

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) <b>Surry Power Station, Unit 1</b>	DOCKET NUMBER (2) <b>0 5 0 0 0 2 8 0</b>	PAGE (3) <b>1 OF 0 3</b>
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TITLE (4)  
**Inoperable IRPIs**

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 9	2 5	8 6	8 6	0 2	8 0	0 1	0 2	3 8			0 5 0 0 0 0
											0 5 0 0 0 0

OPERATING MODE (9) **N**

POWER LEVEL (10) **0 1 0 2**

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 50.36(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
<input type="checkbox"/> 20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME <b>R. F. Saunders, Station Manager</b>	TELEPHONE NUMBER <b>8 0 4 3 5 7 - 3 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 NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS

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 September 25, 1986 at 1345 hours with Unit 1 at 2% power and Unit 2 at 100% power, the Unit 1 Individual Rod Position Indicators (IRPIs) for all the Control Rods moved down approximately 25 steps. The Unit 1 computer and the Control Rod Demand Counters indicated that the Control Rods had not moved and there was no change in reactivity. All Unit 1 IRPIs were declared inoperable in accordance with T.S.3.12.E. Two of the IRPI system power supplies were replaced and all IRPIs were returned to service in two hours.

Individual Control Rods Positions are provided by the IRPIs. Inoperable IRPIs do not affect the operation of the control rod assemblies. All control rods were capable of being dropped during this event.

*ISD*  
*1/1*

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S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8   6	-   0   2   8	-   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 September 25, 1986 at 1345 with Unit 1 at 2% power and Unit 2 at 100% power, the Unit 1 Individual Rod Position Indicators (IRPIs) {EIIS-ROD} for all the Control Rods {EIIS-ZI} moved down approximately 25 steps. No Control Rod movement was being performed. The Unit 1 computer {EIIS-CPU} and the Control Rod Demand Counters {EIIS-CTR} indicated that the Control Rods had not moved and no changes in reactivity were observed.

The IRPIs for all Unit 1 Control Rods were declared inoperable in accordance with Technical Specification 3.12.E.

2.0 Safety Consequences and Implications

Control Rod Position Indication is provided by the IRPI. An inoperable IRPI will not affect the operation of the Control Rod Assembly and each rod was capable of being dropped if required. The Control Rod Demand Counters, which indicate control rod position as demanded by the Rod Control System, remained operable during the times that the IRPIs were not operable. Therefore, the health and safety of the public were not affected.

3.0 Cause

The IRPIs have four power supplies with one positive and one negative normal power supply and one positive and one negative auxiliary power supply. The normal negative power supply failed and the auxiliary started supplying power, but at a reduced voltage. This caused the IRPIs to read low.

4.0 Immediate Corrective Action

The two negative power supplies were replaced and calibrated. All IRPIs were verified as providing the correct indications. Reactor Power was kept constant during this time.

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

5.0 Subsequent Corrective Actions

All IRPI power supplies for both Unit 1 and 2 were checked and verified acceptable.

6.0 Action Taken to Prevent Recurrence

Calibration of the IRPI power supplies are being added to the IRPI refueling Periodic Test.

7.0 Generic Implications

None.

# Vepco

VIRGINIA ELECTRIC AND POWER COMPANY

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

October 23, 1986

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

Serial No: 86-040  
Docket No: 50-280  
License No: DPR-32

Gentlemen:

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

REPORT NUMBER

86-028-00

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,

*R. F. Saunders*  
R. F. Saunders  
Station Manager

Enclosure

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

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