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Docket No.: 50-364

NL-23-0883

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

Joseph M. Farley Nuclear Plant - Unit 2 Licensee Event Report 2023-003-00 <u>Pressurizer Code Safety Valve Lift Pressure</u> <u>Outside of Technical Specifications Limits</u>

Ladies and Gentlemen:

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

This letter contains no NRC commitments. If you have any questions regarding this submittal, please contact Gene Surber, Licensing Manager, at (334) 661-2265.

Respectfully submitted,

Edwin Dean

Vice President – Farley

SD/rgs/cbg

Enclosure: Unit 2 Licensee Event Report 2023-003-00

Cc: Regional Administrator, Region II NRR Project Manager – Farley Nuclear Plant Senior Resident Inspector – Farley Nuclear Plant RTYPE: CFA04.054 Joseph M. Farley Nuclear Plant - Unit 2 Licensee Event Report 2023-003-00 Pressurizer Code Safety Valve Lift Pressure Outside of Technical Specifications Limits

Enclosure

Unit 2 Licensee Event Report 2023-003-00

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION									APPROVED BY OMB: NO. 3150-0104 EXPIRES: 03/31/2024											
(10-01-2023)									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											
LICENSEE EVENT REPORT (LER)									learned are incorporated into the incensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB reviewer											
(See Page 2 for required number of digits/characters for each block) (See NUREG-1022, R.3 for instruction and guidance for completing this form								1	at: OMB office of Information and Regulatory Affairs, (3150-0104), Ath: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; email: <u>oira: submission@omb.eop.gov</u> . The NRC may											
http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)								I	not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.											
1. Facility Name								Ī	050 2. Docket Number				3	3. Page						
Joseph M. Farley Nuclear Plant, Unit 2								۲ ۲		052 364					1	OF	2			
4. Title										-	<u> </u>									
Pressurizer Code Safety Valve Lift Pressure Outside of Technical Specifications Limits																				
5. Event Date 6. LER Number					Number	7. Report Dat				8. Other Facilities Involved					Rel St					
Month	Month Day Year		Year Sequential Number			evision No.			Y	ear	Facility Name				050			Docket Number		
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9. Operating	9. Operating Mode					10. Pc				ower Level										
6 000																				
11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)																				
10 CFR Part 20 20.2203(a)(2)(vi					10 CFR Part 50				50.73(a)(2)(ii)(A)			50.73(a)(2)(viii)(A					200(a)			
20.220	1(b)		20.2203(a)(3)(i)			50.36(c)(1)(i)(A)				50.73(a)(2)(ii)(B)			50.73(a)(2)(viii)(B				73.1	200(b)		
20.220	1(d)		20.2203(a)(3)(ii)			50.36(c)(1)(ii)(A)				50.73(a)(2)(iii)			50.73(a)(2)(ix)(A)				73.1	200(c)		
20.2203(a)(1) 20.2203(a)(4))	50.36(c)(2)							50.73(a)	(a)(2)(x) 73.1200(d)						
20.2203(a)(2)(i) 10 CFR Part 21						50.46(a)(3)(ii)							10 CFR F							
20.220	3(a)(2)(i	i) [21.2(c)			50.69(g)				50.73(a)(2)(v)(B)			73.77(a)(1)				73.1200(f)			
20.220	3(a)(2)(i	ii)				50.73(a)(2)(i)(A)				50.73(a)(2)(v)(C)			73.77(a)(2)(i)				73.1200(g)			
20.220	3(a)(2)(i	V)				50.73(a)(2)(i)(B)				50.73(a)(2)(v)(D)			73.77(a)	73.77(a)(2)(ii)			73.1200(h)			
20.2203(a)(2)(v)						50.73(a)(2)(i)(C)				50.73(a)(2)(vii)										
	R (Speci	fy here,	in abstrac	t, or NR	C 366A).															
					2	12	2. Licensee	Conta	ct for t	his Li	ER									
	Licensee Contact Phone Number (Include area code) Gene Surber. Licensing Manager (334) 661-2265																			
Gene Suri	ber. Lic	censing		1.1.1.	nnloto On	Line	for each Co		ont Ea	iluro I	Decoribo	d in thi	s Benort		(55	-) 00	1-22	00		
Cause		ntor-	Compor		fanufacture				Cau		1		Component	Ma	nufactu	-	long	bla to IDIC		
	Cause System		RV		C710		Reportable to IRI		Cau	58	System						Reportable to IRIS			
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	14. Supplemental Report Expected								-	Moni 15. Expected Submission Date				an un	Da	y	Year			
Ves (If yes, complete 15. Expected Submission Date)																				
16. Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines) On October 24, 2023, while at 0% power level and Mode 6 (refueling), it was discovered that a Unit 2 pressurizer code safety																				
													-site for tes							
pressure t	est. Th	e PSV	lifted at	bove th																
pressure test. The PSV lifted above the Technical Specification (TS) 3.4.10 allowable lift setting value. Setpoint drift of the PSV is the most likely cause of the failure.																				
It is likely that the PSV was outside of the TS limits longer than allowable by the Required Action Statement (15 minutes) during																				
the previous operating cycle in all applicable modes of operation. Therefore, this condition is being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by TS.																				
The PSV was replaced during the October 2023 refueling outage.																				

