

10CFR50.73

May 6, 2005

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

> Limerick Generating Station, Unit 2 Facility Operating License No. NPF-85 NRC Docket No. 50-353

Subject: LER 2-05-001, Unit 2 Core Alterations With Source Range Monitors Inoperable

This Licensee Event Report (LER) addresses a Limerick Unit 2 condition prohibited by Technical Specifications in that core alterations were conducted while the Source Range Monitors (SRMs) were inoperable. The SRMs were inoperable due to a failure of the audible alarm function. SRM visual alarms, indications and rod block functions remained functional.

2-05-001
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March 12, 2005
March 12, 2005
May 6, 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,

Original signed by

Ron J. DeGregorio Vice President – Limerick Exelon Generation Company, LLC

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

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 regulatory commitments.)

Commitment #1

Committed date (or "outage"): 12/1/05

An evaluation of Operation's procedures will be performed to identify those affected by infrequently used refuel and outage related TS. Enhancements to the affected procedures will be implemented as required to ensure rule-based evaluations of TS impacts are performed.

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NRC FOR (6-2004)	RM 366			U.S. NUCLI	EAR RE	GULATOR		SSION	APPROVE	ED BY OMB	: NO. 3150-01	04	EXPIRES:	06/30/2007		
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FACILITY NAME John G. Hunter, Acting Manager – Regulatory Assurance					ance				61	0-718-3400	R (Include All	ea Code)				
 	T		13. CON	IPLETE ONE	LINE	FOR EACH	I COMPO	NENT I	AILURE	DESCRIBI	ED IN THIS F	REPORT				
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ABSTRA	Refue rende remai requin core a restor annur functi	t to 1400 eling op red inc ined fu rement alteration red and nciator ion.	spaces, peratio perabl nctiona for an ons, wl l core a s was r	ns were in e as a rest al. The of SRM auc hich resul ilterations revised to	n prog ult of perato lible ted ir were addre	5 single-sp gress on loss of ors failed alarm w a cond resume ess the T	Unit 2 the SRI d to rec as not s ition pr ed. The IS impa	when M aud ogniz satisfi ohibit proc	the sou lible ala e that th ed prior ed by T edure fo a loss o	arce ran arm func ne Tech to gran TS. The or loss o f the SR	ge monito etion; SRI nical Spec tting perm SRM aud f main co RM audibl	ors (SRMs M visual a cification (nission to c dible alarn ontrol roon le alarm) were larms (TS) conduct 1 was			

FACILITY NAME (1)	DOCKET (2)		LER	NUMBER (6)		F	PAGE (3)	
		YEAR	S	EQUENTIAL NUMBER	REVISION NUMBER			
Limerick Generating Station, Unit 2	05000353	2005		001	00	2	OF	4
NARRATIVE (If more space is required, use addition	al copies of NRC Form 366	A) (17)						
Unit Conditions Prior to the Eve	ent							
Unit 2 was in Operational Conc coolant temperature and zero p were no structures, systems or	dition (OPCON) 5 (R psig reactor pressure components out of	efueling) a e conducti service th	at 104 ng re at coi	4 degrees fueling op ntributed	Fahrenh berations. to this eve	eit react There ent.	or	
Description of the Event								
On Saturday March 12, 2005, a Control Room (MCR) was cont equipment failure. Fuses were ON-122, Loss Of Main Control 13 alarm panels in that the aud functional. A dedicated individ panels and alert the duty reacted	at 07:43 hours, the a inuously sounding a removed to silence Room Annunciators lible alarms were un dual with no concurre or operator when an	annunciato ind could r the horn. 5. This eq available ent duties y visual al	or (EII not be The uipme while was a arms	S:ANN) h silenced operators ent failure the visua assigned were pre	norn for U I due to an s entered adversel I alarms r to monito sent.	nit 2 Mai procedu y affecte emained r the ala	in Ire ed d rm	
Technical Specification (TS) 3. one source range monitor (SRI alarm became inoperable when did not immediately recognize prohibited by TS.	9.2 Refueling Opera M) (EIIS:PI) have an h the alarm horn fuse this. At 12:11 core a	itions – Ins audible a es were re alterations	strum Iarm emove resu	entation i in the cor ed but the med resu	requires th htrol room licensed lting in a o	nat at lea . This operato conditior	ast ers n	
Following shift turnover the lice alarm and suspended core alte dedicated individual monitoring audible alarm function and per was determined that core alter review of the SRM operability o	ensed operators ider erations. Operations the visual alarms of mitted core alteration ations be suspended determination.	ntified the shift man ould be cr ns to conti d until the	TS re agen edite inue. plant	equiremen nent decid d as perfo Following staff coul	It for an S ded that th prming the g addition d perform	RM aud e SRM al reviev further	ible v, it	
At 21:50 the alarm horn was re Concurrently the plant staff det dedicated individual as the aud	stored to operable s ermined that SRM o lible alarm function.	atatus; cor perability	e alte was i	rations re not suppo	esumed at orted by us	21:58. se of the	•	
This event involved a condition being submitted pursuant to the	prohibited by Techr e requirements of 10	nical Spec)CFR50.73	ificati 3(a)(2	ions. The 2)(i)(B).	erefore, th	is LER i	S	

