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December 12, 2016

Docket Nos.: 50-348

NL-16-2478

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

> Joseph M. Farley Nuclear Plant – Unit 1 Licensee Event Report 2016-003-00 Pressurizer Safety Valve Setpoint Pressure Outside of Technical Specification Tolerance Band

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 a condition prohibited by Technical Specifications.

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./Gayheart Vice President – Farley

CAG/JAC

Enclosure: Unit 1 Licensee Event Report 2016-003-00

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cc: Southern Nuclear Operating Company

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. K. D. Miller, Operating Experience Coordinator - Farley RTYPE: CFA04.054

U. S. Nuclear Regulatory Commission

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 2016-003-00

NL-16-2478

Pressurizer Safety Valve Setpoint Pressure Outside of Technical Specification Tolerance Band

NRC FORM 366			U.S. NUCLEAR REGULATORY COMMISSION APP					PPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2018					
LICENSEE EVENT REPORT (LER)							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 intermet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Olficer, Olfice of Information and Regulatory Alfairs, NEOB-10202, (3150-0104), Olfice 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 no required to respond to, the information collection.						
1. FACILITY NAME						2. DOCKE	DOCKET NUMBER 3. PAGE						
Joseph M. Farley Nuclear Plant, Unit 1						0500	0 -	348	1 OF 3				
4. TITLE	4. TITLE												
Pressurizer Safety Valve Setpoint Pressure Outside of Technical Specification Tolerance Band													
5. EVENT DATE 6. LER NUMBER				7. R	EPORT	DATE 8. OTHER			ACILITIES INVOLVED				
MONTH	DAY	YEAR	YEAR SEQU	MBER REV NO.	MONTH	DAY	YEAR	FACILITY NAME DOCKET NUMBER			IUMBER		
10	13	2016	2016 - 0	003 - 00	12	12	2016	FACILITY NAME		DO	CKET N	IUMBER	
9. OPERA	TING MO	DDE	11. THIS REPO	RT IS SUBMITTE	D PURSUA	NT TO T	HE REQU	IREMENTS	OF 10 CFR §:	(Check all th	at ap	ply)	
1			20.2201(b) 20.2203(a)(3)(			i)	50.73(a)(2)(ii)(A)			50.73(a)(2)(viii)(A)			
<b>1</b> (	Defueled		20.2201(0	20.2203(a)(3)(ii)		50.73(a)(2)(li)(B)		50.73(a)(2)(viii)(B)					
			20.2203(a	20.2203(a)(4)		50.73(a)(2)(iii)		50.73(a)(2)(ix)(A)					
			20.2203(a	50.36(c)(1)(i)(A)		50.73(a)(2)(iv)(A)		50.73(a)(2)(x)					
10. POWE	RLEVE	L	20.2203(a	50.36(c)(1)(ii)(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)					
	0%		20.2203(a	50.46(a)(3)(ii)		50.73(a)(2)(v)(C)		73.77(a)(1)					
			20.2203(a	50.73	50.73(a)(2)(i)(A)		50.73(a)(2)(v)(D)		73.77(a)(2)(i)				
			20.2203(a	50.73	50.73(a)(2)(l)(B)		50.73(a)(2)(vii)		73.77(a)(2)(ii)				
			50.73(a)(2)(i)(			C)	OTHER Specify in Abstract below or in NRC Form 366A				Form 366A		
LICENSEE CON	TACT			12. LICE	INSEE CO	NTACT F	OR THIS I	ER		MRED (lookuda )	Ime C-	vdel	
Julie Collier, Licensing Engineer							334-814-4639						
		1:	3. COMPLETE C	NE LINE FOR E	ACH COMP	ONENT	FAILURE	DESCRIBED	IN THIS REP	ORT			
CAUSE	S	YSTEM	COMPONENT	MANU- FACTURER	REPORTABL TO EPIX	E	CAUSE	SYSTEM	COMPONENT	MANU- FACTURE	A	REPORTABLE TO EPIX	
E		SB	RV	C710	Y								
14. SUPPLEMENTAL REPORT EXPECTED							15.	EXPECTED	MONTH	DA	/ YEAR		
YES (If yes, complete 15. EXPECTED SUBMISSIO				TED SUBMISSIOI	V DATE)	🛛 NO	10		DATE				
ABSTRACT	(Limit to t	400 space	ns, i.e., approximate	ly 15 single-spaced	typewritten li	nes)					1		
On 10/13/2016 it was discovered that a Unit 1 pressurizer safety valve (PSV), which had been removed													

On 10/13/2016 it was discovered that a Unit 1 pressurizer safety valve (PSV), which had been removed during the October 2016 refueling outage and shipped offsite for testing, failed its as-found lift test. The PSV lifted below the Technical Specification (TS) 3.4.10 allowable lift setting value. Seat leakage of the PSV is the most likely cause of the setpoint drift.

It is likely that the PSV was outside the TS limits longer than allowed by the Required Action Statement (15 minutes) during the Cycle 27 applicable modes of operation. Therefore, this condition is being reported in accordance with 10 CFR 50.73(a)(2)(i)(B) for a condition which was prohibited by the plant's Technical Specifications.

