

NRC Form 388
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Surry Power Station, Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 2 8 0										PAGE (3) 1 OF 0 3									
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TITLE (4) Control/Relay Room Chiller Inoperable Due to Chiller Service Water Pump Trip																													
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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 3			1 0			8 7				8 7			0 0			6			0 0			0 4			0 9			8 7														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 0 0										20.402(b)										20.405(c)										50.73(a)(2)(iv)										73.71(b)									
										20.405(a)(1)(i)										50.38(c)(1)										50.73(a)(2)(v)										73.71(c)									
										20.405(a)(1)(ii)										50.38(c)(2)										50.73(a)(2)(vii)										OTHER (Specify in Abstract below and in Text, NRC Form 388A)									
										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)(iii)										50.73(a)(2)(viii)(B)																			
										20.405(a)(1)(v)										50.73(a)(2)(iii)										50.73(a)(2)(x)																			

LICENSEE CONTACT FOR THIS LER (12)																													
NAME R. F. Saunders, Station Manager																				TELEPHONE NUMBER 8 0 4 3 5 7 - 3 1 8 4									

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																														
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPD																				

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)

On March 10, 1987 at 0745 hours with Unit 1 at 100% power and Unit 2 at Cold Shutdown, an operator observed that 1-VS-P-1B (the service water pump {EIIS-P} for the 'B' control/relay room chiller) {EIIS-CHU} had tripped rendering the 'B' chiller inoperable. At the time of the event, the 'A' chiller was tagged out for maintenance and the 'C' chiller was off, but operable.

The exact cause of the pump trip has not been determined. It is suspected that the thermal overload device at the motor control center activated, tripping the pump.

An operator was immediately dispatched to check the pump breaker. He reset the thermal trip device and started the pump which returned the 'B' chiller to service.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Surry Power Station, Unit 1	0 5 0 0 0 2 8 0	8 7	— 0 0 6	— 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 368A's) (17)

1.0 Description of the Event

On March 10, 1987 at 0745 hours with Unit 1 at 100% power and Unit 2 at Cold Shutdown, an operator observed that 1-VS-P-1B (the service water pump {EIIS-P} for the 'B' control/relay room chiller) {EIIS-CHU} had tripped rendering the 'B' chiller inoperable. At the time of the event, the 'A' chiller was tagged out for maintenance and the 'C' chiller was off, but operable.

2.0 Safety Consequences and Implications

The control/relay room air conditioning system consists of three 100% capacity air conditioning chiller units and two trains of 100% capacity air handling units. The design temperature of the control and relay room spaces is from 40 degrees Fahrenheit to 110 degrees Fahrenheit and the electrical equipment has been qualified at 120 degrees Fahrenheit ambient temperature.

During this event, the control/relay room air handling units remained operable or operating and one chiller unit remained operable. Additionally, there was no noticeable increase in ambient temperature of the control or relay room areas. Therefore, this event did not create an unreviewed safety question and the health and safety of the public were not affected.

3.0 Cause

The exact cause of the pump trip has not been determined. It is suspected that the thermal overload device at the motor control center activated, tripping the pump.

4.0 Immediate Corrective Action

An operator was immediately dispatched to check the pump breaker. He reset the thermal trip device and started the pump which returned the 'B' chiller to service.

5.0 Additional Corrective Actions

None required.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

6.0 Action Taken to Prevent Recurrence

This is considered a random event. No further action is necessary.

7.0 Similar Events

None.

8.0 Manufacturer/Model Number

Condenser SW Pump: Ingersoll-Rand/Model 3VK-15.



VIRGINIA ELECTRIC AND POWER COMPANY

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

April 9, 1987

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

Serial No: 87-006
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 updated Licensee Event Report for Surry Unit 1.

REPORT NUMBER

87-006-00

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
Station Manager

Enclosure

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

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