Exelon Nuclear Limerick Generating Station P.O. Box 2300 Sanatoga, PA 19464

10CFR50.73

August 20, 2001

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

LER 2-01-002 Reactor SCRAM on Turbine Trip Subject:

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

This Licensee Event Report (LER) addresses the actuation of the Reactor Protection System for a Unit 2 reactor SCRAM on turbine trip that occurred on June 26, 2001. The turbine trip was caused by a generator lockout resulting from a failed lug connection in the Alterrex protective relaying system. The connection was repaired and the unit was returned to power on June 28, 2001.

Report Number:	2-01-002
Revision:	00
Event Date:	June 26, 2001
Discovered Date:	June 26, 2001
Report Date:	August 20, 2001
Facility:	Limerick Generating Station
,	P.O. Box 2300, Sanatoga, PA
	19464-2300

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

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

Very truly yours,

William Levis Vice President - LGS

Attachment

cc: H. J. Miller, Administrator Region I, USNRC A. L. Burritt, USNRC Senior Resident Inspector, LGS





www.exeloncorp.com

Entrotion constant g ortation on the 2     TITLE (4)     Failed lug on Main Generator Alterex Exciter protective relay system caused generator lockout and read     EVENT DATE (5)   LER NUMBER (6)   REPORT DATE (7)   OTHER FACILITIES INVOL     MO   DAY   YEAR   SEQUENTIAL NUMBER   REV NO   Mo   DAY   YEAR   DOCKET NUME 05000     06   26   01   01   002   00   08   20   01   DOCKET NUME 05000     0FERATING MODE (9)   1   20.2201(b)   20.2203(a)(3)(ii)   50.73(a)(2)(ii)(B)   50.73(a)(2)(ii)(B)   50.73(a)(2)(ii)(B)   50.73(a)(2)(ii)(B)   50.73(a)(2)(ii)(A)     POWER LEVEL (10)   100   20.2203(a)(1)   50.36(c)(1)(i)(A)   x   50.73(a)(2)(v)(A)   73.71(a)(A     2.20203(a)(2)(ii)   50.36(c)(2)   50.73(a)(2)(v)(A)   73.71(a)(A     2.20203(a)(2)(ii)   50.73(a)(2)(v)(B)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v)(D)   50.73(a)(2)(v	Ising process and led back risk Management Branch (T- 555-0001, or by internet e- ion and Regulatory Affairs, ashington, DC 20503. If a surrently valid OMB control required to respond to, the OF 3 OF 3 Actor scram 
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20.2203(a)(2)(iii)   50.46(a)(3)(ii)   50.73(a)(2)(v)(C)   Specify iff     20.2203(a)(2)(iv)   50.73(a)(2)(i)(A)   50.73(a)(2)(v)(D)   NRC Form     20.2203(a)(2)(v)   50.73(a)(2)(i)(B)   50.73(a)(2)(v)(D)   NRC Form     20.2203(a)(2)(v)   50.73(a)(2)(i)(B)   50.73(a)(2)(vii)   Second (C)(V)     20.2203(a)(2)(vi)   50.73(a)(2)(i)(C)   50.73(a)(2)(viii)(A)   Second (C)(V)     20.2203(a)(2)(vi)   50.73(a)(2)(i)(A)   50.73(a)(2)(viii)(A)   Second (C)(V)     20.2203(a)(3)(i)   50.73(a)(2)(i)(A)   50.73(a)(2)(viii)(B)   Second (C)(V)     LICENSEE CONTACT FOR THIS LER (12)     TELEPHONE NUMBER (Include Area Code)	
20.2203(a)(2)(iv)   50.73(a)(2)(i)(A)   50.73(a)(2)(v)(D)     20.2203(a)(2)(v)   50.73(a)(2)(i)(B)   50.73(a)(2)(vii)     20.2203(a)(2)(vi)   50.73(a)(2)(i)(C)   50.73(a)(2)(viii)(A)     20.2203(a)(3)(i)   50.73(a)(2)(i)(A)   50.73(a)(2)(viii)(A)     20.2203(a)(3)(i)   50.73(a)(2)(i)(A)   50.73(a)(2)(viii)(B)     LICENSEE CONTACT FOR THIS LER (12)     TELEPHONE NUMBER (Include Area Code)	n Abstract below or in m 366A
20.2203(a)(2)(v)   50.73(a)(2)(i)(B)   50.73(a)(2)(vii)     20.2203(a)(2)(vi)   50.73(a)(2)(i)(C)   50.73(a)(2)(viii)(A)     20.2203(a)(3)(i)   50.73(a)(2)(i)(A)   50.73(a)(2)(viii)(B)     LICENSEE CONTACT FOR THIS LER (12)     TELEPHONE NUMBER (Include Area Code)	
20.2203(a)(2)(vi)   50.73(a)(2)(i)(C)   50.73(a)(2)(viii)(A)     20.2203(a)(3)(i)   50.73(a)(2)(ii)(A)   50.73(a)(2)(viii)(B)     LICENSEE CONTACT FOR THIS LER (12)     TELEPHONE NUMBER (Include Area Code)	
20.2203(a)(3)(i)   50.73(a)(2)(ii)(A)   50.73(a)(2)(viii)(B)     LICENSEE CONTACT FOR THIS LER (12)     VAME   TELEPHONE NUMBER (Include Area Code)	
LICENSEE CONTACT FOR THIS LER (12)     NAME   TELEPHONE NUMBER (Include Area Code)	
Marino Kaminski Manager-Experience Assessment (610) 718-3400	0
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)	
CAUSE SYSTEM COMPONENT FACTURER TO EPIX CAUSE SYSTEM COMPONENT FACTURE	NU- TURER TO EPIX
X TL CON N	
	DAY YEAR
SUBMISSION SUBMISSION	
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)	
On June 26, 2001 at 13:39 hours Unit 2 experienced a reactor scram on turbine trip and generator lockout. This event was caused by a failed wire lug in the Alterrex phase diffe current protective relay system. The connection lug failed due to cyclic fatigue. The con was repaired, and the unit was returned to power on June 28, 2001.	d

