

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									
TITLE (4) Degraded IRPI																								
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	7	8	5	8	5	—	0	1	9	—	0	0	1	0	2	5	8	5				
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 3 0			20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)									
			20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)									
			20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)									
			20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(vii)(A)													
			20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(vii)(B)													
20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)																
LICENSEE CONTACT FOR THIS LER (12)																								
NAME R. F. Saunders, Station Manager										TELEPHONE NUMBER AREA CODE 8 1 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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC															
E	R	B	L	I	A	3	8	0	Y															
SUPPLEMENTAL REPORT EXPECTED (14)																								
YES (If yes, complete EXPECTED SUBMISSION DATE)										NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR								
										X														

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

ABSTRACT

On September 27 and October 13, 1985 with the unit at power, IRPI for two rods in one group were inoperable. For both events, at least one IRPI was returned to service within two hours. Operations with IRPI for two rods in one group inoperable is prohibited by station Technical Specifications.

Control rod position indication is provided by the individual rod position indicator (IRPI), which has no safety function. During this event, core data was being monitored to assure core power distribution limits were not exceeded. Also, an inoperable IRPI will not affect the operation of the control rod assembly and each rod was capable of being dropped if required. Therefore, the health and safety of the public was not affected.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		OF	
Surry Power Station, Unit 1	0 5 0 0 0 2 8 0	8 5	—	0 1 9	—	0 0	0 2 OF 0 3

TEXT (If more space is required, use additional NRC Form 365A's) (17)

DEGRADED IRPI1. Description of the Event

On September 27, 1985 at 0012 hours with the unit at 30% power and ramping off line due to an approaching hurricane, the individual rod position indication (IRPI) for Rod D-12 of C Bank (Group 1) indicated more than 12 steps below the bank demand position. The IRPI for Rod D-12 was declared inoperable per T. S.. Prior to this event, Rod D-4 of C Bank (Group 1) had been indicating more than 12 steps from the Bank demand position and had been declared inoperable.

In addition, on October 13, 1985 at 0715 hours with the unit ramping up from 78%, IRPI for Rod D-12 indicated more than 12 steps from the Bank demand position and was declared inoperable. IRPI for Rod D-4 had been previously declared operable.

At least one IRPI was returned to service within two hours for both events.

2. Probable Consequences and Status of Redundant Equipment

Control rod position indication is provided by the individual rod position indicator (IRPI), which has no safety function. During this event, core data was being monitored to assure core power distribution limits were not exceeded. Also, an inoperable IRPI will not affect the operation of the control rod assembly and each rod was capable of being dropped if required. Therefore, the health and safety of the public was not affected.

3. Cause

Spurious incorrect rod position indication is known to be a generic Westinghouse PWR concern. The instrumentation drift appears to be affected by primary coolant temperature and control bank movement.

4. Immediate Corrective Action

The portion of the system outside the containment was tested and no problems could be found. The monitoring of core data was continued via T.S.3.12.E.2.2.

5. Subsequent Corrective Action

None.

6. Action Taken to Prevent Recurrence

No specific actions are required at this time.

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DEGRADED IRPI7. Generic Implications

IRPI drift is a known generic Westinghouse PWR concern.