# LICENSEE EVENT REPORT (LER)

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Ye	s (If	yes,	comp	olete	EXP	ECTE	D SU	BMIS	SION	DAT	TE)		X	NO					1 June					
ABSTR	ACT (L	imit	to 1	400	spac	es.	i.e.	app	roxi	mate	elv f	ifter	en si	ngle-s	space	typ	ewrit	ten li	ines)	(16)				

During the performance of LOS-HP-Q1, "High Pressure Core Spray (HPCS) Inservice Test," the HPCS water leg pump discharge check valve (1E22-F007) failed to close on reverse flow as designed. The HPCS system was consequently declared inoperable at 1110 hours on March 7, 1987, and a 14-day timeclock initiated in compliance with Technical Specification 3.5.1. At the time of this event, Unit 1 was operating at 55% thermal power.

The cause of this event was the existence of surface irregularities on the valve seat, which prevented the valve from properly seating on reverse flow. The valve was repaired under Work Request L66145. The HPCS water leg pump discharge check valve was successfully cycled and tested per LOS-HP-Q1 and the HPCS system declared operable at 1900 hours on March 8, 1987. Division I and Division II Emergency Core Cooling Systems were fully operable throughout this event. The Reactor Core Isolation Cooling System was also available if required during the event.

> 8704070360 870331 PDR ADOCK 05000373 S PDR

FACTLETTY MANE (1)	1 DOCKET	NUMBE	R (2)			I LE	RN	UMBER	(6)							Pa	ge (	3)	
FACILIT NAME (1)	DUCKET NOTICEN (E)						Year		Sequential Number		ial	11/1	Revision Number			1			
LaSalle County Station Unit 1	015	01	0 1 0	3	7  3	8	7	-	0	11	1	-	0	0	01	2	OF	0	~~
TEXT PLANT AND SYSTEM IDENTIF	ICATION																		
General Electric - Energy Industry Ide	Boiling W	ater R on Sys	teacto	(EIIS)	code	s are	e id	entif	fied	in t	he:	text	as [	XX].					
A. CONDITION PRIOR TO	EVENT																		
Unit(s):1	_	Even	nt Dat	.e: _	3/07/	87			Even	t Ti	me :	111	10 ho	urs					

Mode(s) Name:

Run

B. DESCRIPTION OF EVENT

Reactor Mode(s): 1

During the performance of LOS-HP-Q1, "High Pressure Core Spray (HPCS) [BG] Inservice Test," the HPCS water leg pump discharge check valve (1E22-F007) failed to close on reverse flow as designed. The HPCS system was consequently declared inoperable at 1110 hours on March 7, 1987, and a 14-day timeclock initiated in compliance with Technical Specificatin 3.5.1. During the previous performance of LOS-HP-Q1 on March 6, 1987, the HPCS water leg pump discharge check valve did close, but required physical assistance by the Equipment Operator. The subsequent retest of LOS-HP-Q1 the next day (March 7, 1987) confirmed valve 1E22-F007 would not fully seat without physical assistance. For conservatism, the 14-day timeclock was begun at 1845 hours on March 6, 1987, the time of the original surveillance. Exercise testing of this valve is required by ASME Boiler & Pressure Vessel Code, Section XI, and Technical Specification 4.0.5. Repairs were initiated to correct the problem under Work Request L66145. The HPCS water leg pump discharge check valve was last verified operable during the performance of LOS-HP-Q1 on December 5, 1986. At the time of this event, Unit 1 was operating at 55% thermal power.

Power Level(s): 55%

#### C. APPARENT CAUSE OF EVENT

The cause of this event was the existence of surface irregularities on the valve seat, which prevented the valve from properly seating on reverse flow. These surface irregularities have been attributed to normal wear on the valve.

#### D. SAFETY ANALYSIS OF EVENT

The consequences of this event were minimal. Division I and Division II Emergency Core Cooling Systems (ECCS) were fully operable. The Reactor Core Isolation Cooling (RCIC) [BN] System was also operable if required.

	ICENSEE EVENT REPORT (LER) TE	XT CONT	INUATI	ON					
FACILITY NAME (1)	DOCKET NUMBER (2)	LER I	NUMBER	(6)	P	age (	(3)		
		Year	11/1	Sequential Number	11/1	Revision Number			
LaSalle County Station Unit 1	0   5   0   0   0   3   7   3	817	-	0   1   1	-	0   0	01 3	OF	01 :

TEXT

## D. SAFETY ANALYSIS OF EVENT (Continued)

The purpose of the HPCS water leg pump discharge check valve is to isolate the HPCS System's low pressure piping from its high pressure piping during system operation. In the event this check valve fails to seat properly during system operation, the HPCS low pressure piping would still have been protected by a relief valve. The HPCS system would have been capable of injecting water into the reactor vessel if required, but degraded in the fact that a small amount of flow would be diverted through the leaking check valve to the Suppression Pool (PC) [NH] via the relief valve.

### E. CORRECTIVE ACTIONS

The HPCS water leg pump discharge check valve was disassembled under Work Request L66145. An inspection of the valve internals revealed some irregularities on the seating surface. The valve seat was cleaned, lapped, and the valve reassembled. The HPCS water leg pump check valve was successfully cycled and tested per LOS-HP-Q1 on March 8, 1987. A visual examination of the valve under system pressure was also performed in accordance with ASME Boiler & Pressure Vessel Code, Section XI. The HPCS System was declared operable at 1900 hours on March 8, 1987.

F. PREVIOUS EVENTS

LER Number Title 373/86-042-00 Failure of High Pressure Core Spray Water Leg Pump Discharge Check Valve Due to Dirty Valve Disc

G. COMPONENT FAILURE DATA

None.



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

March 31, 1987

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

Dear Sir:

Reportable Occurrence Report #87-011-00, Docket #050-373 is being submitted to your office in accordance with 10CFR50.73(a)(2)(v).

G. J. Diederich

<sup>7</sup>G. J. Diederich Station Manager LaSalle County Station

1.622

GJD/HTV/kg

Enclosure

xc: Nuclear Licensing Administrator NRC Resident Inspector NRC Region III Administrator INPO - Records Center