VIRGINIA ELECTRIC AND POWER COMPANY

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

September 14, 1989

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555 Serial No.: 89-039 Docket Nos.: 50-280 50-281 License Nos.: DPR-32 DPR-37

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Gentlemen:

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

REPORT NUMBER

89–036–00

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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ł	shutdown (CSD), an ongoing systematic review of Technical																														

On August 15, 1989 with Unit 1 at 100% power and Unit 2 at cold shutdown (CSD), an ongoing systematic review of Technical Specification (T.S) surveillance requirements identified that the testing of the Reactor Protection System (RPS) P-10 permissive circuit may not have been performed prior to each reactor startup as specified. The reactor protection features associated with this permissive were declared inoperable and a six hour clock to hot shutdown was entered. A four hour notification per 10CFR50.72 was made to the Nuclear Regulatory Commission. A Justification for Continued Operation was written and approved and the six hour clock was exited. An existing procedure was deviated and performed to verify the P-10 circuit was fully operable. Subsequent examination of the existing testing procedures determined that the surveillance test was adequately performed. However, the procedures are being revised to enhance documentation of the required testing.

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	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.							
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)					
Surry Power Station, Units 1 and 2	0 5 0 0 0 2 8 0	YEAR SEQUENTIAL REVISION NUMBER NUMBER NUMBER 8 9 -0 3 6 -0 0 0 0	0 2 0F 0 4					
TEXT (If more space is required, use additional NRC Form 3664's) (17)								

1.0 Description of the Event

On August 15, 1989 with Unit 1 at 100% power and Unit 2 at cold shutdown (CSD), an ongoing, systematic Technical of Specification review the (T.S.) surveillance requirements identified that the testing of the Reactor Protection System (RPS) (EIIS-JC) P-10 permissive circuit (EIIS-EIL) may not have been performed prior to each reactor startup as specified. Technical Specification 4.1.A.2 requires testing of this permissive circuit prior to each reactor startup unless performed during the preceding 92 days.

The P-10 permissive is actuated when two out of four Power Range Nuclear Instruments (PRNI) (EIIS-IG) are greater than 10% reactor power. The P-10 permissive allows manual blocking of the PRNI low setpoint high flux trip and the Intermediate Range (IR) NI high flux trip and control rod (EIIS-JD) stop. The permissive clears and the above protection features are automatically reinstated when three out of four PRNIs decrease below 10% reactor power.

Currently, Periodic Test (PT) 8.2 is implemented prior to criticality to satisfy the T.S. surveillance requirements associated with the reactor protection logics. Included in this test is a verification of P-7 permissive circuit. This permissive is the actuated and automatically defeats the at power reactor trips when three out of four PRNI are less than 10% power in coincidence with two out of two turbine power indications less than 10%. The same relay contacts used for the three out of four PRNI logic matrix in the P-7 circuit are also used in the P-10 circuit. The test procedure verifies actuation of the P-7 relays (EIIS-RLY), but did not specifically verify actuation of the P-10 relays when the P-7 logic satisfied. Consequently, appeared that is it continuity from the three out of four logic matrix to the P-10 relays was not being verified and therefore the T.S. surveillance requirement for P-10 was not being satisfied. With this potential deficiency in the required testing, automatic reinstatement of the PR low setpoint high flux trip and the IR high flux trip could not be assured. A four hour notification per 10CFR50.72 was made to the Nuclear Regulatory

