

NRC Form 388
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

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 1				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 4	1	9 8	4 8	4	0 0 8	0 1	0 5	3 1	8 4				0 5 0 0 0		
												0 5 0 0 0			

OPERATING MODE (9) 6		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)													
POWER LEVEL (10) 0 0 0	20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
	20.406(a)(1)(i)				50.36(e)(1)				50.73(a)(2)(v)				73.71(c)		
	20.406(a)(1)(ii)				50.36(e)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 365A)		
	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)															
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NAME T. A. KRIESEL, TECHNICAL - PHYSICAL SCIENCES DEPARTMENT										TELEPHONE NUMBER AREA CODE 6 1 6 4 6 5 - 5 9 0 1					
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPDOS	CAUSE	SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE TO NPDOS		
B	I, L	M, O, N	E, O, 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)

TWO INCIDENTS OCCURRED DURING MODE 6 IN WHICH CONTAINMENT PURGE ISOLATED DUE TO SOFTWARE ERRORS IN THE EBERLINE RADIATION MONITORING SYSTEM. THE SOFTWARE ERRORS CAUSED SPURIOUS RADIATION MONITOR HIGH ALARMS ON THE CONTAINMENT AREA RADIATION MONITOR--TRAIN A, VRS-2101.

THESE INCIDENTS ARE BEING REPORTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.73 (a) (2) (iv) WHICH STATES: "ANY EVENT OR CONDITION THAT RESULTED IN 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.

8406050353 840531
PDR ADOCK 05000316
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		— 0 0 8	— 0 1 0	2	OF	0	2

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

THE FOLLOWING TWO INCIDENTS OCCURRED DURING MODE 6 IN WHICH CONTAINMENT PURGE ISOLATED DUE TO RADIATION MONITOR HIGH ALARMS ON THE CONTAINMENT AREA RADIATION MONITOR--
TRAIN A, VRS-2101 (IL).

INCIDENT #1 - AT 0000 HOURS ON 4/19/84, VRS-2101 CONTAINMENT AREA RADIATION MONITOR--
TRAIN A, RECEIVED A SPURIOUS HIGH ALARM WHICH CAUSED THE ISOLATION OF
TRAIN A CONTAINMENT VENTILATION. THE CONTROL TERMINAL AND EACH MONITOR
HAVE INDEPENDENT INTERNAL CLOCKS 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.

INCIDENT #2 - AT 1310 HOURS ON 4/24/84, VRS-2101 RECEIVED ANOTHER SPURIOUS HIGH ALARM
DUE TO CLOCK SYNCHRONIZATION AT A SIMULATED TIME OF 0000 HOURS DURING
TROUBLE SHOOTING ACTIVITIES.

THE CLOCK SYNCHRONIZATION PROBLEM IS A SOFTWARE ERROR, AND VRS-2101 WAS NOT TRULY
IN A HIGH ALARM STATUS DUE TO RADIOACTIVITY IN EITHER INCIDENT. THE MANUFACTURER HAS
BEEN NOTIFIED OF THE ERROR AND RESOLUTION IS CURRENTLY UNDER EVALUATION. THIS SOFT-
WARE 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.

THIS LER IS BEING UPDATED PER REQUEST OF THE D. C. COOK PLANT SENIOR RESIDENT
NRC INSPECTOR.