

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Surry Power Station, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 2 8 10										PAGE (3) 1 OF 0 3				
TITLE (4) Low Chemical Addition Tank (CAT) Level																								
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	6	0	9	8	5	8	5	0	1	2	0	0	0	7	0	5	8	5	0 5 0 0 0					
OPERATING MODE (9) N			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																					
POWER LEVEL (10) 1 1 0 10		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)										
		20.405(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)										
		20.405(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)										
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)														
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)														
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)														
LICENSEE CONTACT FOR THIS LER (12)																								
NAME R. F. Saunders, Station Manager										TELEPHONE NUMBER 8 10 4 3 15 1 7 1- 13 1 1 8 4														
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																								
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPRDS														
X	Q	E	H	Q	V	L	2	0	0	Y														
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR										
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO														

ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single-space typewritten lines) (16)

With the unit at 100% power and periodic testing being performed on the refueling water chemical addition tank (CAT) discharge valves, the control room operator observed the CAT level to decrease. Prior to this, the control room operator had cycled CAT discharge valve MOV-CS-102B and placed the valve in the closed position. During this event, the CAT reached a minimum level of 92%.

The reduced CAT level was caused when MOV-CS-102B re-opened following remote manual closure. A failed closed contact caused the motor operated valve to re-open. The flow path was isolated and the failed contacts were replaced. Later, the Unit 1 CAT was re-filled to the required level.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

FACILITY NAME (1) Surry Power Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 8 0 8 5 -	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0 1 2	- 0 0	0 2	OF	0 3	

TEXT (If more space is required, use additional NRC Form 366A's) (17)

LOW CHEMICAL ADDITION TANK LEVEL1. Description of the Event

With the unit at 100% power and periodic testing being performed on the refueling water chemical addition tank (CAT) discharge valves, the control room operator observed the CAT level to decrease. Prior to this, the control room operator had cycled CAT Discharge Valve MOV-CS-102B and placed the valve in the closed position. During this event, the CAT reached a minimum level of 92%. This is 4.5% less than the technical specification limit and is reportable in accordance with T.S.6.6.2.b.(2).

2. Probable Consequences

The containment spray system is an engineered safeguards system comprised of spray rings, pumps, valves, tanks and inter-connected piping. The chemical addition subsystem supplies sodium hydroxide (NaOH) from the chemical addition tank to both containment spray pump suction lines. The purpose of the NaOH solution is:

- 1) For ultimate sump pH (long term corrosion control and retention of iodine).
- 2) To enhance the spray removal of radioactive iodine from the containment atmosphere, thus reducing the concentration of airborne fission products available for leakage.

Since the reduced CAT volume had been redistributed within the containment spray system, i.e. Refueling Water Storage Tank, the ultimate sump pH and radioactive iodine removal capability remained unchanged. The health and safety of the public were not affected.

3. Cause

The reduced CAT level was caused when MOV-CS-102B immediately re-opened following closure from the control room. An operator performing periodic testing released the valve control switch upon receiving closed indication and a failed contact in the motor controller caused the motor operated valve to re-open.

4. Immediate Corrective Action

The isolation valve (1-CS-43) for MOV-CS-102B was closed thereby terminating the decreasing CAT level.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) Surry Power Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 8 0 8 5 - 0 1 2 - 0 0	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
					0 3	OF	0 3

TEXT (If more space is required, use additional NRC Form 366A's) (17)

LOW CHEMICAL ADDITION TANK LEVEL5. Subsequent Corrective Action

The Unit 1 CAT was refilled from Unit 2 CAT and proper volume and chemistry were confirmed. The failed contact was replaced and the valve cycled satisfactorily.

6. Action Taken to Prevent Recurrence

None required.

7. Generic Implication

None.



VIRGINIA POWER

Surry Power Station
P. O. Box 315
Surry, Virginia 23883

July 5, 1985

U.S. Nuclear Regulatory Commission
Document Control Desk
016 Phillips Building
Washington, D. C. 20555

Serial No: 85-016
Docket No: 50-280
License No: DPR-32

Gentlemen:

Pursuant to Surry Power Station Technical Specifications, Virginia Power hereby submits the following Licensee Event Report for Surry Unit 1.

REPORT NUMBER

85-012-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be reviewed by Safety Evaluation and Control.

Very truly yours,

H L Miller, ASST
STN
MGR
R. F. Saunders
for Station Manager

Enclosure

cc: Dr. J. Nelson Grace
Regional Administrator
Suite 2900
101 Marietta Street, NW
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11