

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) D.C. COOK NUCLEAR PLANT - UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 3 1 6	PAGE (3) 1 OF 0 2
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TITLE (4) CONTAINMENT PURGE ISOLATION
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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	5	0	4	8	4	8	4	0	1	1	0	5	0	0	0		
0	5	0	4	8	4	8	4	0	0	0	5	3	1	8	4		

OPERATING MODE (9) 6		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11)													
POWER LEVEL (10) 0 0 1 0		20.402(b)		20.406(e)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)		73.71(b)							
		20.406(a)(1)(i)		50.39(e)(1)		50.73(a)(2)(v)		73.71(c)							
		20.406(a)(1)(ii)		50.38(e)(2)		50.73(a)(2)(vii)		OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
		20.406(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)									
		20.406(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)									
		20.406(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(ix)									

LICENSEE CONTACT FOR THIS LER (12)									
NAME T.A. KRIESEL, TECHNICAL SUPERINTENDENT-PHYSICAL SCIENCES DEPARTMENT								TELEPHONE NUMBER 6 1 6 4 6 5 - 5 9 0 1	

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										
B	I	L	M	O	N	E	0	7	0	N									

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)

DURING MODE 6, CONTAINMENT PURGE ISOLATED DUE TO SOFTWARE ERRORS IN THE EBERLINE RADIATION MONITORING SYSTEM. THE SOFTWARE ERRORS CAUSED RADIATION MONITOR SPURIOUS HIGH ALARMS ON THE LOWER CONTAINMENT AIRBORNE LOW RANGE NOBLE GAS MONITOR--TRAIN A, ERS 2305.

THIS INCIDENT IS BEING REPORTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.73 (a) (2) (iv) WHICH STATES: "ANY EVENT OR CONDITION THAT RESULTED IN A MANUAL OR AUTOMATIC ACTUATION OF ANY ENGINEERED SAFETY FEATURE (ESF) INCLUDING THE REACTOR PROTECTION SYSTEM (RPS). HOWEVER, ACTUATION OF AN ESF, INCLUDING THE RPS, THAT RESULTED FROM AND WAS PART OF THE PREPLANNED SEQUENCE DURING TESTING OR REACTOR OPERATION NEED NOT BE REPORTED."

AT THE TIME OF THESE OCCURRENCES, THE CONTAINMENT PURGE PROCEDURES DID NOT ADDRESS EXPECTED RESULTS OR PREPLANNED SEQUENCES IDENTIFIED IN NUREG (1022) PARAGRAPHS [50.73 (a) (2) (iv)]. EACH UNITS PROCEDURE HAS BEEN CHANGED TO IDENTIFY THIS EXPECTED SITUATION WHICH WILL PREVENT THE NEED TO REPORT ANY SIMILAR INCIDENTS OF THIS NATURE.

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PDR ADOCK 05000316
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) D.C. COOK NUCLEAR PLANT - UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 3 1 6 8 4 - 0 1 1 - 0 0 0 2 OF 0 2	LER NUMBER (5)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

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

ON MAY 4, 1984 AT 0647 HOURS, WITH THE REACTOR COOLANT SYSTEM IN MODE 6, THE LOWER CONTAINMENT AIRBORNE LOW RANGE NOBLE GAS MONITOR--TRAIN A, ERS 2305, (IL) RECEIVED A SPURIOUS HIGH ALARM WHICH CAUSED THE TRIP OF TRAIN A--UNIT 2 CONTAINMENT VENTILATION.

THE CONTROL TERMINAL AND EACH MONITOR HAVE INDEPENDENT INTERNAL CHECKS WHICH RECEIVE A CLOCK SYNCHRONIZATION MESSAGE FROM THE CONTROL TERMINAL SOFTWARE EACH NIGHT AT 0000 HOURS. WHEN A MONITOR IS NOT IN SYNCHRONIZATION, THE SOFTWARE ATTEMPTS TO FIT ANY DATA PRESENT IN THE CHANNEL INTO AN ARBITRARY TIME FRAME. THIS CAN RESULT IN A FALSE CHANNEL STATUS WHICH MAY OR MAY NOT BE A HIGH ALARM. IN THIS INSTANCE, THE SYSTEM CLOCK READ 0000 HOURS AT 0647 HOURS REAL TIME DUE TO A CHANGE IN THE SYSTEM TIME CLOCK FOR A 24-HOUR DATA LOG PRINTOUT THE PREVIOUS DAY. THE SYSTEM TIME CLOCK WAS NOT RETURNED BACK TO REAL TIME AFTER THE DATA LOG PRINTOUT AND THIS RESULTED IN A SPURIOUS HIGH ALARM.

THE CLOCK SYNCHRONIZATION PROBLEM IS A SOFTWARE ERROR AND ERS 2305 WAS NOT TRULY IN A HIGH ALARM STATUS DUE TO RADIOACTIVITY. THE MANUFACTURER HAS BEEN NOTIFIED OF THE ERROR AND RESOLUTION IS CURRENTLY UNDER EVALUATION. THIS SOFTWARE ERROR WILL BE TRACKED USING THE "OPEN" LER 84-003-00. UPON RESOLUTION, LER 84-003-00 WILL BE REVISED.

AT THE TIME OF THESE OCCURRENCES, THE CONTAINMENT PURGE PROCEDURES DID NOT ADDRESS EXPECTED RESULTS OR PREPLANNED SEQUENCES IDENTIFIED IN NUREG (1022) PARAGRAPHS [50.73 (a) (2) (iv)]. EACH UNITS PROCEDURE HAS BEEN CHANGED TO IDENTIFY THIS EXPECTED SITUATION WHICH WILL PREVENT THE NEED TO REPORT ANY SIMILAR INCIDENTS OF THIS NATURE.