

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Surry Power Station, Units 1 & 2	DOCKET NUMBER (2) 0 5 0 0 0 2 8 0	PAGE (3) 1 OF 0 3
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TITLE (4)
Operating MCR/ESGR Chiller Turned Off Due To Personnel Error

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)															
1	2	3	1	8	8	8	8	0	0	4	6	0	0	0	1	3	0	8	9				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) 0 1 0 1 0	<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"/> 50.38(e)(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"/> 50.38(e)(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)(x)								

LICENSEE CONTACT FOR THIS LER (12)	
NAME M. R. Kansler, Station Manager	TELEPHONE NUMBER AREA CODE: 8 0 4 NUMBER: 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 NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO				

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

On December 31, 1988 at 1350 hours, with Unit 1 at Cold Shutdown (CSD) and Unit 2 in Refueling Shutdown (RSD), an alarm was received in the control room indicating that valve 1-SW-263 had closed. This valve closes upon actuation of a smoke detector in #3 Mechanical Equipment Room (MER). Upon receiving this indication, operators assumed that all SW to the Main Control Room/Emergency Switchgear Room (MCR/ESGR) chillers had been isolated, and immediately stopped the operating chiller ('C') to prevent a chiller trip. At 1357 hours, operators opened 1-SW-263, verified SW flow to the chillers and restarted the 'C' chiller. The cause of the event was due to personnel error. At the time of the event, the control room shift supervisor was under the incorrect assumption that only one of the two service water supplies to the MCR/ESGR chillers was in service. Therefore, when 1-SW-263 closed, the shift supervisor incorrectly assumed all service water to the chillers had been isolated and directed a control room operator to stop the 'C' chiller. Operators verified that no fire existed in the #3 MER. Valve 1-SW-263 was opened, a service water flowpath to the chillers was verified, and the 'C' chiller was restarted. The shift supervisor involved was counseled and reminded of his responsibility to maintain an accurate status of plant components and systems.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 8	0 4 6	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 December 31, 1988 at 1350 hours, with Unit 1 at Cold Shutdown (CSD) and Unit 2 in Refueling Shutdown (RSD), an alarm was received in the control room indicating that valve 1-SW-263 {EIIS-V} had closed. This valve closes upon the actuation of a smoke detector in the #3 Mechanical Equipment Room (MER), in order to separate the two trains of Service Water (SW) {EIIS-BI} that supply the charging pump service water pumps in the event of a fire in the #3 MER. Work activities in #3 MER caused the smoke detector to actuate. These two trains of SW also supply the Main Control Room (MCR)/Emergency Switchgear Room (ESGR) chillers {EIIS-CHU}. Upon receiving the indication that 1-SW-263 had closed, operators assumed that all SW to the MCR/ESGR chillers {EIIS-CHU} had been isolated, and immediately stopped the operating chiller ('C') to prevent a chiller trip. At 1357 hours, operators opened 1-SW-263, verified SW flow to the chillers and restarted the 'C' chiller. The above action resulted in no MCR/ESGR chillers operating for seven minutes. This is contrary to Technical Specification 3.14.B, which requires that one MCR/ESGR chiller be operating and one be operable whenever fuel is in the reactor core.

2.0 Safety Consequences and Implications

The MCR & ESGR air conditioning system consists of three chiller units and two sets of air handling units. The normal operating design temperatures of the control rooms and emergency switchgear rooms are 75 degrees Fahrenheit and 80 degrees Fahrenheit, respectively; however, the electrical equipment contained in these areas are designed to operate in temperatures up to at least 104 degrees Fahrenheit. The fire protection valve, 1-SW-263, closes upon detection of smoke in #3 Mechanical Equipment Room to ensure separation of Unit 1 and Unit 2 service water systems, thereby ensuring flow to the charging pump service water system in the event of a fire.

During this event two chillers were operable and the MCR/ESGR air handling units were operable or operating. During the 7 minutes the chiller was stopped, no increase in MCR/ESGR temperature was sensed, therefore the health and safety of the public were not affected.

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

3.0 Cause

The cause of the event was personnel error. Work activities were being conducted in #3 MER which caused the actuation of a smoke detector. This caused valve 1-SW-263 to close. At the time of the event, the control room shift supervisor was under the incorrect assumption that only one of the two service water supplies to the MCR/ESGR chillers was in service. He based his assumption on discussions that had taken place the previous day with operations testing personnel, who were evaluating the feasibility of isolating one train of SW to the #3 MER to support testing activities. Isolation of the train did not occur however. If one train of SW had been isolated, all SW to the chillers would have had to flow through 1-SW-263. Therefore, when 1-SW-263 closed, the shift supervisor incorrectly assumed all service water to the chillers had been isolated and directed a control room operator to stop the 'C' chiller.

4.0 Immediate Corrective Action(s)

Operators verified that no fire existed in the #3 MER. Valve 1-SW-263 was opened, a service water flowpath to the chillers was verified, and the 'C' chiller was restarted.

5.0 Additional Corrective Action(s)

Operators verified that both trains of SW to the chillers and charging pump service water pumps were in operation.

6.0 Action(s) Taken to Prevent Recurrence

The shift supervisor involved was counseled and reminded of his responsibility to maintain an accurate status of plant components and systems.

7.0 Similar Events

None.

8.0 Manufacturer/Model Numbers

N/A

VIRGINIA ELECTRIC AND POWER COMPANY
Surry Power Station
P. O. Box 315
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January 30, 1989

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

Serial No.: 88-071
Docket Nos.: 50-280
50-281
License Nos.: DPR-32
DPR-37

Gentlemen:

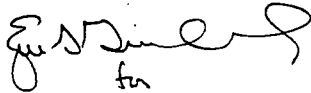
Pursuant to Surry Power Station Technical Specifications, Virginia Electric and Power Company hereby submits the following Licensee Event Report for Units 1 and 2.

REPORT NUMBER

88-046-00

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,



M. R. Kansler
Station Manager

Enclosure

cc: Regional Administrator
Suite 2900
101 Marietta Street, NW
Atlanta, Georgia 30323

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