Cheryl A. Gayheart Vice President - Farley Southern Nuclear Operating Company, Inc. Farley Nuclear Plant Post Office Drawer 470 Ashford, AL 36312

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June 9, 2016

Docket Nos.: 50-348

NL-16-0738

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

Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2016-001-00 Condition Prohibited by Technical Specifications Due to 600V Load Center Inoperable Longer than Allowed by Technical Specifications

Ladies and Gentlemen:

This Licensee Event Report is being submitted pursuant to the requirements of the Code of Federal Regulations, 10 CFR 50.73(a)(2)(i)(B) for Unit 1.

This letter contains no NRC commitments. If you have any questions regarding the submittal, please contact Ms. Julie Collier at (334) 814-4639.

Sincerely,

Ms. C. A. (Galyheart Vice President – Farley

CAG/JAC

Enclosure: Unit 1 Licensee Event Report 2016-001-00

U. S. Nuclear Regulatory Commission NL-16-0738 Page 2

 cc: <u>Southern Nuclear Operating Company</u> Mr. S. E. Kuczynski, Chairman, President & CEO Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer Mr. M. D. Meier, Vice President – Regulatory Affairs Mr. D. R. Madison, Vice President – Fleet Operations Mr. B. J. Adams, Vice President – Engineering Mr. C. R. Pierce, Regulatory Affairs Director Ms. B. L. Taylor, Regulatory Affairs Manager – Farley Mr. J. E. Purcell, Operating Experience Coordinator - Farley RTYPE: CFA04.054

<u>U. S. Nuclear Regulatory Commission</u> Ms. C. Haney, Regional Administrator Mr. S. A. Williams, NRR Project Manager - Farley

Mr. P. K. Niebaum, Senior Resident Inspector - Farley

Enclosure

Joseph M. Farley Nuclear Plant - Unit 1

## Unit 1 Licensee Event Report 2016-001-00

## Condition Prohibited by Technical Specifications Due to 600V Load Center Inoperable Longer than Allowed by Technical Specifications

