

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) D. C. COOK, UNIT ONE										DOCKET NUMBER (2) 0 5 0 0 0 3 1 1 5 1										PAGE (3) 1 OF 0 1				
TITLE (4) REACTOR COOLANT SYSTEM BORON DILUTION																								
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	4	2	9	8	5	8	5	0	2	1	0	0	0	5	2	4	8	5	0 5 0					
OPERATING MODE (9) 6		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)																						
POWER LEVEL (10) 0 0 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)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)										
		20.405(a)(1)(iii)				X 50.73(a)(2)(i)				50.73(a)(2)(viii)(A)														
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)														
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)														
LICENSEE CONTACT FOR THIS LER (12)																								
NAME K. R. BAKER - OPERATIONS SUPERINTENDENT										TELEPHONE NUMBER 6 1 6 4 1 6 1 5 - 1 5 1 9 1 0 1 1														
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																								
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS														
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 APRIL 29, 1985, AT 0422 HOURS WITH THE UNIT IN MODE 6 (REFUELING), THE CONTROL ROOM OPERATOR TRANSFERRED WATER FROM THE REFUELING WATER STORAGE TANK (RWST) TO THE REACTOR COOLANT SYSTEM (RCS). THE RCS BORON CONCENTRATION WAS 2084 PPM WHILE THE RWST BORON CONCENTRATION WAS 2069 PPM. LITERAL INTERPRETATION CONCLUDES THAT THIS IS A DILUTION OF THE RCS. THE REACTOR VESSEL FLOW REQUIREMENT, SPECIFIED IN TECHNICAL SPECIFICATION 3.1.1.3, WAS NOT VERIFIED PRIOR TO THE DILUTION. THE ACTION STATEMENT REQUIRES IMMEDIATE SUSPENSION OF ALL BORON CONCENTRATION REDUCTION ACTIVITIES. THE DILUTION WAS INITIALLY IDENTIFIED BY THE NRC RESIDENT INSPECTOR ON MAY 1, 1985. CONSEQUENTLY, THE ACTION STATEMENT REQUIREMENTS WERE NOT MET.

THERE WERE NO ADVERSE SAFETY CONSEQUENCES DUE TO THIS INCIDENT. TECHNICAL SPECIFICATION 3.9.1 REQUIRES A BORON CONCENTRATION OF > 2000 PPM FOR ADEQUATE SHUTDOWN MARGIN. THIS REQUIREMENT WAS SATISFIED THROUGHOUT THE EVENT.

TO PREVENT RECURRENCE, THE PROCEDURE FOR FILLING THE REACTOR REFUELING CAVITY HAS BEEN REVISED TO INCLUDE VERIFICATION/DOCUMENTATION OF THE REACTOR VESSEL FLOW IN THE EVENT A RCS DILUTION OCCURS.

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PDR ADDCK 05000315
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