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March 10, 2003

10 CFR 50.73

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

PALISADES NUCLEAR PLANT DOCKET 50-255 LICENSE NO. DPR-20 LICENSEE EVENT REPORT 03-001, INOPERABLE STEAM GENERATOR LOW-LEVEL CHANNELS

Licensee Event Report (LER) 03-001 is attached. The LER describes the discovery that all four steam generator reactor protection system low-level trip setpoints in each steam generator were set such that the trip could occur below the allowable value specified in Technical Specification 3.3.1. This occurrence is reportable in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

SUMMARY OF COMMITMENTS

This letter contains no new commitments and no revisions to existing commitments.

Douglas E. Cooper Site Vice-President, Palisades

CC Regional Administrator, USNRC, Region III Project Manager, USNRC, NRR NRC Resident Inspector, Palisades

Attachment



NRC FORM 366 U.S. NUCLEAR REGULATORY (7-2001) COMMISSION							APPROVED BY OMB NO. 3150-0104 EXPIRES 7-31-2004 Estimated burden per response to comply with this mandatory information collection request 50 hours Reported lessons learned are incorporated into the licensing process and fed back to industry Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U S Nuclear Reputator Communication DC 20555 0001 or burden at a mail to be 10 mm action and to											
LICENSEE EVENT REPORT (LER)							the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104), Office of											
(See reverse for required number of							Management and Budget, Washington, DC 20503 If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a											
digits/characters for each block)									person is not required to respond to, the information collection									
1. FACILITY NAME								2. DOCKET NUMBER						PAGE				
PALISADES NUCLEAR PLANT							05000255					1 OF 3						
4. TITLE																		
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5 EVENT DATE 6. LER NUMBER 7. F						REPORT DATE			8. OTHER			FACILITIES INVOLVED						
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9. OPERATING					11. THIS REPORT IS SUBMI				TED PURSUANT TO THE REQUIREMENTS OF				F 10 CFR : (Check all that apply)					
MODE		1		20 2	2201(b)		20 2203(a)(3)(II)				50.73(a)(2)(II)(B)			50 73(a)(2)(IX)(A)				
10. POWER LEVEL			20 2201(d) 20 22			20 220	03(a)(4)			50.73(a)(2)(iii)		50 73(a)(2)(x)						
		100		20 2	2203(a)(1)	50 36		(c)(1)(I)(A)			50.73(a)(2)(iv)(A)		73 71(a)(4)					
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				20 2	2203(a)(2)(iii) 50 46			i(a)(3)(II)			50 73(a)(2)(v)(C)			NRC Form 366A				
				20 2203(a)(2)(IV) 50 730 20 2203(a)(2)(V) X 50 730			(a)(2)(I)(A)			50 73(a)(2)(v)(D)								
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Barb Dotson, Regulatory Analyst							ACULOG											
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16 ABSTRACT	es, compi			<u>EUS</u>	approximatel	V 15 s	:) unale-sr	aced	tvpewritten i	ines		•						
On Januar	- (ot (201	5 hours	with	the r	lant	in Mod	<u>م</u> ،	" 1. it was d	otormi	ne	d fror	n a rev	view of		

On January 15, 2003, at 2015 hours, with the plant in Mode 1, it was determined from a review of surveillance procedure basis information, that all four steam generator (SG) reactor protection system (RPS) low-level trip setpoints in each SG were set such that the trip could occur below the allowable value specified in Technical Specification (TS) 3.3.1. The SG low-level trip setpoints were declared inoperable. It was determined that this condition had existed since 1998.

TS 3.3.1 requires four associated instrument channels, for the SG low-level RPS trip functions, to be operable in Modes 1 and 2, and in Modes 3, 4 and 5 when more than one full-length control rod is capable of being withdrawn and the primary coolant system boron concentration is less than refueling boron concentration. TS 3.3.1 does not provide a condition for four SG level instrument channels being inoperable. Therefore, TS 3.0.3 was entered. Nuclear Management Company, LLC, (NMC), requested enforcement discretion to extend the completion times in TS 3.0.3 by an additional 36 hours to avoid a plant shutdown. The Nuclear Regulatory Commission Staff verbally exercised discretion on January 16, 2003 at 0017 hours.

