NRC Form 346 (9 63)		LICI	ENSEE EVEN	T REP	ORT	(LER)	UE NO A E	CLEAR REGULA MROVED DHE XPIRES 8/01/85	1084 COMMISSION	
PACILITY NAME (1)						P	OCKET NUMBER	(2)	PAGE (3)	
LaSalle County St	ation Un	it 1				C	15 0 0	101317 B	1 OF 0 13	
TITLE (4)										
Reactor Water Cle	ean-Up Hi	gh Diffe	erential F	IOW IS	olati	ion		VED (8)		
EVENT DATE IBI	EVENT DATE ISI LER NUMBER ISI REPORT DATI 171 OTHER					FACILITY NAM	ES DOCKET NUMBERISI			
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20 40	B(+)(1)(iii)		60.73(+)(2)(1)			50.7310)(2)(+mi)(A	1	Joba /	e in Text, NRC Form	
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		L	ICENSEE CONTACT	FOR THIS	ER (12)		· · ·	TE EPPORE N		
NAME							AREA CODE		UNBER	
Charles K. Sprun	ger, exte	nsion 7	79	FAILURE	DESCRIBE	D IN THIS REPOR	8 1 5	315.17	16 17 1611	
CAUSE SYSTEM CUMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPRDS	E,	
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	SUPPLEME	NTAL REPORT	EXPECTED (14)			4	EXPECT	FD MOI	TH DAY YEAR	
YES I'l yes, complete EXPECTED S	UBMISSION DATE	9	XNO				SURMISS DATE (10N 15)		
On May 31, 1984, an isolation of Flow on Division Feedwater Pump f adjusted to cont On June 1, 1984, an isolation of	at 1825 Reactor W s 1 and 2 low was b rol press at 1733 RWCU occu	hours w later Cl . At th being re ure. hours w irred du	ith Unit 1 eanup (CE, e time of duced and with Unit 1 e to High	at 0 RWCU this the M at 0 Diffe	pow occ isola ain S pow renti	er and rea urred due tion the team Bypas er and rea al Flow of	actor pre to High Turbine I ss Valves actor pre n Divisio	Differen Differen Driven Re were be essure a on 1. A	t 750 psig ntial eactor eing t 250 psig t the time	
of this isolatio and the blowdown	flow to	' Reacto the con	denser was	bein	g adj	usted.	was being	g placed	in service	
These two isolat to and the efflu valves closed as	ions were ents from required	the re the RW and pl	sult of th ICU System. aced the p	le den In lant	sity both in a	difference cases the safe cond	es betwee RWCU Sys ition.	en the i stem's i	nfluents solation	
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NRC Form 364

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

PACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)	PAGE (3)		
		YEAR SEQUENTIAL AEVISION NUMBER NUMBER			
LaSalle County Station Unit 1	0 5 0 0 0 3 7	3 8 4 - 0 3 0 - 0 0	012 05 0 3		

TEXT (# mere assess is required, use additional MINC Form 306A's) (17)

I. EVENT DESCRIPTION

On May 31, 1984, at 1825 hours the Unit 1 Reactor Water Cleanup (CE) System High Differential Flow (JM) alarm came up. The Licensed Operator (NSO) acknowledged the alarm and noted that isolation valves 1G33-F001 and 1G33-F004 closed as required. The NSO sent an Operator to the RWCU areas in the plant to check for any leaks. No leaks were found. The NSO notified the Shift Control Room Engineer (SCRE) of the event. NRC notification was then made.

At 1945 hours the "C" RWCU Filter Demin was placed on line and the system was restarted. No further problems occurred with RWCU System that day.

On June 1, 1984, at 1733 hours the Unit 1 Reactor Water Cleanup System High Differential Flow alarm came up again. The NSO acknowledged the alarm and noted that outboard isolation valve 1G33-F004 closed as required. The NSO sent an Operator to the RWCU areas in the plant to check for any leaks. No leaks were found. The NSO notified the SCRE of the event. NRC notification was then made.

At 1830 hours the "C" RWCU Filter Demin was placed on line and the system was restarted. No further problems occurred with the RWCU System that day.

11. CAUSE

At the time of the isolation on May 31, 1984, Unit 1 was at 0% power with reactor pressure at 750 psig. The Turbine Driven Reactor Feedwater Pump (SK) flow was being reduced and the Main Steam Bypass Valves (JJ) were being adjusted to control pressure.

At the time of the isolation on June 1, 1984, Unit 1 was at 0% power with reactor pressure at 250 psig. The "C" RWCU Filter Demin was being placed in service and the blowdown flow to the condenser was being adjusted.

The cause of these occurrences was due to the design characteristics of the differential flow leak detection scheme. This logic involves three flow loops. One "sees" input to the system and two "see" outlets from the system. Due to the differences in water temperature in various points of the system each flow loop is calibrated for a different temperature (density) of water. All these calibrations are based on reactor water being at rated conditions under steady state conditions.

To allow for transients a 45 second time delay is built into the differential flow isolation trip. However, at other than rated conditions, such as those mentioned above, actuations of this trip logic have occurred due to the instruments "seeing" other than design conditions.

NRC Form 364 19-631	LICENSEE EVENT RI	JATION	TON APPROVED OME NO. 3150-0104 EXPIRES. 6/31/85				
FACILITY NAME (1)		DOCKET NUMBER (2)	L	ER NUMBER (6)	PAGE (3)		
			YEAR	SEQUENTIAL .	NUMBER		
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TEXT III	and a new rad, use established MRC Form 3054 (17)						
111.	PROBABLE CONSEQUENCES OF TH	HE OCCURRENCES					
•	In both instances the RWCU condition. The loss of the of the unit.	System shut down and p e RWCU System did not u	olaced unduly a	the plant affect th	in a e oper	safe	
IV.	CORRECTIVE ACTIONS						
	Applicable procedures are Operators that this can oct tions and to give guidance hood of isolations of RWCU	being reviewed for poss cur during plant condit on actions which can b occurring on different	sible re tions o be taken tial flo	evision t ther than n to redu ow. (AIR	o aler rated ce the 01-84	t the condi- likeli -67091)	-
۷.	PREVIOUS OCCURRENCES						
	None.						
٧١.	NAME AND PHONE NUMBER OF T	HE PREPARER					
	Charles K. Sprunger, 815/3	57-6761, extension 779	•				



Commonwealth Edison LaSalle County Nuclear Station Rural Route #1, Box 220 Marseilles, Illinois 61341 Telephone 815/357-6761

June 18, 1984

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Dear Sir:

Reportable Occurrence Report #84-030-00, Docket #050-373 is being submitted to your office in accordance with 10 CFR 50.73.

4 / Didnest 4/2/14

IE22

G. J. Diederich Superintendent LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director INPO-Records Center File/NRC