Virginia Electric and Power Company Surry Power Station P. O. Box 315 Surry, Virginia 23883

May 6, 1992

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555 Serial No.:

92-311

SPS:RCB

Docket No.:

50-281

License No.:

DPR-37

Gentlemen:

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

REPORT NUMBER

50-281/92-005-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be reviewed by the Corporate Management Safety Review Committee.

Very truly yours,

M. R. Kansler Station Manager

Enclosure

cc:

Regional Administrator

Suite 2900

101 Marietta Street, NW Atlanta, Georgia 30323

JE37 .

9205140186 920506 PDR ADDCK 05000231

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WIRLTH'S INFORMATION COLLECTION REQUEST 600 HRS FOR WARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (F-630) U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON DC 2065S. AND TO THE PAPERWORK REDUCTION PROJECT 1350-0104. OFFICE OF MANAGEMENT AND SUDDET WASHINGTON DC 20653.

an exercise	NAME OF TAXABLE PARTY.	NAME (.00	iuimo ess				-							CHARLEST STEERS		COLUMN TO A STATE OF THE PARTY	-		
A CONTRACTOR OF THE CONTRACTOR									OCKET NUMBER	- International	GE IS								
														0 15 10 10		18 13	1 01	0 14	
TITLE 14	On	e T	ra	in	of I	ntak	e Ca	mal	Lev	el Sensin	g Chan	mel I	Discover	ed Out of	the		-		
	Tr	ip.		sit	ion	Afte	r I	solat	ton	of Scree	nwell								
EVE	NT DAT			П		LER NU	MBER	6		REPORT DA	YE (7)		OTHER	ACILITIES INVO	LVED (B)		-		
MONTH	DAY	YE	AR	VI	AR		NTIAL ARER		VISION MRER	MONTH DAY	PEAR		FAULTY NAM	N.E.	DOCKE	NUMBE	F1(6)		
-	****	1		-				1-4-	-						0 5	1010	1.0.1	1.17	
				F	1	4.									-	derende pe	arko-arkon		
0 4	10	9	12	9	12	0	0 15	0		0 5 0 6	9 2				0 6	0 10	101	11.1	
CORN	RATING	ducer		TH	E REPOR	T IS BUE	BMITTE	D PURBI	LANT T	TO THE REQUIRE	MENTS OF 1	0 CFR \$ 10	hack one or more o	if the followings (1	Albert serilesta	A.		- de consideran	
MODE (F)		N		20.402(k)			T	20.406(a)			90.73(a)(2)((v)		73.73(6)						
POWER			all residence of		20.406	406 (a) (1) (if				60.38(()))		-	80.73(a)(2)(v)	0.73ta1(2)(v)			(4c)		
LEVE: (10)	LEVEL 1, 0,0				20.406(a)(\)1(1)					50.36(a)(2)			50.73(a)(2)(viii)				HER (Specify in Abstract		
		direction of the last		20.409(4)(1)((())				X 50.73(a)(2)(i)				60.73(a)(2)(ent(A)			DEFOR and in Taxt NRC Form				
		20.406(a)(1)(by)						80.73(a)(2)(4)		-	50.73(4)(2)(viii)(8	i)							
				20.405(£)(1)(v)						50.72(a)(2)(iii)			8-3-73(a) (2) (a)						
									1	ICENSEE CONTAC	T FOR THIS	LER (12)							
NAME															TELEPH	ONE NUI	ABER		
	M. 1	10	Kar	nsl	er,	Stati	ion	Mana	ger					AREA CODE					
														81014	13.15	1.71-	13.11	18 4	
						COM	PLETE	Offic LIN	E FOR	EACH CONFONE	NT FAILURE	DESCHIBE	D IN THIS REPOR						
CAUSE	SYSTEM		ONE	ONE	NT	MANUF		REPOR TO N			CAUSE	SYSTEM	COMPONENT	MANUARD TURBE		RTABLE			
														-			***********		
		-	1	J			-									-			
								1											
		٠,	4	1	1				-							-	-		
-		-	-			SUI	PP. ESAI	ENTAL R	RPDRT	EXPECTED (14)		-		EXPECT		MONT	H DAY	YEAR	
YES	m., m	сатур	ete d	NPE	CTED BU	8M/\$\$107	N DAT	E)		V 10				DATE				10	
ARSTRAC	19 11 mont	Apr. 7 4		CALLS.		AND DESCRIPTION	Til State Service			espectation (Local (18))					and the second second	the skin	and the section of		