The PSV was replaced during the October 2016 refueling outage.

NRC FOR (11-2015)	LICENSEE EVENT REPORT (LER) CONTINUATION SHEET	APPROVED BY OMI Estimated burdon por res Reported lessons learned Send comments regarding Branch (7-5 F53), U.S. N Internet e-mail to Inlocotle and Regulatory Atlaits, Washington, DC 20503. If currently valid OMB contro required to respond to, the <b>2. DOCKET</b> 05000-	3: NO. 3150-0104 are incorporated into the g burden estimate to the uclear Regulatory Com- tcls.Resource@nrc.gov, NEOB-10202, (3150-0 a means used to impose of number, the NRC may information collection. NUMBER 348	this mandaton re licensing pro- mission, Wasi and to the De 104), Ollico e an informati y not conduct of YEAR 2016	Is mandatory collection request; 80 hours. Iteensing process and fed back to industry. FOIA, Privacy and Information Collections ission, Washington, DC 20555-0001, or by nd to the Desk Officer, Office of Information 04), Office of Management and Budget, an information collection does not display a not conduct or sponsor, and a person is not 3. LER NUMBER YEAR SEQUENTIAL REV NUMBER NO. 2016 - 003 - 00				
NARRAT	PIVE								
А.	PLANT AND SYSTEM IDENTIFICATION								
	Westinghouse - Pressurized Water Reactor								
В.	DESCRIPTION OF EVENT During the Unit 1 October 2016 refueling outage (1R27) the Pressurizer Safety Valve (PSV) was removed as part of the routine inservice inspection testing program and sent to an offsite testing facility. The as found lift pressure for this PSV was discovered to be 2443 psig which was outside of Technical Specification (TS) 3.4.10 allowable lift settings of ≥ 2460 psig and ≤ 2510 psig. During cycle 27 there were no indications of seat leakage from this PSV as evidenced by tailpipe temperature indication. However, during 1R27 a small amount of boric acid was evident when the valve was removed for valve testing and dismantled during the outage, indicating some leakage had occurred during the cycle. Data from the plant trip on 10/1/2016 was reviewed and there was no indication that any of the pressurizer safety valves lifted during the transient. The primary system response was considered								
C.	caused the PSVs to lift.								
	Unit 1, Defueled Unit 2, Mode 1, 100 percent power								
D.	. CAUSE OF EVENT								
	Seat leakage of the PSV is the most likely cause of the se	tpoint drift.							
E.	REPORTABILITY ANALYSIS AND SAFETY ASSESSME	NT							
	This failure constitutes a condition that is reportable pursu or condition which was prohibited by the plant's Technical relevant information (e.g., equipment history and the caus the failure to meet the lift setting requirements occurred pr The setpoint could have drifted below the allowable value time of discovery.	ant to 10 CFR 5 Specifications." e of failure), ther ior to the time of at any time betw	0.73(a)(2)(i)(E Based upon a re is no firm er f discovery at veen startup fi	3), "Any of a review vidence the test rom 1R2	operation of of when facility. 6 and the				
	Since the as found lift setpoint was lower than the allowed condition did not have an adverse impact on over pressuri overpressure protection function. The as found lift pressur following the lift. This is within the safety analysis assumpt Valves, and the plant remained bounded by the accident a had no significant effect on the health and safety of the pu	value in the Teo zation, and the v e was 2443 psig tions that are cre analyses in the F blic.	chnical Specif valve continue and the valve dited for Pres SAR. Theref	ications, ed to per e reclose ssurizer t ore, this	the form its ed Safety condition				
	The inservice testing (IST) requirement of plus or minus 3	% of 2485 psig (	2411 – 2559 j	psig) wa	s met.				

NRC FOI (11-2015)	RM 3	LICENSEE EVEN CONTINUAT	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 led 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 Once.gov, and to the Desk Officer, Office of Information and Regulatory Alfairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. It 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				2. DOCKET NUMBER 3. LER NUMBER							
		Joseph M. Farley Nuclea	05000- 348	YEAR	SEQUENTIAL	REV NO.					
	,						- 003 -	· 00			
NARRA	NARRATIVE										
F.	F. CORRECTIVE ACTION The PSV was replaced during the October 2016 refueling outage. An additional PSV that was removed for routine IST requirements was tested satisfactorily. The setpoints were left at plus or minus 1% tolerance.										
G.	AD	DITIONAL INFORMATION									
	1)	Failed Components:	Pressurizer safety valve								
	2)	Previous Similar Events:	<ul> <li>A similar event was reported for Unit 1 LER 2015-004-00. For that event, there had been indication of seat leakage during the previous operating cycle based on elevated tailpipe temperatures. This was not seen in this event.</li> </ul>								
	3)	Other system affected:	No systems other than those mentioned in this report were affected by this event.								
	4)	Commitment Information:	This report does not create	any licensing	commitments						
	5)	Energy Industry Identificat [SB]	ion System Code:								