without being observed by the operators performing the surveillance. The remaining control rods in both groups were included in the procedure, and were verified (and documented) to be operational during the required surveillance periods. The rods in Control Bank "B" are normally fully withdrawn during power operation. The rods are verified withdrawn during unit startup. The only time that the rods in question are not fully withdrawn is during this surveillance, and during plant shutdown. Control rod position is verified (and documented) to be within twelve (12) steps of the group demand position every four (4) hours. It is reasonable to assume that since the rods which were recorded were satisfactory, that all rods within the groups moved the same number of steps. Had a failure occurred in the rod control system, which would have prevented rod motion, a rod urgent failure alarm would have been received on the control console and on the overhead annunciator in the control room. This occurrence involved no undue risk to the health or safety of the public. Due to the missed surveillance, the occurrence is reportable in accordance with the Code of Federal Regulations, 10CFR 50.73(a)(2)(i)(B).

### CORRECTIVE ACTION:

On April 1, 1984, when the omission was discovered, the surveillance was satisfactorily completed on all control rods. An on-the-spot change was made to the surveillance procedure to include the missing control rods on the check-off sheet.



General Manager-  
Salem Operations

JLR:tms

SORC Mtg 84-049



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

Salem Generating Station

May 1, 1984

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Dear Sir:

SALEM GENERATING STATION  
LICENSE NO. DPR-75  
DOCKET NO. 50-311  
UNIT NO. 2  
LICENSEE EVENT REPORT 84-007-00

This Licensee Event Report is being submitted pursuant to the requirements of 10CFR 50.73(a)(2)(i)(B). This report is required within thirty (30) days of discovery.

Sincerely yours,

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

JR:k11742

CC: Distribution

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