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April 7, 2016

U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

ATTENTION: Document Control Desk

SUBJECT: R.E. Ginna Nuclear Power Plant Renewed Facility Operating License No. DPR-18 Docket No. 50-244

> LER 2016-001, Loss of Station Auxiliary Transformer 12A Resulting in Automatic Start of Emergency Diesel Generator A due to Undervoltage Signals to Safeguards Buses 14 & 18

The attached Licensee Event Report (LER) 2016-001 is submitted under the provisions of NUREG-1022, Event Reporting Guidelines. There are no new commitments contained in this submittal. This submittal is for revision 0 of the LER.

Should you have any questions regarding this submittal, please contact Thomas Harding at 315-791-5219.

Sincerely,

WC/kh

Attachment: LER 2016-001

cc: NRC Regional Administrator, Region I NRC Project Manager, Ginna NRC Resident Inspector, Ginna

TEZZ NIRR

WPLNRC-1003068

Document Control Desk April 7, 2016 Page 2

bcc: J.E. Pacher W.B. Carsky T.L. Harding D.P. Ferraro D. Blankenship R. Everett J.T. Zapetis L. Lynch D. Gudger

Attachment

LER 2016-001

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION						N APPR	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2018								
(11-2015)	(11-2015) LICENSEE EVENT REPORT (LER) (See Page 2 for required number of digits/characters for each block)								Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Otficer, 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 des not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.						
1. FACI	1. FACILITY NAME								KET NUMBER		3. P/	AGE			
R. E. Ginna Nuclear Power Plant							050	05000244 1 OF 4							
4. TITLI															
			kiliary Transfor to safeguards			autom	atic sta	rt o	of Emergency	/ Diesel (Gen	erator A	due '	to	
5. E		DATE	6. LER N	UMBER	7.1	REPORT	DATE								
MONTH	DAY	YEAR		IENTIAL REV MBER NO.			YEAR	YEAR FACILITY NAME		-	0			DOCKET NUMBER	
02	11	2016	2016 2016 - 001 - 0			00 04 07 20						DOCKET NUMBER 05000			
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)															
			20.2201(b)	20.2	3)(i)	_	50.73(a)	50.73(a))(2)(\	/iii)(A)			
	1		20.2201(d)	20.2203(a)(3)(ii			_	50.73(a)(2)(ii)(B)			50.73(a)(2)(viii)(B)			/iii)(B)	
			20.2203(a)	20.2203(a)(4)				50.73(a)(2)(iii)			50.73(a)(2)(ix)(A)			x)(A)	
			20.2203(a	50.36(c)(1)(i)(A))(A)		50.73(a)(2)(iv)(A)		50.73(a)(2)(x)					
10. PO	WER LE	EVEL	20.2203(a)	50.36(c)(1)(ii)(A)		i)(A)	50.73(a)(2)(v)(A)		73.71(a)(4)						
			20.2203(a)	50.36(c)(2)				50.73(a)(2)(v)(B)		73.71(a)(5)					
			20.2203(a)	50.46(a)(3)(ii)		i)	50.73(a)(2)(v)(C)		73.77(a)(1)						
	100		20.2203(a)	50.73(a)(2)(i)(A))(A)	50.73(a)(2)(v)(D)			73.77(a)(2)(i)					
			20.2203(a)	50.73(a)(2)(i)(B))(B)		50.73(a))(2)(vii)	73.77(a)(2)(ii)		i)			
					50.73(a)(2)(i)(0			OTHER Specify in Abstract below or in NRC Form					Form 3	366A	
UCENSEE	CONTAC	ř		12.	LICENSE	E CONTA	ACT FOR	тн	IS LER	-	LEPHO		(Inclu	de Are	a Code)
	LICENSEE CONTACT TELEPHONE NUMBER (Include Area Code) Thomas Harding, Regulatory Assurance Manager 315-791-5219														
_			13. COMPLETE	ONE LINE FO			ENT FAI	LUF		IN THIS	REPO	ORT			
CAUS	E	SYSTEM	COMPONENT	MANU- FACTURER	REPORTA TO EPI		CAUSE		SYSTEM	COMPON	ENT	MANU- FACTURE			ORTABLE
х		EA	XFMR	W120	YES	6									
14. SUP									DA	Y	YEAR				
YES (If yes, complete 15. EXPECTED SUBMISSION DATE) NO SUBMISSION DATE DATE															
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)															
On 02/11/2016 at 2305, Ginna Station experienced a loss of Station Auxiliary Transformer 12A, causing Emergency Diesel Generator A to automatically start due to undervoltage signals to safeguards buses 14															
and 18. Station Auxiliary Transformer 12A failed due to a high side phase to phase internal fault with relays															
for overcurrent and differential current actuated. All plant systems responded as designed. Control room operators stabilized the plant per abnormal operating procedures. The plant was placed in 100/0 electrical															
lineup on the off-site circuit 767 with Emergency Diesel Generator A secured. Station Auxiliary Transformer															
12A was replaced with a spare and the plant was restored to normal off-site power line-up on 02/20/2016 at 0018.															
								_	_						_
			ortable under		73(a)(2))(iv)(A)	as a v	alio	d system ac	tuation	that	t was no	ot pa	rt o	fa
pre-planned sequence during testing.															