NRC FOR (11-2015)	M 366	) L		EE EVENT R			Estimated bur Reported less Send commer Branch (T-5 F internet e-mail and Regulato Washington, C currently valid	den per respon ons learned are its regarding bu 53), U.S. Nucle ito Infocollects. My Affairs, NE( DC 20503. If a m OMB control nu	IO. 3150-0104 se to comply with incorporated into the riden estimate to the ar Regulatory Com Resource Ørnc.gov, OB-10202, (3150-0 eans used to impose mber, the NRC may immation collection.	this mandalory col- e licensing process e FOIA, Privacy a mission, Washingti and to the Desk O 104), Office of N e an information ci	lection rei and led ind Inform in, DC 20 ficer, Offi- lanageme allection de	back to industri ation Collection 0555-0001, or I ce of Information and Budge oes not display	
I. FACILIT	Y NAME		- C	-		100		TNUMBER		B. PAGE			
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JOSE	eph M.	Farley I	Nuclear F	Plant, Unit 1			0500	0-	348	1 OF		3	
		Prohibite		chnical Specificat	ions Due to	600V	Load Ce	nter Inope	arable Long	er than Allo	wedl	by	
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9. OPERA	TING M	DDE	11. THIS F	EPORT IS SUBMIT	TED PURSUA	NT TO T	HE REQU	REMENTS	OF 10 CFR §	(Check all th	at appl	(y)	
			20.2	2201(b)	20.22	20.2203(a)(3)(l)		50.73(a)(2)(li)(A)			0.73(a)	(2)(viii)(A)	
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			20.2	2203(a)(1)		20.2203(a)(4)			'3(a)(2)(iii)	5	50.73(a)(2)(ix)(A)		
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10. POWE	RLEVE	L	20.2	2203(a)(2)(ii)	50.36	50.36(c)(1)(li)(A)		50.73(a)(2)(v)(A)		07	73.71(a)(4)		
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	100%		20.2	203(a)(2)(iv)	50.46	50.46(a)(3)(ii)		50.73(a)(2)(v)(C)		07	73.77(a)(1)		
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			20.2	203(a)(2)(vi)		⊠ 50.73(a)(2)(i)(B)		50.73(a)(2)(vii)			73.77(a)(2)(ii)		
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ICENSEE CON	TACT	Julie	Collier	12. LI	CENSEE COI	VTACT F	OR THIS L	.ER	TELEPHONE N	UMBER (Include ) 334-814-4		e)	
		-	and the second se	ETE ONE LINE FOR	EACH COMP	ONENT	FAILURE	DESCRIBE	D IN THIS REI		000		
CAUSE	8	YSTEM	COMPON	L MAANUT	REPORTABLE TO EPIX		CAUSE	SYSTEM	COMPONENT	LAND			
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	supply both U2 breake control was en cause t have pl 04/12/2 inopera 50.73(a necess Correct supply breake	breaker 2 supply r. On 4/ power f tered fo o dirty c evented 016 at ( ble for 1 (2)(1)(E ary port ive Acti- breaker r cell sw	for 1-2R breaker 13/2016 a uses wer r Unit 1 a contacts o d the U1 0312 and Unit 1 for 3). This is ion of the con: The L closed. I itch, adm	CDT, with Unit 1 ( 600V Load Cent and U1 supply b at 0456 CDT the re restored and w at 0456 on 4/13/2 on the cell switch supply breaker fr I 4/13/2016 at 09 more than the til a not reportable for electrical power J2 supply breake Post maintenance inistrative contro rlock feature is ver	ter (LC) was reaker to su rould not re 016 and ex located in om reclosin 38, leaving me allowed or Unit 2 du distribution er cell switch e testing ve ols are in pla	s racke upport i breake close. T ited at the U2 by TS e to the subsy n was c rified o	d out and replacing for the 1 rechnica 0938 on supply be oss of offi- cR LC de 3.8.9 and a unit bein stems op ycled wh perability	d the cont an agast I-2 R 600 I Specific 4/13/2016 reaker cu site powe -energize d is report ng in Moc berable. ich clean v. Until re	rol power fu at relay on V LC, trippe ations (TS) 5. Investigat bicle. This c r had occur d. This caus table per 10 le 5 and hav ed the conta placement o	uses remove the U2 sup ad open wh 3.8.9 Condition we condition we red betweet sed the LC CFR ving the acts and the of the U2 s	ed for ply en the ition / ed the ould n to be e U1	e A e	

	DRM 366A U.S. NUCLEAR REGULATORY COMMISSION			EXPIRES: I					
(11-2015)	LICENSEE EVENT REPORT (LER) CONTINUATION SHEET	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 FOAA, 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 @nc.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. FAC		2. DOCKET NUMBER		. LER NUMBE	R				
	brench M. Carley Algebrar Diant 1 Init 1	26000 249	YEAR	SEQUENTIAL	REV NO.				
	Joseph M. Farley Nuclear Plant, Unit 1	05000- 348	2016	- 001 -	00				
NARRA					-				
A.	PLANT AND SYSTEM IDENTIFICATION								
	Westinghouse - Pressurized Water Reactor Energy Industry Identification Codes are identified in the to	ext as [XX].							
В.	DESCRIPTION OF EVENT								
	On 4/12/2016 at 0312 CDT, with Unit 1 (U1) at 100 percent power and Unit 2 (U2) in Mode 5, the U2 supply breaker (ER05-2) for 1-2R 600V Load Center (LC), which can supply power for both U1 and U2, was racked out and the control power fuses removed for both U2 supply breaker and U1 supply breaker (ER02-1) to support replacing an agastat relay on ER05-2. The removal of the fuses for ER02-1 caused all of the protective relays for that breaker to be in a de-energized state. On 4/13/2016 at 0456 CDT, ER02-1 tripped open when the control power fuses were reinstalled. An attempt to reclose the breaker was unsuccessful.								
	Breakers ER02-1 and ER05-2 contain permissive interlocks that prevent these breakers from being closed at the same time. A contact on the ER05-2 cell switch was dirty/degraded preventing continuity between the two sides of the contact. The cell switch failed to send a signal to indicate that ER05-2 was in the racked-out position, which prevented breaker ER02-1 from reclosing.								
	Technical Specifications (TS) 3.8.9 Condition A was enter breaker tripped open and exited at 0938 on 4/13/2016 after the control power fuses replaced and the 1-2R LC was res	er the contacts were cleaned o							
	At the time of this event Unit 2 was in Mode 5 in a refuelin Unit 2 had the necessary portion of the electrical power dis equipment required to be operable.								
C.	UNIT STATUS AT TIME OF EVENT	140							
	Unit 1, Mode 1, 100 percent power Unit 2, Mode 5, 0 percent power								
D.	CAUSE OF EVENT								
	The cause of the supply breaker being unable to reclose we in the cell switch of ER05-2 relay, preventing the interlock		əgraded	l contact					
E.	REPORTABILITY ANALYSIS AND SAFETY ASSESSME	NT							
	If a loss of offsite power had occurred between 4/12/2016 have opened but would not have reclosed due to the conta 2R LC de-energized. Therefore an LER is required based Unit 1 for longer than the TS 3.8.9 required action complet condition for approximately 30 hours. This is reportable in	tact on the cell switch on ER05 I on the 1-2R Load Center bein stion time. The breaker was in a	5-2, leavi ng inopei an inope	ing the 1- erable for erable					