(1-2001) LIC	RM 366AU.S. NUCLEAR REGULATORY COL ENSEE EVENT REPORT (LEF	mmission R)						
	FACILITY NAME (1)	, DOCKET (2)	L	ER NUMBER (6)		PAGE (3))
			YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Limeric	ck Generating Station, Unit 2	05000353	2005	001	- 00	3	OF	4
NARRAT	TIVE (If more space is required, use additional	copies of NRC Form 366A	A) (17)					
	Analysis of the Event							
	Analysis of the Event There were no actual safety con consequences of this event were function but retained the visual a individual. SRM count rate, perio addition, a reactor operator was into the core and was directed by count rate doubled between step Specifications General Electric F indication of count rate is require The alarm horn is classified as n the operability of the SRMs. The to the licensed operator failure to Cause of the Event The cause of the event was that based evaluation of infrequently Corrective Action Completed The SRM audible alarm function The procedure for loss of main c of a loss of the SRM audible alar Corrective Action Planned	sequences associa e also minimal. The alarm function and w od indications and i monitoring SRM co y procedure to susp os. Further, NUREO Plants, BWR/4) doe ed. non-safety related e e non-safety related e e non-safety related e o identify the impact procedural guidance used refuel and out was restored.	ted with t e affected were conti rod block ount rate a bend com G-1433 R s not requ quipment I classifica t on SRM ce was les tage relat	his event. T alarms lost inuously mor functions rer as each fuel ponent move ev.3 (Standa lire an SRM . However, i ation of the a operability. ss than adec ed TS.	he potent the audibi nitored by mained fu assembly ement if a ard Techn alarm fun it is requir alarm horr	ial saf le alai a dec nctior was i ical iction, ed to n cont	rety m dicated hal. In inserted M only support ributed rule-	
	An evaluation of Operations' pro infrequently used refuel and outa be implemented as required to e This action will be completed by	cedures will be per age related TS. En ensure rule-based e December 1, 2005	formed to hanceme valuation:	identify thos nts to the aff s of TS impa	se affected ected pro cts are pe	d by cedur erform	es will ied.	
	Previous Similar Occurrences							
	There were two previous similar operations. LER 1-03-002 was s were conducted with refueling er	occurrences of a c submitted for a prev nclosure secondary	ondition p /ious evei / containm	rohibited by nt when Unit nent integrity	TS during 2 core all inoperab	g refue teratio le. L	eling ons ER 2-	

FACILITY NAME	FACILITY NAME (1)			LER NUMBER (6)		PAGE (3)		
			YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
erick Generating Station, I	Unit 2	05000353	2005	001	00	4	OF	
RATIVE (If more space is requir	red, use addition	al copies of NRC Form 366	A) (17)	001	00	-	0.	
Component data:								
System:	IB (/	Annunciator System)					
Component:	ANN (/	Annunciator)						
Manufacturer: Model number:	170E (E 5531-P1	=dwards)						
Model Humber.	5551-11							