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November 18, 2005

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

> Limerick Generating Station, Unit 1 Facility Operating License No. NPF-39 NRC Docket No. 50-352

Subject: LER 1-05-004 Minimum Critical Power Ratio Limiting Condition For Operation Noncompliance

This Licensee Event Report (LER) addresses an evaluation of the impact of a General Electric Part 21 report dated 9/20/05 which determined that Limerick Unit 1 operated in non-compliance with Technical Specification 3.2.3, Minimum Critical Power Ratio (MCPR), on two occasions when the MCPR was less than the limiting condition for operation (LCO). These periods of operation exceeded the allowance stated in the TS action statement.

Report Number:1-05-004Revision:00Event Date:May 29, 2004Discovered Date:September 20, 2005Report Date:November 18, 2005

This LER is being submitted pursuant to the requirements of 10CFR50.73(a)(2)(i)(B).

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely. an an that the second second Ron J. DeGregorio

Vice President – Limerick Exelon Generation Company, LLC

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cc: S. J. Collins, Administrator Region I, USNRC S. L. Hansell, USNRC Senior Resident Inspector, LGS

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## SUMMARY OF EXELON NUCLEAR COMMITMENTS LS-AA-117-1003 Rev. 2

The following table identifies commitments made in this document. (Any other actions discussed in the submittal represent intended or planned actions. They are described to the NRC for the NRC's information and are not intended as regulatory commitments.)

Commitment #1

Committed Date (or Outage): NA

None

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION								APPROVED BY OMB: NO. 3150-0104 EXPIRES: 06/30/2007										
(6-2004)								Estimated burden per response to comply with this mandatory collection request: 50 hours. Reported lessons learned are incorporated into the licensing										
[ ]								request: 50 hours. Heported lessons learned are incorporated into the licensing process and led back to industry. Send comments regarding burden estimate to										
	LICENSEE EVENT REPORT (LER)								process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by intermet e-mail to Infocollects @nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection									
									Infocollects Onro.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104). Office of Management and Burdnet									
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	1. FACILITY NAME Limerick Generating Station, Unit 1										0352		5. F		)F 3			
4. TITLE												·						
		ritical P	ower F	Ratio Lin	niting	Conditio	n For O	peratio	n No	ncc	omplia	nce						
5. E	VENT D	ATE	6.	LER NUM	BER	7.	7. REPORT DATE			8 OTHER			R FACILITIES INVOLVED					
			SEQUENTIAL REV			v — — — — — — — — — — — — — — — — — — —				FACILITY NAME					DOCKET	DOCKET NUMBER		
MONTH	DAY	YEAR	YEAR	NUMBE			DAY	YEAR							050	00		
_05_	29	2004	2005	004.	- 0	11		-2005							DOCKET	NUMBER		
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR§: (Check all that apply)																		
20.2201(b) 20.2203(a)(3)(i) 50.73(a)(2)(i)(C) 50.73(a)(2)(vii)																		
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ļ			20.2	203(a)(2)(i	)		50.36(c)(1)				50.73(a)				3(a)(2)(ix)	(A)		
10. POW	ER LEV	EL	20.2	203(a)(2)(i 203(a)(2)(i	) N		50.36(c)(1) 50.36(c)(2)					(2)(iv)(A) (2)(v)(A)			3(a)(2)(x) I (a)(4)			
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						12. LICEN	ISEE CON	TACT FO	RTHIS	S LE	R							
FACILITY NAME Robert E. Kreider, Manager- Regulatory Assurance												•	rea Code)					
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	r		13. COM					NENT F	FAILURE DESCRIBED IN THIS REPORT									
CAUSE SYSTEM		SYSTEM			MANU- CTURE	REPORTABLE TO EPIX		CAUSE			SYSTEM COMPONEN			T FACTURER		ORTABLE O EPIX		
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14. SUPPLEMENTAL REPORT EXPECTED											XPECTED	M	IONTH	DAY	YEAR			
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ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten line															<u> </u>			
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FACILITY NAME (1)	DOCKET (2)		LER NUMBER (6)		PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
imerick Generating Station, Unit 1	05000352	2005	004	- - 00	2	OF	3
ARRATIVE (If more space is required, use additional	copies of NRC Form 366	A) (17)					
Unit Conditions Prior to the Ever	nt						
Unit 1 was in Operational Condi approximately 94% power return on September 11, 2004 at appro rod pattern adjustmentThere w contributed to this event.	ing to 100% power pximately 94% pow	r from a co er returnir	ontrol rod patte og to 100% pov	rn adjustme ver from a d	ent an contro	1	
Description of the Event							
On September 20, 2005 Genera The report identified an error in the deformation of the Zircaloy space	he GE-14 ATLAS	critical pov	ver test results	due to	RC.		
An evaluation of Limerick Unit 1 Technical Specification 3.2.3 Mi evaluation of Unit 2 determined operating cycle.	nimum Critical Pow	er Ratio c	occurred on two	o occasions		•	
On May 29, 2004, a control rod p determined that a noncompliance approximately six hours. The per (MFLCPR) value was 1.03.	e with Technical S	pecificatio	n 3.2.3 occurre	ed for	luatior	1	
On September 11, 2004, a contr evaluation determined that a nor approximately seven hours. The	ncompliance with T	echnical S					
This event involved periods of op Therefore, this LER is being sub 10CFR50.73(a)(2)(i)(B).				Specification	ns.		
Analysis of the Event		,					
There were no actual safety con consequences of this event were		ated with t	his event. The	potential s	afety		
There was no adverse impact to occurred during the times when challenged.					sient		

NRC FORM 366AU.S. NUCLEAR RI	EGULATORY COMMIS	SSION										
	EPORT (LER)											
	(1)	DOCKET (2)	[L	ER NUMBER (6)		P	AGE (3)					
			YEAR	SEQUENTIAL	REVISION NUMBER							
Limerick Generating Station,		05000050			-							
NARRATIVE (If more space is requir	<u></u>	05000352	2005	- 004 -	00	3	OF	3				
Cause of the Event	Cause of the Event											
	The event was caused by a deformation in the Zircaloy spacer during GE-14 ATLAS critical power testing. This deformation resulted in a non-conservative error in the test results.											
Corrective Action C	ompleted		·····	$\sim$	·							
	An evaluation of Unit 1 and Unit 2 vulnerability to the Part 21 condition has been completed. No compensatory measures are required at this time.											
implemented to pro	To prevent a similar issue from occurring on Unit 2, an administrative limit was implemented to provide additional margin to the calculation of the MFLCPR prior to Unit 2 entering the portion of the operating cycle where the Part 21 issue is applicable.											
Corrective Action P	Corrective Action Planned											
	GE is currently reviewing previous cycles for Unit 1 and Unit 2, which GE will complete by December 31, 2005.											
	A new databank and coding will be installed in Unit 1 and Unit 2 3D Monicore. This action will be completed by March 31, 2006.											
Previous Similar Oc	Previous Similar Occurrences											
Component data:			ана алана алан тараалан тараа Тараалан тараалан тара									
Cause:	В	(Design, Manu Construction/		1)								
System:	AC	Reactor Core		7								
Component:	N/A	Concrol Flact	: io									
Manufacturer: Type:	G080 GE-14	General Electi Fuel	IC .									
Model:	N/A		•					Í				
Reportable to EPIX												

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