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FACILITY NAME (1)								DOC	KET NUMBER	(2)		PAGE (3)			
Limerick Generating Station, Unit 1									0500035	2		1 OF 3			
title (4) Uni	t 1 R	eactor Co	ore Isolatio	n Cooling ((RCIC) P	CIV disc	;overe	d ino	per	able result	ing in a TS	non-co	mplianc	e	
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MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEA	NR	FACILITY NAMI	E		DOCKET NUM	0	
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MODE (9)						20.2203(a)(2)(v)				x 50.73(a)(2)(i)			50.73(a)(2)(viii)		
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			20.2203(a)(2)(iii)			50.36(c)(1)				50.73(a)(2)(v)			Specify in Abstract below		
			20.220	3(a)(2)(iv)		50.36(c)	(2)			50.73(a)(2)(vii)			or in NRC Form 366A		
					LICENSE	EE CONTA	CT FO	R THIS	S LEI						
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К.	P. Be	rsticker,	Manager -	Experience	Assessi	ment					(610)) 718-3	3400		
			COMPLET	LE ONE LINE	FOR EACH	COMPON	IENT F/	AILURE	e de		THIS REPORT	(13)			
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On September 25, 1999 at 18:00 hours, an operations supervisor discovered that the Unit 1 RCIC vacuum breaker outboard primary containment isolation valve (PCIV) isolation logic had been inoperable for a period that exceeded the Technical Specification (TS) allowed outage time (AOT). This discovery occurred during a review of historical clearance data. This event was caused by personnel error when logic control fuses were removed without accounting for the effect on the isolation logic portion of the circuit.

NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION (6-1998)

LICENSEE EVENT REPORT (LER)

TEXT CONTINUATION

FACILITY NAME (1)	DOCKET (2)		LER NUMBER	(6)	PAGE (3)
	05000	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2 OF
Limerick Generating Station Unit 1	-352	1999	- 012 -	00	3

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

Unit Conditions Prior to the Event

LGS Unit 1 was in Operational Condition (OPCON) 1 (Power Operation) at 100% power at the time of this event. There were no other systems, structures, or components inoperable that contributed to the event.

Description of the Event

On September 25,1999 at 18:00 hours, an operations supervisor was performing a review of a clearance in history status while planning the clearance for a similar maintenance activity. He discovered that logic control power fuses (EIIS:FU) specified on the history clearance affected the isolation logic portion of the circuit and resulted in defeating the automatic isolation capability of the Unit 1 RCIC exhaust vacuum breaker outboard PCIV (EIIS:ISV).

A subsequent review of past maintenance activities determined the following periods of inoperability of PCIV HV-049-1F080 due to removal of these logic control power fuses.

On 06/11/96 at 17:48 hours, clearance 96002263 was applied for Unit 1 RCIC system maintenance. The "A" relay logic power fuses 10C621 E51A-FU-1 and FU-2 were removed causing HV-049-1F080 to become inoperable. The clearance was removed on 06/14/96 at 10:00 hours and the PCIV was restored to operable status (2 days, 16 hours and 12 minutes duration).

On 09/07/99 at 03:29 hours, clearance 99003064 was applied for Unit 1 RCIC system maintenance. On 09/07/99 at 20:34 hours, the clearance was revised to add removal of the logic control power fuses 10C621 E51A-FU-1 and FU-2 causing HV-049-1F080 to become inoperable. The clearance was removed on 09/09/99 at 08:25 hours and the PCIV was restored to operable status (1 days, 11 hours and 51 minutes duration).

Technical Specification 3.6.3, Primary Containment Isolation Valves, requires that with one or more PCIVs inoperable, maintain at least one PCIV operable in each affected penetration that is open and within 4 hours either restore operability or isolate the penetration. Otherwise, be in Hot Shutdown within the next 12 hours and in Cold Shutdown within the following 24 hours.

Contrary to the above requirement, this PCIV remained inoperable for periods of approximately 64 hours and 36 hours thus exceeding the AOT for this LCO. Therefore, this event was determined to be reportable under the requirements of 10CFR50.73(a)(2)(i)(B).

Analysis

The actual consequences of this event were minimal. There was no release of radioactive material to the environment. The potential consequences of this event were also minimal since the redundant PCIV in this penetration remained operable for the duration of this event.

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Limerick Generating Station Unit	1	-352	1999	- 012 -	00	3
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Cause of the Event						
The supervision and her as within a		when the impost of	fromou	ina tha lagia	control no	Nor
The event was caused by cognitive places was not comprehended during					control po	wei
Corrective Actions						
The following corrective actions hav	a haan aamalati	ad.				
1. The PCIV has been restored to op	•	54.				
2. Operations training has been cond		earance and taggi	ng manu	ial requireme	nts for revi	ew,
approval and authorization of clearar	nces. This traini	ing included the re	quireme	nt for valida	tion of info	rmation
copied from historical clearance usin	ig controlled plar	nt drawings.				
3. The history clearance has been el	ectronically lock	ed to prevent futu	ure dupli	cation.		
4. Library clearances have been crea	ited for future w	ork on valves H	IV-050-1	F045 and H	V-050-2F04	45.
The following corrective action is pla	anned:					
Library clearances will be developed,	, including indep	endent technical	reviews,	for all Emer	gency Core	Cooling
Systems (ECCS) motor operated value						-
Previous Similar Occurrences:						
	rrences					
Previous Similar Occurrences: There were no previous similar occu	rrences.					
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