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Date: 9/28/17

Docket Nos.: 50-348

NL-17-1597

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

## Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2017-001-00 Entry into Mode of Applicability with Component Cooling Water (CCW) Isolation Valve Inoperable due to Configuration Error

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR 50.73(a)(2)(i)(B), Southern Nuclear Operating Company is submitting the enclosed Licensee Event Report for Unit 1.

This letter contains no NRC commitments. If you have any questions, please contact Gene Surber, Licensing Supervisor, at 334-814-5448.

Respectfully submitted,

lann

D. R. Madison Vice President – Farley

DRM/RGS/cbg

Enclosure: Unit 1 Licensee Event Report 2017-001-00

cc: Regional Administrator, Region II NRR Project Manager – Farley Senior Resident Inspector – Farley RTYPE: CFA04.054 Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2017-001-00 Entry into Mode of Applicability with Component Cooling Water (CCW) Isolation Valve Inoperable due to Configuration Error

Enclosure

Unit 1 Licensee Event Report 2017-001-00

NRC FORM 365 U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB: NO. 3158-0104 EXPIRES: 03/31/25 (04-2017) Estimated buden per response to comply with this mandatory collection request: 80 hz										: 03/31/2020 just 80 hours.							
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1. FACE	TTY NA	TE					2.000	2. DOCKET NUMBER 3. PAGE									
Joseph M. Farley Nuclear Plant, Unit 1							05000	) 348 1 <b>OF</b> 3					3				
4. TITLE Entry into Mode of Applicability with Component Cooling Water Isolation Valve Inoperable due to configuration error.																	
5.1	EVENT D	ATE	6. LER NUMBER 7. REPOR				EPORT	DATE 8. OTHER FACIL				TES INVO	LVED				
MONTH	DAY	YEAR	YEAR SEQUENTIAL REV NUMBER NO.		MONTH	MONTH DAY		FACILITY NAME	FACILITY NAME			050	DOCKET MUMBER				
10	01	2016	2017 -	001	- 00	09	29	2017	FACILITY NAME	KE DOCKET 05000							
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check all that apply)																	
			20.2201(b)			20.2	203(a)(3	)(1)	<b>50.73(a)</b>	50.73(a)(2)(l)(A)			50.73(a)(2)(viii)(A)				
	3		20.2201(d)			20.7	203(a)(3	)(ii)	50.73(a)(2)(ii)(B)			50.73(a)(2)(vtii)(B)					
	~		20.2203(a)(1)			20.2	203(a)(4)	)	50.73(a)	50.73(a)(2)(iii)			50.73(a)(2)(b)(A)				
			20.2203(a)(2)(l)			50.3	50.36(c)(1)(i)(A)		50.73(a)(2)(iv)(A)			50.73(a)(2)(x)					
10. POV	NER LEV	EL	20.2203(a)(2)(ii)			50.3	18(c)(1)(II)	)(A)	50.73(a)(2)(V)(A)			73.71(a)(4)					
			20.2203(a)(2)(iii)			50.3	i6(c)(2)		50.73(a)(2)(V)(B)			73.7	'1(a)(5)				
			20.2203(a)(2)(iv)			50.4	50.46(a)(3)(1)		50.73(a)(2)(V)(C)			73.77(a)(1)					
	000		20.2203(a)(2)(v)			50.73(a)(2)(i)(A		(A)	50.73(a)	(2)(v)(D)		73.77(a)(2)(l)					
			20.2203(a)(2)(vi)			₹ 50.7	'3(a)(2)(l)	(B)	50.73(a)	(2)(vil)		73.7	7(a)(2)	(11)			
						50.7	'3(a)(2)(l)	(C)	OTHER Specify in Abr			stract below or in NRC Form 368A					
					12. L	LICENSEE (	CONTAC	T FOR TH	iis ler								
LICENSEE Gene Su	CONTACT urber, Lice	ensing Sup	ervisor								TELEPI	HONE NUME (334)	IER (Inclu 814-54	de Area Code) 48			
		1	13. COMPLI	ETE ONE I	INE FOR	REACH CO	MPONE	NT FAILU	RE DESCRIBED	IN THIS RE	POR	T					
CAUS	E	SYSTEM	COMPONE	INT FAC	ANU- TURER	REPORTABI TO EPIX		CAUSE	SYSTEM	COMPONE	NT	MANU- FACTURE	R	EPORTABLE TO EPIX			
A		CC	ISV		J/A	Y		NA	N/A	N/A	$\downarrow$	N/A		N/A			
14. SUPI	14. SUPPLEMENTAL REPORT EXPECTED 16. EXPECTED MONTH DAY   YES (If yes, complete 15. EXPECTED SUBMISSION DATE) Image: Complete 15. EXPECTED SUBMISSION DATE Image: Complete 15. EXPECTED SUBMISSION DAT									DAY	YEAR						
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) On July 31, 2017 with Unit 1 at 100% Rated Thermal Power it was identified that Q1P17HV2229-Norm/Block Switch (Norm/Block Switch) was out of position (aligned to the "SI BLOCK" position). This is a key operated switch which controls the operation of valve Q1P17HV2229 (HV-2229), Component Cooling Water (CCW) Supply to Sample Coolers. HV-2229 functions to automatically isolate the non-seismic portion of the CCW system which includes the Reactor Coolant System (RCS) Sample Coolers. The Norm/Block switch allows a Safety Injection (SI) signal to be blocked to allow alignment of CCW to the RCS Sample Coolers for post-accident sampling. The Norm/Block Switch was returned to normal position on August 1, 2017 at 0415. HV-2229 also receives a closed signal on low level CCW Surge Tank which will override the Norm/Block switch regardless of position. Thus, in the event of an SI concurrent with a CCW leak, the safety function of CCW would have still been met. Since																	
HV-222 MODE	HV-2229 was blocked from closing and would not have met Surveillance Requirement (SR) 3.7.7.2 from October 29, 2016 (entry to																

reportable under 50.73(a)(2)(i)(B).