NRC FORM 366A U.S. NUCLEAR REGULATORY COMMISSION (11-2015)	APPROVED BY OMB: NO. 3150-0104	EXPIRES: 10/31			
LICENSEE EVENT REPORT (LER) CONTINUATION SHEET	Estimated burden per response to comply with Reported lessons learned are incorporated into the Send comments regarding burden estimate to the Branch (T-5 F53), U.S. Nuclear Regutatory Com Internet e-mail to Infocollects.Resource @nrc.gov, and Regutatory Affairs, NEOR-10202, (3150-0 Washington, DC 20503, if a means used to impos currently valid OMB control number, the NRC may required to respond to, the Information collection.	Ihis mandatory collection request: 80 e Icensing process and fed back to in e FOIA, Privacy and Information Coli mission, Washington, DC 20555-0001 and to the Dask Officer, Office of Infor 104), Office of Management and E e an information collector does not di not conduct or sponsor, and a persor	hours dustry ections , or by mation Budget splay a n is not		
1. FACILITY NAME	2. DOCKET NUMBER 3. LER NUMBER				
			REV NO.		
Joseph M. Farley Nuclear Plant, Unit 1	05000- 348	2016 - 001 -	00		
NARRATIVE					
The Farley onsite standby power source is provided from (1-2A, 1B, 2B, and 1C). The 1C EDG has a continuous se EDGs have ratings of 4,075 kW. EDGs 1-2A and 1C are the Farley also has a fifth diesel generator (2C), rated at 2,850 and can be manually aligned to supply B-train power to eis (LOSP) loads. During the time the 1-2R Load Center was inoperable for train) were operable and available to support any event or functional and available. For Unit 2 the 2B EDG was operation	Prvice rating of 2,850 kW and the A-train and EDGs 1B and 20 kW, that serves as a station ther unit and supply power to lunit 1, the EDGs 1-2A (A-train on Unit 1, and the 2C station blacks	he 1-2A, 1B, 2B 2B are the B-train. blackout diesel loss-of-site-power a) and the 1B (B-			
No other systems or components were affected by the cor of the inoperable LC no events occurred which challenged loss of safety function. Therefore, the safety and health of	the offsite power supplies, ar	nd there was no			
F. CORRECTIVE ACTION					
The cell switch was cycled which cleaned the contacts, all which falled is electrically bypassed when ER05-2 is racked the racked-in position verified Operability of ER02-1. Adm 1 inoperable when ER05-2 is racked out until the interlock The ER05-2 cell switch is scheduled for replacement in the maintenance task is being developed for more frequent re breakers.	ed-in. Post maintenance testir inistrative controls are in place is verified or ER05-2 cell swit e next Unit 2 Refueling Outage	ng with ER05-2 in to declare ER02- ch is replaced. e. A preventive			
G. ADDITIONAL INFORMATION					
Failed Components: Low-Voltage Power System [EC], Westinghouse	2				
Other system affected: None					
Commitment Information: None					
Previous Similar Events: None					