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NRC FORM 366AU.S. NUCLEAR REGULATORY COM (1-2001) LICENSEE EVENT REPORT (LEI										
FACILITY NAME (1)	DOCKET (2)	ET (2) LER NUMBER (6)				PAGE (3)				
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER						
Limerick Generating Station Unit 2	05000-353	01	002	00	2	OF	3			
NARRATIVE (If more space is required, use additional c	copies of NRC Form 366A)									
Unit Conditions Prior to the Even										
Unit 2 was in Operational Condit no structures, systems or compo					Ther	e were				
Description of the Event										
On June 26, 2001 at 13:39 hours (EIIS:JC) occurred on Unit 2 due (EIIS:JF) that caused a generato System (ECCS) actuations occu	e to a faulty connect or lockout and result	ion in the	Alterrex prote	ective rela	aying	system	I			
All control rods fully inserted as a Pump trip breakers tripped as ex Unit Auxiliary 13.2 kV buses auto	cpected due to the t	urbine trip	o at greater th	an 30% p	power					
Reactor pressure peaked at 115 valves lifted (lowest setpoint is 1 scram, the main control room op condition of reactor level less tha	170 psig). Reactor perators entered trip	level dec procedu	creased to –3 re T-101 Read	inches. F	follow	ing the an entr	ſy			
The connection was repaired, ar	nd Unit 2 was returr	ned to pov	ver on June 2	8, 2001.						
This event involved an actuation ENS 4 hour notification was sub 10CFR50.72(b)(2)(iv)(B) and 100	mitted on 6/26/01 a	it 16:59 h			An N	IRC				
This event involved an automatic pursuant to the requirements of			re, this LER is	s being su	ubmitt	ed				
Analysis of the Event										
There were no actual safety con designed to a loss of electrical lo release of radioactive material o also minimal since the plant is d	oad and the subseq occurred. The poten	uent unco tial safety	omplicated read read read read read read read re	actor scra	am. N	10				
Cause of the Event										
This event was caused by a faile relay system. The lug failed due lifting and landing of the lug duri running vibration was sufficient t failure of the lug.	to cyclic fatigue. In ng preventive main	cipient cra tenance c	acks had beer over several o	n initiated utages.	l from Norma	routine al				

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FACILITY NAME (1)	DOCKET (2)	L	ER NUMBER (6)		PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		· ·	-
merick Generating Station Unit 2	05000-353	01	002	00	3	OF	3
ARRATIVE (If more space is required, use additional	copies of NRC Form 366A)	(17)					
Corrective Action Completed							
The failed lug was repaired. The affected terminal block and asso				inal block	abov	e the	
Following repairs, all adjacent lunching non-destructive examination (NI						lified	
Thermography inspections of the 100% power with no additional i corresponding connections on L	ndications noted. T	hermogra	phy was also				
A recurring predictive maintenar Alterrex terminal panels.	nce task has been c	reated to	perform thern	nography	on th	e	
Corrective Actions Planned							
The replacement of the existing being reviewed. It is intended th connection lugs during future m be installed during the next avai	hat the new design v aintenance activities	will elimina s. If an im	ate the need t	o bend th	ne wiri	ng and	
Craft electrical fundamental and from this incident prior to the ne				ude less	ons lea	arned	
Previous Similar Occurrences							
None							

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