Nuclear

Exelon

10CFR50.73

June 12, 2008

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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 2008-003-00, Condition Prohibited By Technical Specifications Due To Inoperable Radiation Monitor

This Licensee Event Report (LER) addresses an event that resulted in a condition prohibited by Technical Specifications due to an inoperable process radiation monitor on the reactor enclosure cooling water system.

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

There are no commitments contained in this letter.

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

Sincerely,

Christigh I. Muli

Christopher H. Mudrick Vice President - Limerick Generating Station Exelon Generation Company, LLC

cc: S. J. Collins, Administrator Region I, USNRC E. M. DiPaolo, USNRC Senior Resident Inspector, LGS

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NRC FORM 366A			U.S. NUCLEA	R REGULATOP	Y COMMISSION
	E EVENT B	EPORT	(LER)		
CON	TINUATION		(, Г		
1. FACILITY NAME	2. DOCKET		6. LER NUMBE	R	3. PAGE
Limerick Generating Station, Unit 2	05000353	YEAR	SEQUENTIAL		2 of 5
		2008	003	00	
		2000	000		
NARHATIVE (If more space is required, use additional cop	oles of NHC Form	366A) (17)			
Unit Conditions Prior to th	ha Evont				
Unit 2 was in Operational (	Condition	(OPCC	N) 1 (Pc	wer	
Operation) at approximately	y 100% pc	wer.	There we	ere no	
structures, systems or comp	ponents c	ut of	service	that	
concributed to this event.					
Description of the Event					
	Timonial	ᅚᅚᆓᆣ	2	onsting	<b>~</b> +
on Tuesday April 15, 2008, approximately 100% power as	Limerick	vnit rveill	2 was op	erating	at
(STC) was performing a rev	iew of a	comple	eted func	ctional t	test
on the reactor enclosure co	ooling wa	ter ra	diation	monitori	ng
system (RECW-RMS) (EIIS:CC	) (EIIS:I	L). I	he STC i	dentifie	ed
that the "as left" alarm (1	EIIS:RA)	setpoi	nt was c	locumente	ed as
"required limit" of 1050 C	M), WHICH PM The	strc in	formed (	nan the Deration	
shift management that the	radiation	. monit	or was p	otential	lv
inoperable due to the docu	mented te	st dat	a. An i	nvestiga	ation
determined that the test d	ata was a	ccurat	e and th	ne radiat	ion
monitor was inoperable. Of the radiation monitor inop	perations	shift	: managem	lent decl	ared
and directed obtaining a g	rab sampl	e ever	v 24 hou	rs	Jurs
	raw sampr		, <u> </u>		•
An investigation determine	d that th	e radi	ation mo	nitor wa	is
rendered inoperable on Mar	ch 24, 20	08, du	iring the	e last	· ¬ ¬
to recalibrate the alarm s	nal test etnoint a	when t	ine techn	the test	alled
The radiation monitor was	restored	to ope	erable st	atus on	April
16, 2008, at 1030 hours, f	ollowing	succes	sful per	formance	e of
the functional test. The	radiation	monit	or was i	noperabl	le for
approximately 23 days.					x
Technical Specification (T	S) 3 3 7	1 rem	lires one	operah	e .
RECW radiation monitor cha	nnel "at	all ti	.mes." W	With the	
radiation monitor inoperab	le, Table	3.3.7	.1-1 Act	ion 72	
applies. Action 72 requir	es obtair	ing an	nd analyz	ing RECV	V grab
samples every 24 hours. T	ne requir ion monit	ed gra	ub sample	es were r	lot
	τοπ πισπτί	.or was	arscove	ered to f	

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NRC FORM 366A (9-2007)