NRC FORM 366A U.S. NUCLEAR REGULATOR	RY COMMISSION	APPROVED BY OMB: NO.	. 3150-010)4	EXPIRE	S: 0	3/31/2024				
(10-01-2023) LICENSEE EVENT REPOR CONTINUATION SHE (See NUREG-1022, R.3 for instruction and guidance for com	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, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollects.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; email: <u>oira submission@omb.eop.gov</u> . The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document										
http://www.nrc.gov/reading-rm/doc-collections/nuregs/sta	sponsor, and a person is not required to respond to, a collection of information unless the documen requesting or requiring the collection displays a currently valid OMB control number.										
1. FACILITY NAME	050	2. DOCKET NUMBER	VEAD	-	3. LER NUMBER SEQUENTIAL	-	REV				
Joseph M. Farley Nuclear Plant, Unit 2		364	YEAR		NUMBER	Ι,	NO.				
	052	(/	2023 -				00				
NARRATIVE			1 - M. 7-		3.55		152983				
EVENT DESCRIPTION:		and they are the		i.	and the second sec						
On October 24, 2023, while Unit 2 was at 0% power level and in Mode 6 (Refueling), with the Reactor Coolant System (RCS) [AB] at atmospheric pressure and 91 degrees Fahrenheit, the 2C Pressurizer Code Safety Valve (PSV) [RV] (Serial # N56963-01-0003, Manufacturer: Crosby; Model: HB-86-BP) was removed as part of the routine In-Service Testing (IST) program and sent to an off-site testing facility. The as-found lift pressure was discovered to be 2522 psig which was outside of the Technical Specification (TS) 3.4.10 allowable lift pressure settings of >/= 2423 psig and = 2510 psig. The tested valve was within the ASME code acceptance band of +/- 3% (2411-2559 psig). Based on the lift pressure meeting the IST program (ASME code) monitored requirements, there was no IST scope expansion for the PSV.</td											
EVENT ANALYSIS:											
Setpoint drift of the PSV was determined to be the most likely cause of the failure.											
REPORTABILITY AND SAFETY ASSESSMENT:											
This failure constitutes a condition that is reportable pursuant to 10 CFR 50.73(a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications." There is no firm evidence, prior to the time of discovery at the test facility, of when the failure occurred. Since the as-found lift setpoint was within ASME Code allowance and less than 110% design pressure of the RCS, the condition did not have an adverse impact on its over-pressurization function. The as-found lift pressure was 2522 psig, and the valve re-closed following the lift. There were no actual safety consequences for this event. No safety system responses occurred. There was no release of radioactivity.											
CORRECTIVE ACTIONS:											
The PSV was replaced during the October 2023 refueling outage. The as-left setpoints were within +/- 1% tolerance. Previous corrective actions for PSV failures included a spring changeout campaign for all PSV's and TS 3.4.10 was also previously revised. The 2C PSV that was removed was the last PSV in the spring changeout campaign.											
PREVIOUS SIMILAR EVENTS:	9										
Similar events have been reported for Unit 1 and	Unit 2.						,				
LER 2023-01-00 LER 2020-02-00 LER 2019-01-00 LER 2018-01-00 LER 2017-03-00											
OTHER SYSTEMS AFFECTED:											
No other systems were affected by this event.											