On April 10, 1992, with Unit 1 in Cold Shutdown and Unit 2 at 100% power, one train of Channel 1 of the Intake Canal Level Sensing System was discovered to be in its normal operating position, rather than in its tripped condition. Both trains of the channel had been placed in trip on March 25, 1992, as required by the Technical Specification Table 3.7-2, Item 5 action note, preparator to isolating a portion of the canal intake structure. The exact cause of the condition is undetermined. However, contractor personnel were working in the vicinity and it is has been concluded that the switch position was inadvertently moved when the key in the switch was knocked by a contractor climbing into the area above the switch. Inasmuch as the other three channels of the sensing system remained fully operable during the period of interest, the health and safety of the public were unaffected. The switch configuration will be evaluated for appropriate protective measures and this event will be discussed by Station Management at upcoming Employee Update Meetings. This event is reportable pursuant to 10CFR50.73(a)(2)(i)(B).

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THE INFORMATION COLLECTION REQUEST 50.0 HRS FORWARD COMMENTS REQUESTION BURDEN ESTIMATE TO THE RECORD AND REPORTS ARAGEMENT BRANCH (#520) U.S. NUCLEAR REGULATION COMMISSION WASHINGTON D. 20515 AND TO THE PARRWORK REDUCTION PROJECT (2750-0704) OFFICE OF MANAGEMENT AND BUDGET WASHINGTON DC 2050)

TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
Surry Power Station, Unit 2		YEAR SEQUENTIAL REVISION NUMBER	
	0 5 0 0 0 2 8 1	9 2 _ 0 0 5 _ 0 0	0 2 OF 0 4

TEXT If more space is required, use additional NRC Form MEA s. (17)

1.0 DESCRIPTION OF THE EVENT

On April 10, 1992, with Unit 1 in Cold Shutdown and Unit 2 at 100% power, station personnel were in the process of removing stop logs on the high level intake structure and restoring Channel 1 of the Intake Canal Level Sensing System [EIIS-KE,LS] to service. Both trains of this channel had been placed in trip on March 25, 1992, in accordance with the Technical Specification Table 3.7-2, Item 5 action note, preparatory to installing stop logs to remove a portion of the canal's intake structure from service. However, when the channel was being returned to service, one train was found in its operating, rather than its tripped, condition.

The Circulating Water (CW) and Service Water (SW) 5 stems [EIIS-KE] are gravity flow systems supplied by a concrete lined intake canal. The intake canal is maintained at a predetermined level with water pumped from the James River. This water provides the ultimate heat sink for both units.

When a portion of the intake structure is isolated, or "stop-logged", the conditions within that portion no longer accurately reflect those of the canal itself. Therefore, the level sensing device is considered inoperable and is placed in trip in accordance with Technical Specifications. This operation is performed by technicians utilizing a keyswitch provided for the purpose. After placing the switch in the trip position, the key is "captured" by the lock and cannot be removed until it is returned to the normal, operating position. The key is tagged and controlled by Operations Department Logs.

At some time during the interval between March 25, 1992, when both trains of Channel 1 were placed in trip and April 10, 1992, when the discrepant condition was discovered, one train of Channel 1 Intake Canal Level was returned to the normal operating mode. Operating either unit in this condition is a violation of Technical Specifications and is reportable pursuant to 10CFR50.73(a)(2)(i)(B).

2 0 SIGNIFICANT SAFETY CONSEQUENCES AND IMPLICATIONS

The intake canal level protection system consists of four safety-related level sensing probes installed in four of the eight high level intake structures (screenwells). Two level sensors are located in Unit 1 screenwells 1B and 1D and the other two are located in Unit 2 screenwells 2A and 2C. Each of the four detectors is a channel feeding

APPROVED OMENG 3150-0104 EXPIRES 4/30/92

ESTIMATED BURUER PER HESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 800 HRS FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECOMOS AND REPORTS MANAGEMENT BRANCH (FS3D) U.S.N. "CLEAR REGULATORY COMMISSION WASHINGTON DC 20555 AND TO THE FARFENORR REDUCTION PROJECT (3150-0104) OFFICE OF MANAGEMENT AND BUDGET WASHINGTON DC 20563.