Corrective actions include procedure changes, communications and training to close knowledege gaps associated with system operation.

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NRC FORM 368A U.S. NUCLEAR REGULA	TORY COM	<b>EISSION</b>	APPROVED BY ONE: NO.	. 3150-010	4	EXPIRE	S: 03	/31/2020		
LICENSEE EVENT REP CONTINUATION S	<b>:R)</b>	Estimated burden per response to comply with this mendatory collection request: 80 hours. Reported tessons isomed are incorporated into the libensing process and fed back to industry. Send comments regarding tenden estimate to the information Services Branch (T-2 F43), U.S. Nucleae Regulatory Commission, Washington, DC 20555-0001, or by e-mail to inforomitest Resourcembre prov. and to the Dask Officer, Office of Information and Regulatory Afales. NEOB-10202, (3150-0104), Office of Management and Burder. Washington, DC 20550. If a mean								
(See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.mcc.gov/treading-rm/doc-collections/nuregs/staff/sr1022/r3/) NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.										
1. FACILITY NAME		2. DOCH	CET NUMBER		3. L	ER NUMBE	R			
Joseph M. Farley Nuclear Plant, Unit 1	05000-		348	<u>YEAR</u> 2017	- [	UNBER 001	<b>]</b> _ [	NO. 00		
NARRATIVE	L						<u> 1                                   </u>			
EVENT DESCRIPTION: DVA 31, 2017 with Unit 1 at 100% Rated Thermal Power an operator was preparing to lift a clearance order on the Component Cooling Water (CCW) System. The operator noticed that the 01P17HV2229-Norm/Block switch (Norm/Block Switch) was not in the correct position. The Norm/Block Switch was not part of the clearance order. The Norm/Block switch allows a Safety Injection (S) signal to be blocked to allow alignment of CCW to the Reactor Coolant System (RCS) Sample Coolers for post-accident sampling. The operator notified shift supervision. An Investigation was conducted to identify when the Norm/Block Switch was last manipulated. Based on interviews, records, and plant conditions it was determined that the most probable date the Norm/Block Switch was operated occurred on Acciber 1, 2016 during chemistry sampling following a reactor trip. Farley Unit 1 began a refueling outage following this reactor trip. EVENT CAUSE ANALYSIS: An analysis of the event identified organizational shortfalls in both procedure quality and human performance. The Chemistry operating proceedure for obtaining the RCS sample did not provide a method of maintaining configuration control for the Norm/Block Switch. Procedural guidance on the Norm/Block Switch operation was only located in the precautions and limitations portion of the procedure and not in the instruction portion of the Norm/Block switch was not regularized for sampling since the SI signal had been reset. The Chemistry Technician operated the Norm/Block Switch based on incovedge of the switch function obtained from reading the precautions and limitations. The Chemistry Technician left the switch in the "SI-Block" position when returning the key to the control room. Upon return of the key to the control room no challenge was provided on the configuration of HV-2229 or the Norm/Block Switch. REPORTABILITY AND SAFETY ASSESMENT: The auto dosure of HV-2228 during an SI is surveillance Requirement (SR) 3.7.7.2. This SR nequines that "each CCW auto										
NRC FORM 368A (04-2017)				I	Page	2	of _	3		

NRC FORM 356A U.S. NUC	APPROVED BY OND: NO. 3150-0104 EXPIRES: 03/31/2020								
(See NUREG-1022, R.3 for instruction a	/ENT REPO UATION SH nd guidance for ci ollections/huregs/	Estimated burden per response to couply with this mandatory collection request 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding turden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects Resource@mc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-102102, (3150-0780), Office of Management and Budget, Washington, DC 20503. If a means used to Impose an Information collection does not display a currently wild OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the Information collector.							
1. FACILITY NAME			2. DOCK	ET NUMBER			J. LER NUMBER		
Joseph M. Farley Nuclear Plant, I	Jnit 1	05000-		348	<b>YEAR</b> 2017		SEQUENTIAL NUMBER		REV NO.
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NARRATIVE								_	
NARRATIVE CORRECTIVE ACTIONS: The cause of the event is that the Barriers that broke down include; 1. Procedural guidance was not 2. Personnel knowledge level of 3. Communications / Questionin 4. The preparation and procedur Farley has initiated corrective act event. This event was immediate is being conducted in Chemistry procedure for operation of the sy PREVIOUS SIMILAR EVENTS: None OTHER SYSTEMS AFFECTED: No systems other than those met	e manipulation adequate for to the plant impa g attitude to ot re use and adh tions to addres ly communical and Operation stem has been	of the No the task to act for per btain auth herence of ss the orga ted to the is on the k n revised f	orm/Bloc o mainta forming iorization f the tas anization Depart knowled to addre	k Switch was not track in configuration. the task did not meet n were inadequate for k was inadequate. nal shortfalls and know nent, Site and Fleet po ge gaps and procedur iss configuration contro ted by this event.	ked using standard: the perfo vledge ga arsonnel. al guidan ol of the h	ap s. ma ce. Nor	proved proces ince of the tas associated wit The Site spec m/Block switc	sse sk. ith 1 s arc cific h.	s. he halysis