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NRC FORM 366A (6-89)	U.S.	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-0104
	LICENSEE EVENT REPORT TEXT CONTINUATION	(LER)	EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
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		0 5 0 0 0 2 8 0	8 9 -0 3 6 - 0 0 0 3 0F 0 4
FACILITY NAME (1) Surry Power S TEXT (If more space is required	<pre>Station, Units 1 and 2 / use additional NRC Form 3664's/(17) Commission on An protection features this testing defic: Further examination notification reve verified to be en conditions for per continuity between relays was bein surveillance requ satisfied. 2.0 Safety Consequence Since the requires are no safety impl 3.0 Cause The procedure did of P-10. Inadeq procedures followi deficiency result hour report and un 4.0 Immediate Correcti The P-10 permiss protective functi l320 hours a six entered in accorda Specification 3.0. Operation (JCO) operation. Becaus</pre>	DOCKET NUMBER (2) 0 5 0 0 2 8 0 ugust 15 stating s were considered indi- iency. n of PT-8.2 subseque: ealed that the P nergized as part forming the test. Con- the PRNI logic matrixing demonstrated irements for P-10 <u>s and Implications</u> d testing was being ications. not explicitly requi- uate review of th- ng the initial su- ed in premature init necessary preparation <u>ve Action(s)</u> ive circuit and ons were declared in- hour clock to ho- nce with the provisi- 1. A Justification was then required t	LEE NUMBER (6) PAGE (3) YEAR SEQUENTIAL REVISION NUMBER 8 9 -0 3 6 -0 0 0 3 OF 0 4 that the above operable due to nt to the NRC 10 relays were of the initial onsequently, the ix and the P-10 and the T.S. 0 were being performed, there re verification e existing test spicion of the iation of a four n of a JCO. its associated operable, and at t shutdown was ons of Technical for Continued ed for Unit 1 o function for
	blocking and rein Unit 1 was at 100% JCO also provide trip the reactor b	nstating low power power, P-10 was not d compensatory act efore decreasing po	level trips and required. The ions to manually wer below 10%.
	The JCO was approve at 1533 hours. Specification Lim: was inappropriate acceptable basis enforcement action lieu of puttin transient.	ed and the six hour of However, exiting iting Condition of . The JCO would s for obtaining to allow continue- g the plant thro	clock was exited a Technical Operation (LCO) have been an discretionary d operation in ugh a shutdown

NRC FORM 366A	U.S. I	NUCLEAR REGULATORY COMMISSION		
LICE		LER)	APPROVED OMB NU, 318 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE 1 INFORMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	50-0104 50.0 HRS. FORWARD 50.0 HRS. FORWARD MATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, AND TO TT (3150-0104), OFFICE NGTON, DC 20503.
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
Surry Power Station	, Units 1 and 2	0 5 0 0 0 2 8 0	YEAR SEQUENTIAL REVISION NUMBER NUMBER	0 4 0 F 0 4
TEXT (If more spece is required, use additional	/ NRC Form 366A's) (17)			
5.0	Additional Correcti	ve Action(s)		
	Periodic Test 8.1, system logics with perform continuity logic matrix to successfully complet 1989, and the P- were declared operation NRC was made on August 16, 1989.	used to test the rea the unit at power, and resistance check the P-10 relays. ted at 1241 hours 10 permissive protect ble. Follow-up not successful testing a	actor protection was deviated to ks from the PRNI This testing was on August 16, action functions ification to the at 1628 hours on	
	After further rev PT-8.2 procedures we the circuit. How clearly document the circuit. The Unit completed, and the Verification of the performed simultanes the P-7 circuit. prior to startup.	view, the existing Un vere determined to a vever, they are be the testing of the D 2 procedure enhance Unit 1 procedure is the P-10 relay actuan cously with the log: The Unit 2 test with	hit 1 and Unit 2 adequately test eing enhanced to P-10 permissive ements have been being revised. tion will now be ic testing for ill be performed	
6.0	Action(s) Taken to	Prevent Recurrence		
	The systematic revi outlined in T.S. review will determi accurately reflect Appropriate enhance testing procedures On August 16, 1989, JCOs when a us Specification LCO. only be exited we operable, the operation LCO is achieved, or discretionary enfoc Regulatory Commission	ew of the surveillar Section 4.1 is con- ne if existing test to the surveillance ements and/or add will be made follow SNSOC reviewed the unit is governed h Technical Specifica- then equipment is der ational condition re- tan appropriate JCO procement approved h on.	nce requirements ontinuing. This ting procedures e requirements. itions to the ing this review. utilization of by a Technical ation LCOs will monstrated to be equired by the is prepared and by the Nuclear	
7.0	<u>Similar Events</u>			
	None.			
8.0	Manufacturer/Model	Number(s)		
	N/А			

NRC Form 366A (6-89)

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