LICE	VSEE	EVENT	REPORT	(LER)
7	EXT	CONTIN	NUATION	

FACILITY NAME (1)	DOC	KET	NUI	18 E F	(2)	erest ten		eta inspirale		is some as	LE	RNU	MBERI	81			AGE	3
Surry Power Station, Unit 2									×	EAR		EE O	WEER	I	NEVERN			
	0	15	Ü	1.6	0	2	8	1	9	12			0 5		0 0	0:13	OF	0 4

TEKT Iff more space is required, use additional NRC Form 3664's) (17)

two separate trains of protection logic. Each train uses a three-out-of-four matrix to actuate on a low canal level of 23.5 feet. Satisfying either train of this logic will trip both units' turbines, close the CW and SW valves to the Component Cooling Heat Exchangers [EIIS-CC,HX] and Bearing Cooling Heat Exchangers [EIIS-KG,HX], and close both units' condenser CW inlet and outlet valves [EIIS-KE,ISV]. These actuations are designed to ensure adequate intake canal inventory is available to provide SW flow to the Recirculation Spray Heat Exchangers [EIIS-BE,HX] in the event of a Design Basis Accident. Each channel is provided with the capability to place both trains from the channel in a tripped mode. This feature allows for testing or continued unit operation with an inoperable channel while maintaining the system's required degree of redundancy.

Throughout the period covered by this report, the three remaining channels were operable and capable of performing the required actions on low canal level. With one train of one channel inoperable and not in the trip mode, an additional channel failure in a non-conservative direction could prevent automatic initiation of the required CW and SW isolation during an event. However, control room indications and annunciators are available to alert operators of a low canal level condition. Abnormal, emergency, and annunciator response procedures provide operator direction to take the required actions in the event of a low level condition. In addition, the affected screenwell was drained during approximately half of the time that the stop logs were installed. With the screen well drained, the affected train would have sensed the actual low level, condition and responded as though it had been properly placed in the tripped position. Therefore, the health and safety of the public were unaffected.

3.0 CAUSE OF THE EVENT

The exact cause of the event is undetermined. However, contractor personnel were working in the vicinity, and it is has been concluded that the switch position was inadvertently moved when the key in the switch was knocked by a contractor climbing into the area above the switch.

4.0 IMMEDIATE CORRECTIVE ACTION(S)

No immediate corrective action was necessary since stop logs had been removed and the switches were being returned to their normal, operating position when the condition was discovered. Contractor personnel had completed their work in the area on April 4, 1992.

	STREET, STREET
NRC FORM 366A	US NUCLEAR REGI
(6-89)	

TEX: CONTINUATION

APPROVED OMB NO. 3150 0104 EXPINES 4/30/92

ESTIMATED BURDEN FER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST SOO HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH FESTOL US NUCLEAR REGULATORY COMMISSION WASHINGTON DC 20555 AND TO THE PAPERWINER REQUETION PROJECT 11560THA OFFICE OF MANAGEMENT AND BUDGET WASHINGTON 72 20503

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
Surry Power Station, Unit 2	VE.	EAR SECURATION MEVISION NUMBER			
	0 5 0 0 0 0 2 8 1 9	2 _ 0 0 5 _ 0 0	014 01 014		

LATORY COMMISSION

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

5.0 ADDITIONAL CORRECTIVE ACTION(S)

None

6.0 ACTIONS TO PREVENT RECURRENCE

Because of a similar incident in the past (Unit 1 LER 91-002-00) where an instrument air line was accidentally stepped on and broken, a "Problem Alert" mem andum was issued to station and contractor personnel on May 15, 1991. This memorandum pointed out the potential for damage that a misplaced step bould cause and encouraged caution when working in cramped areas. To emphasize the importance of these events, Station Management will review them at a regularly scheduled Employee Update Meeting. It will be stressed that prope and safe work practices prohibit climbing upon, standing upon, or changing the status of plant equipment. In addition, the configuration of the switch and its location are under evaluation. Appropriate changes will be made based on the recommendations from this evaluation.

7.0 SIMILAR EVENTS

Unit 1

LER 91-002-00

"Two Charging Pumps and One Charging Pump Service Water Pump Inoperable Simultaneously Due to Instrument Air Line Failure Caused by Personnel Error"

8.0 ADDITIONAL INFORMATION

None