				Pag	e 2 of 4					
NRC FORM 366A (11-2015) U.S. NUCLEAR REGULAT LICENSEE EVENT REP CONTINUATION S	PORT (LER)	N APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2018 Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53). U.S. Nuclear Regulatory Commission, Washington, DC 2055-0001, or by internet e-mail to infocollects.Resource@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 does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.								
1. FACILITY NAME	KET NUMBER	3. LER NUMBER								
R. E. Ginna Nuclear Power Plant	05000-244		year 2016	sequential NUMBER	REV NO. - 00					
NARRATIVE DESCRIPTION OF EVENT										
A. PLANT OPERATING CONDITIONS BEFORE THE EVENT:										
The reactor was in Operational Mode 1 and temperature 574 degrees F. The of two off-site circuits providing power to the transformers. There were no structures contributed to the event.	ffsite electrical s ne four 480 volt	system was in the nor safeguards buses via	mal line the two	up, with each o station auxilia	of the ry					
B. DESCRIPTION OF EVENT:										
On February 11, 2016 at 2305 hours, G 52/7T tripped due to Station Auxiliary Tr and assumed the loads for safeguards b remained at 100 percent power through	ransformer 12A buses 14 & 18.	failure. Emergency D)iesel G	enerator A stai	rted					
C. DATES AND APPROXIMATE TIMES	S OF MAJOR O	CCURRENCES:								
 February 11, 2016: 2305 hours – Operations receive Generator A started and loaded was determined to be the failed tripped. Technical Specification 	safeguards bus component with	ses 14 & 18. Station A indication from overc	Auxiliary	Transformer 1	2A					
2306 hours - Operators entered Emergency Operating Procedure AP-ELEC.1 for loss of 12A Bus.										
 2325 hours - Operators started Equipment Restoration Procedure ER-ELEC.1 for restoration of off-site power, in order to supply all loads from off-site circuit 767. 										
 February 12, 2016: 0032 hours - Station Auxiliary Tr was placed in 100/0 lineup. In th the 480 volt safeguards buses vi 	nis lineup, off-si	te power circuit 767 p								
	 0052 hours – Technical Specification LCO 3.8.1 was exited with power to safeguards buses 14 and 18 restored from off-site power circuit 767. 									
0053 hours - Emergency Diesel	Generator A wa	as secured.								
 0127 hours - Abnormal Operating Procedure AP-ELEC.1 was exited after transferring all loads to off-site circuit 767 via ER-ELEC.1. 										

				Pa	ge 3 of 4				
NRC FORM 366A U.S. NUCLEAR REGULAT	ORY COMMISSION	APPROVED BY OMB: NO. 315	0-0104	EXPIRE	ES: 10/31/2018				
(11-2015) LICENSEE EVENT REPORT (LER) CONTINUATION SHEET Estimated burden per response to comply with this mandatory collection request: 80 lessons learned are incorporated into the licensing process and fed back to comments regarding burden estimate to the FOIA, Privacy and Information Collect F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and PueDe- Used to impose an information collection does not display a currently valid OMB oc NRC may not conduct or sponsor, and a person is not required to respond to collection.									
1. FACILITY NAME	2. DO	CKET NUMBER	3. LER NUMBER						
	05000 044		YEAR	SEQUENTIAL NUMBER	REV NO.				
R. E. Ginna Nuclear Power Plant	05000-244		2016	- 001	- 00				
NARRATIVE	·			.	<u> </u>				
 0351 hours - Notification of Emergency Diesel Generator A start, event # 51730 was made per 10CFR50.72(b)(3)(iv)(A) 									
 February 12-19, 2016: Activities performed by the station to replace Station Auxiliary Transformer 12A with a spare transformer. 									
 February 19, 2016: 1813 hours – Replacement transformer energized. 									
 February 20, 2016: 0018 hours: Operations established the Normal off-site power lineup (two off-site power feeds), as was the pre-event condition, by completing procedure O-6.9.2. 									
D. CAUSE OF EVENT									
A causal analysis was performed by the station. Electrical testing revealed the cause of the transformer failure appears to be a high side "C" phase to phase internal fault. There was no external damage to the transformer or surrounding area as a result of the fault.									
The failed transformer was model West years. There was no indication or warni	0		nd had	been in service	e for 46				
The cause of this event per NUREG-1022 Cause Code X, as the failure is attributed to an internal high side fault due to service related insulation degradation.									

This event was entered into the site corrective action program (AR 02625128).

An immediate action was performed verifying normal parameters in the remaining transformers. This was completed by reviewing Dissolved Gas Analyzer results for the other transformers. No issues were identified.

E. CORRECTIVE ACTIONS

An on-site spare transformer manufactured by Siemens was placed into service and the unit was restored to normal off-site power lineup.

				Pac	ae 4 of 4			
U.S. NUCLEAR REGULAT	PORT (LER)							
1. FACILITY NAME	2. DOC	KET NUMBER		3. LER NUMBER				
R. E. Ginna Nuclear Power Plant	05000-244		YEAR 2016	SEQUENTIAL NUMBER	REV NO.			
health and safety of the public. The Em with Station Auxiliary Transformer 12B p G. PREVIOUS SIMILAR OCCURRENC A review of Ginna LERs submitted durin occurrence identified (loss of an offsite LER 2012-001, Automatic Start of "B" E Due To Wildlife"	performed as ex ES ng the last five y circuit resulting	vpected. vears was completed v in an Emergency Dies	with the sel Gen	following simil erator start):	ar			