This occurrence is reportable in accordance with 10 CFR 50.73(a)(2)(i)(B) as a condition prohibited by Technical Specifications.

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	2. DUCKET		6. LER NUMBER		3. PAG	E .	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
PALISADES NUCLEAR PLANT	05000255	2003		00	2	OF	3
17. NARRATIVE (If more space is required, use eddition EVENT DESCRIPTION On January 15, 2003, at 2015 hours surveillance procedure basis informat protection system [JC] (RPS) low-lew occur below the allowable value spe- setpoints were declared inoperable. TS 3.3.1 requires four associated inst operable in Modes 1 and 2, and in M capable of being withdrawn and the refueling boron concentration. TS 3 channels being inoperable. Therefo (NMC), requested enforcement discr 36 hours to avoid a plant shutdown. discretion on January 16, 2003 at 00 This occurrence is reportable in accor by Technical Specifications. CAUSE OF THE EVENT A vendor calculation error resulted in correction factor term. This resulted steam generators in a manner that of requirement. This was compounded deficiencies by the plant engineering CORRECTIVE ACTIONS	, with the plant in ation, that all four vel trip setpoints in cified in Technica It was determined strument channel lodes 3, 4 and 5 primary coolant s .3.1 does not pro re, TS 3.0.3 was retion to extend t The Nuclear Re 017 hours. ordance with 10 (the incorrect de in biasing the ca could cause the a i by knowledge d staff.	^{366A)} ^{366A)} ^a Mode 1, ^c steam ge in each Se al Specific ed that thi ls, for the when mo system [A bvide a co entered. he comple gulatory (CFR 50.73 eterminational alculated so associated leficiencie	it was deter enerator [SG G were sets cation (TS) 3 s condition SG low-leve re than one B] boron co ndition for a Nuclear Ma etion times i Commission 3(a)(2)(i)(B) on for the Se setpoints for d trips to act es and techr	rmined fr 5;AB] (S0 such that 3.3.1. The had exist el RPS tr full-leng ncentrati Il four S0 anageme in TS 3.0 Staff ve as a cor G level tr the RPS uate belo nical revie	om a G) reat the te e SG ted sit ip fur th cor on is G leve nt Cc 0.3 by rbally ndition	review ictor rip cou low-le nce 19 nctions trol ro less th mpan an ad exerc n prohi	v of uld vel trip 998. , to be od is nan ument y, LLC, ditional ised ibited ibited
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		VEAR	SEQUENTIAL							
PALISADES NUCLEAR PLANT	05000255	2003	 - 001 -	00	3	OF	3			
17. NARRATIVE (If more space is required, use additional The need for further training is being e procedures and calculation of the stat differential pressure transmitters.	al copies of NRC Form 3 evaluated for ap ic pressure shif	366A) propriate t correctic	system and on factor terr	design n for Ro	engin semo	eers ir unt	n the			
Rigorous application of engineering pl	rinciples was re	iterated.								
The instrument setpoint methodology learned from this event.	design guide is	being rev	<i>i</i> sed to inco	rporate	the les	ssons				
The SG level transmitter calibration protected to the correct values during the 2003	rocedure is bein refueling outage	ıg revised ३.	and the trai	nsmitter	s will t	be res	tored			
SAFETY SIGNIFICANCE										
The allowable value for the SG low-level setpoints contained in TS 3.3.1 is \geq 25.9%. The allowable value was chosen to assure that Auxiliary Feedwater (AFW) flow would be initiated while the SG could still act as a heat sink and steam source, and to assure that a reactor trip would not occur on low level without the actuation of AFW.										
NMC determined that the configuration of approximately 24.71%. Although let the analytical value (18.14%) contained uncertainties.	on of the low leve ess than the TS ed in the plant s	el trip set allowable afety ana	points result e value, this Ilysis, after ir	ed in a v setpoint ncluding	vorst- is gre total l	case s eater ti loop	₃etpoint han			
Therefore, since analytical limits were	maintained, thi	is event h	ad no safety	/ signific	ance.					
PREVIOUS SIMILAR EVENTS										
None										