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0203 AN TIVELY) AT 0203 (ERS-24 ISOLAT) PARTICU BOTH TH VALVE) CONTAJ 3 HOURS, 401) ALA ION (CVJ ULATE MC RAIN INJ (2RC-107	INMENT F , A LOWE ARMED, I L). AT DNITOR (ITIATION 7).	URGE I R CONT. NITIAT 0949 H ERS-23 S WERE	ED IN TRA SOLATIONS AINMENT A ING A TRA OURS, A L 01) ALARM CAUSED B ERIFIED T	IN " IRBC IN " OWEF ED, Y A	B" A DRNE B" C CON INIT LEAK	ND TRAI PARTICU CONTAINM TAINMEN TAINMEN TATING CING LOO	N "A" () LATE MOI ENT VAL' T AIRBOI A TRAIN P 4 RTD	RESPEC- NITOR VE RNE "A" CVI. BYPASS	

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

US NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104

EXPIRES 8/31 85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		VEAR SEQUENTIAL REVISION NUMBER NUMBER		
D. C. COOK NUCLEAR PLANT - UNIT 2	0 15 10 0 0 3 1 6	8 4 - 0 3 4 - 0 0	012 05 0 12	

ON 12-23-84, WITH THE REACTOR COOLANT SYSTEM IN MODE 5 AND BEING FILLED AND VENTED, AN AUTOMATIC ENGINEERED SAFETY FEATURES ACTUATION OCCURRED. TWO CONTAINMENT HIGH RADIATION (PARTICULATE) ALARMS, AT 0203 AND 0949 HOURS, RESULTED IN TRAIN "B" AND TRAIN "A" (RESPECTIVELY) CONTAINMENT PURGE ISOLATIONS.

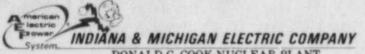
AT 0203 HOURS, A LOWER CONTAINMENT AIRBORNE PARTICULATE MONITOR (ERS-2401) ALARMED, INITIATING A TRAIN "B" CONTAINMENT VALVE ISOLA-TION (CVI). THE ALARM WAS DUE TO A LOOP 4 RTD BYPASS VALVE (2RC-107) THAT LEAKED REACTOR COOLANT INTO THE CONTAINMENT ATMOSPHERE. WHEN THE PARTICULATE ACTIVITY REACHED THE HIGH ALARM SETFOINT, AUTOMATIC ACTUATION OF THE TRAIN "B" CVI OCCURRED.

AT 0949 HOURS, A LOWER CONTAINMENT AIRBORNE PARTICULATE MONITOR (ERS-2301) ALARMED, INITIATING A TRAIN "A" CVI. THIS ALARM WAS ALSO DUE TO THE LEAKING LOOF 4 RTD BYPASS VALVE. THE PHYSICAL LOCATION OF THE ERS-2301 SAMPLE INTAKE IS FARTHER AWAY FROM 2RC-107 THAN ERS-2401, THUS REQUIRING MORE TIME FOR PARTICULATE CONTAMINATION TO REACH ERS-2301. STARTING TWO REACTOR COOLANT PUMPS AT 0855 AND 0920 HELPED INCREASE THE DISPERSION OF THE CONTAMINATION AND THE ALARM OCCURRED SHORTLY AFTERWARDS.

AFTER EACH CVI, OPERATORS VERIFIED THAT ALL REQUIRED AUTOMATIC ACTIONS OCCURRED AND PERFORMED ALL REQUIRED MANUAL ACTIONS. TO PREVENT SIMILAR TRIPS DURING STARTUP, THE AIRBORNE PARTICULATE MONITORS' TRIP FUNCTION WAS BLOCKED AS ALLOWED IN MODE 5 AND IN ACCORDANCE WITH PLANT PROCEDURES UNTIL RADIATION LEVELS STABILIZED AND PRIOR TO ENTRY INTO MODE 4.

PREVIOUS OCCURRENCES OF A SIMILAR NATURE WERE REPORTED IN LER'S: 84-6, 84-7, 84-10, DOCKET NUMBER 50-316 AND 84-12, DOCKET NUMBER 50-315.

RC Form 386A



DONALD C. COOK NUCLEAR PLANT P.O. Box 458, Bridgman, Michigan 49106 (616) 465-5901

January 22, 1985

United States Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

> Operating License DPR-74 Docket No. 50-316

Document Control Manager:

In accordance with the criteria established by 10CFR50.73 entitled Licensee Event Reporting System, the following report/s are being submitted:

RO 84-034-0

Sincerely,

WAnatt W.G. Smith, Jr.

Plant Manager

/cbm

Attachment

cc:	John E. Dolan
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