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NRC FORM 366A U.S. NUCLEAR REGULATORY COMM						
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CON		SHEE	() Г			
1. FACILITY NAME	2. DOCKET		6. LER NUMBEF	3	3. PAGE	
Limerick Generating Station, Unit 2	05000353	YEAR	SEQUENTIAL	REV	3 of 5	
		2008	003	00		
		2000	003	00		
NARRATIVE (If more space is required, use additional co	pies of NRC Form	366A) (17)				
inoperable following the S	TC identi	ficati	on of th	e test		
performance error.						
This event resulted in a c	ondition	prohib	ited by	Techni	cal	
Specifications. Therefore	, this LE	R is b	eing sub	mitted		
pursuant to the requiremen	ts of 10C	FR50.7	3(a)(2)(	i)(B).		
Analysis of the Event						
There were no actual safet	v consequ	ences	associat	ed wit	h this	
event. The potential safe	ty conseq	uences	of this	event	were	
minimal. The RECW-RMS Hi-	Hi alarm	setpoi	nt was n	ot wit	hin the	
required range but the Hi	alarm_set	point	was func	tional	and	
would have alerted Operati	ons of an	incre	ase in R	ECW rad	diation	
count rate was continuous	v indicat	ed and	laition, L recorde	d in t	CW-RMS he	
control room and was monit	ored duri	ng rou	tine con	trol pa	anel	
walkdowns. The service wa	ter radia	tion m	onitor r	emaine	đ	
operable during the affect	ed period	l.				
levels are continually mea	e instrum sured th	ent en o alar	sures tri m is ini	at rad. tiatod	udtion when	
the radiation level trip s	etpoint i	s exce	eded, an	d suff:	icient	
information is available o	n the pla	nt par	ameter t	o moni	tor and	
assess the variable follow	ing an ac	cident	•			
The DECK DWG is desired to		1 1			7	
The RECW-RMS is designed t	o detect	leakag	dog o bo	rrior	nated	
release to the environment	. Servic	e wate	r provid	les the		
cooling medium for the REC	W heat ex	change	r and is	also		
designed with a process ra	diation m	onitor	•			
		_				
The RECW-RMS is described	in Limeri	ck UFS	AR, Sect	ions 7	.7.9.12	
and 11.5.2.2.13. The syst	em 15 Cla monitorin	SSIIle	asan m (demo	on-sai	есу	
system provides an upscale	/downscal	e trin	signal	to an		
annunciator in the control	room. I	'he sys	tem prov	ides n	0	
control trip function. Ra	diation d	lata is	continu	ously		
recorded in the control ro	om.					
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		U.S. NUCLE	AR REGULATOF	RY COMMISSION						
EE EVENT R	EPORT	(LER)								
ONTINUATION	SHEE	Γ								
1. FACILITY NAME 2. DOCKET 6. LER NUMBER 3. PAGE										
05000353	YEAR	SEQUENTIAL NUMBER	. REV NUMBER	4 of 5						
	2008	003	00							
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copies of Mile Folin	500A) (17)									
by a less	than a	dequate	self che	eck by						
the as fou	nd dat	a durin	g the	1 7						
ince. In a	dditio	n, the j	peer chec	ck and						
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ed										
_	_		_							
vas perform	ed to	reinfor	ce the							
ing the ba	rriers	that a	re design	lea						
ol (I&C) wc	rk gro	up surv	eillance	test						
lependent v	rerific	ation a	nd initia	al						
ita table.	I&C s	upervis	ors revie	ew and						
e test data	table	•								
1										
		·								
viewer trai	ning w	ill be	performed	l to						
.sk element	s of r	eviewin	g surveil	lance						
ıces										
milar occu	irrence	es of re	portable							
ment due t	o a su	irveilla	nce test	error						
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actor Enclo	osure (	Cooling	Water							
diation Mon	nitor									
80 General	Elect	ric Comr	anv							
			Line							
JUJZ84AAGU	01									
JCJZ84AAGU	01									
JCJ284AAGU	01									
5C3284AAGU	01		· ·							
	EE EVENT R NTINUATION 2. DOCKET 05000353 copies of NRC Form by a less the as fou ince. In a 2 test data 2 test data 3 tiewer trai 3 tiewer trai	EE EVENT REPORT NTINUATION SHEET 2. DOCKET 05000353 YEAR 2008 copies of NRC Form 366A) (17) by a less than a the as found dat ince. In additic test data was 1 ced vas performed to ring the barriers ol (I&C) work ground the barriers ol (I&C) work ground the barriers ol (I&C) work ground test data table. 1. Exc set the barriers ol (I&C) work ground the barriers of the barriers actor the barriers actor functions of the	U.S. NUCLEA EE EVENT REPORT (LER) NTINUATION SHEET 2. DOCKET 6. LER NUMBER 2008 003 CODIES Of NRC Form 366A) (17) by a less than adequate the as found data durin ince. In addition, the test data was less that ied vas performed to reinfor ving the barriers that a ol (I&C) work group surv lependent verification at at table. I&C supervise test data table. A viewer training will be sk elements of reviewin ices milar occurrences of re- oment due to a surveilla actor Enclosure Cooling diation Monitor SH-013-2K606 80 General Electric Comp	U.S. NUCLEAR REGULATOF EE EVENT REPORT (LER) <u>NTINUATION SHEET</u> 2. DOCKET <u>6. LER NUMBER</u> 05000353 <u>YEAR SEQUENTIAL REV</u> NUMBER NUMBER 2008 003 00 copies of NRC Form 366A) (17) by a less than adequate self che the as found data during the ince. In addition, the peer chec test data was less than adequate ted vas performed to reinforce the ring the barriers that are design ol (I&C) work group surveillance dependent verification and initia at table. I&C supervisors revise test data table. d viewer training will be performed sk elements of reviewing surveil nces milar occurrences of reportable oment due to a surveillance test actor Enclosure Cooling Water diation Monitor SH-013-2K606 80 General Electric Company						

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NRC FORM 366A 9-2007)				U.S. NUCLEAR	REGULATOR	COMMISSION			
LICENSEE EVENT REPORT (LER)									
			N SHEE		2 1	3 PAGE			
Limerick Generating Station, Unit 2		05000353	YEAR	SEQUENTIAL	REV	5 of 5			
			2008						
			2000	003	00				
NARRATIVE (If more space is required,	use additional cop	ies of NRC Form	a 366A) (17)						
References:									
ST-2-013-600-2 Rad	liation Mo	nitoring	j – Rea	actor Enc	losure				
Cooling Water Syst	cem Monito	or Functi	onal ?	Fest (RIS	H-13-2K6	06)			
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