

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>Surry Power Station, Unit 2</b>	DOCKET NUMBER (2) <b>0 5 0 0 0 2 8 1 1</b>	PAGE (3) <b>1 OF 0 3</b>
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TITLE (4)  
**Commencement of Shutdown Due To Rod Control Circuitry Failure**

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	2 6	8 8 8 8	8 8 8 8	0 1 5	0 0	0 7	1 8	8 8			0 5 0 0 0
											0 5 0 0 0

OPERATING MODE (9) <b>N</b>	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																	
POWER LEVEL (10) <b>1 1 0 0</b>	20.402(b)			20.405(a)(1)(i)			20.405(a)(1)(ii)			20.405(a)(1)(iii)			20.405(a)(1)(iv)			20.405(a)(1)(v)		
	20.405(a)(1)(i)			20.405(a)(1)(ii)			20.405(a)(1)(iii)			20.405(a)(1)(iv)			20.405(a)(1)(v)			20.405(a)(1)(vi)		
	20.405(a)(1)(i)			20.405(a)(1)(ii)			20.405(a)(1)(iii)			20.405(a)(1)(iv)			20.405(a)(1)(v)			20.405(a)(1)(vi)		
	20.405(a)(1)(i)			20.405(a)(1)(ii)			20.405(a)(1)(iii)			20.405(a)(1)(iv)			20.405(a)(1)(v)			20.405(a)(1)(vi)		
	20.405(a)(1)(i)			20.405(a)(1)(ii)			20.405(a)(1)(iii)			20.405(a)(1)(iv)			20.405(a)(1)(v)			20.405(a)(1)(vi)		
	20.405(c)			50.38(c)(1)			50.38(c)(2)			50.73(a)(2)(i)			50.73(a)(2)(ii)			50.73(a)(2)(iii)		
	50.73(a)(2)(iv)			50.73(a)(2)(v)			50.73(a)(2)(vi)			50.73(a)(2)(vii)(A)			50.73(a)(2)(vii)(B)			50.73(a)(2)(viii)		
	73.71(b)			73.71(c)			OTHER (Specify in Abstract below and in Text, NRC Form 366A)											

LICENSEE CONTACT FOR THIS LER (12)

NAME <b>D. L. Benson, Station Manager</b>	TELEPHONE NUMBER AREA CODE: <b>8 1 0 4</b> NUMBER: <b>3 1 5 7 1 - 3 1 1 8 4</b>
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	A A		W 1 2 0	N					
X	A A	F U	S 1 5 6	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On June 26, 1988 at 2300 hours, with Unit 2 at 100% power, the "Rod Urgent Failure" annunciator was activated in the control room. Since manual and automatic movement of the rods {EIIS-ROD} is precluded by an urgent failure (manual and automatic trips are not affected), the rods were declared inoperable and Technical Specification 3.12 was entered. In this limiting condition for operation, two hours are allowed to make repairs to the system; if the system is not repaired within two hours, a ramp to hot shutdown must be commenced. At 0100 hours on June 27, 1988, a ramp to hot shutdown was initiated since repairs to the rod control system had not been completed. At this time, a "Notification Of An Unusual Event" was declared in compliance with the station emergency plan. Repairs were made to the system consisting of replacement of a circuit card and a fuse. At 0326 hours, the rod control system was tested satisfactorily and the "Notification Of An Unusual Event" was terminated. This event is reportable pursuant to 10CFR50.73(a)(2)(i).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8   8	-   0   1   5	-   0   0	0   2	OF	0   3

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

1.0 Description of the Event

On June 26, 1988 at 2300 hours, with Unit 2 at 100% power, the "Rod Urgent Failure" annunciator was activated in the control room. Since manual and automatic movement of the rods {EIIS-ROD} is precluded by an urgent failure (manual and automatic trips are not affected), the rods were declared inoperable and Technical Specification 3.12 was entered. In this limiting condition for operation, two hours are allowed to make repairs to the system; if the system is not repaired within two hours, a ramp to hot shutdown must be commenced. At 0100 hours on June 27, 1988, a ramp to hot shutdown was initiated since repairs to the rod control system had not been completed. At this time, a "Notification Of An Unusual Event" was declared in compliance with the station emergency plan. Repairs were made to the system consisting of replacement of a circuit card and a fuse. At 0326 hours, the rod control system was tested satisfactorily and the "Notification Of An Unusual Event" was terminated. This event is reportable pursuant to 10CFR50.73(a)(2)(i).

2.0 Safety Consequences and Implications

The rod control urgent failure precluded only manual and automatic rod movement. Throughout the event, the capability for both manual and automatic reactor trip was maintained. Therefore, the health and safety of the public were not affected.

3.0 Cause

A failed circuit card (capacitor to circuit card soldered junction failure) and blown fuse resulted in the rod control urgent failure alarm.

4.0 Immediate Corrective Action(s)

The failed circuit card and blown fuse were replaced. The rod control system was tested satisfactorily.

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

5.0 Additional Corrective Action(s)

The failed circuit card will be examined and repaired by the vendor.

6.0 Action(s) Taken to Prevent Recurrence

None.

7.0 Similar Events

U2 LER: 85-014  
U2 LER: 88-005

8.0 Manufacturer/Model Number

Circuit Card: Westinghouse/Phase Control 6050D11G01.  
Fuse: SHAWMUT/30AMP A60X30.

VIRGINIA ELECTRIC AND POWER COMPANY  
Surry Power Station  
P. O. Box 316  
Surry, Virginia 23883

July 18, 1988

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

Serial No.: 88-033  
Docket No.: 50-281  
Licensee No.: DPR-37

Gentlemen:

Pursuant to Surry Power Station Technical Specifications, Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit 2.

REPORT NUMBER

88-015-00

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,

*David L. Benson*

David L. Benson  
Station Manager

Enclosure

cc: Dr. J. Nelson Grace  
Regional Administrator  
Suite 2900  
101 Marietta Street, NW  
Atlanta, Georgia 30323

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