

Paula Gerfen **Site Vice President**  **Diablo Canyon Power Plant** Mail code 104/6/605 P.O. Box 56 Avila Beach, CA 93424

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January 29, 2020

PG&E Letter DCL-20-005

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

10 CFR 50.73

Docket No. 50-323, OL-DPR-82 Diablo Canyon Power Plant, Unit 2 Unit 2 Licensee Event Report 2019-001-00, Containment Spray Inoperable in Mode 4

Dear Commissioners and Staff,

Pacific Gas and Electric Company (PG&E) hereby submits the enclosed Diablo Canvon Power Plant (DCPP) Unit 2 Licensee Event Report (LER) regarding a condition in which the containment spray pumps 2-1 and 2-2 were inoperable during Mode 4. PG&E is submitting this LER in accordance with 10 CFR 50.73(a)(2)(v)(D) as an event or condition that could have prevented fulfillment of a safety function.

PG&E makes no new or revised regulatory commitments (as defined by NEI 99-04) in this report. All corrective actions identified in this letter will be implemented in accordance with the DCPP Corrective Action Program.

This event did not adversely affect the health and safety of the public.

Sincerely,

Paula Gerfen

dgmg/51057622 Enclosure cc/enc:

Scott A. Morris, NRC Region IV Administrator Christopher W. Newport, NRC Senior Resident Inspector Balwant K. Singal, NRR Senior Project Manager **INPO Diablo Distribution** 

NRC FO	RM			U.S. NUCL	EAR R	EGULATOR	COMN	ISSION	APPROVED BY	OMB:	NO. 3150-	0104	XPIRES:	03/31/2020
<b>366</b> (04-2018)									Estimated burden per	response t	o comply with	this mandator	y collection re	quest: 80 hours.
NUCLEAR RE	GU,	1				EPORT (	I FR)		Reported lessons lea industry. Send comm	arned are i nents regard	ncorporated i ling burden e	nto the licensi estimate to the	ng process a Information	ind fed back to Services Branch
SHUCLE	ATONA							block)	(T-2 F43), U.S. Nucle	ar Regulato	ry Commissio	n. Washington	DC 20555-00	001. or by e-mail
STATE STATE	COM		-		-	its/characters			to Infocollects.Resou Regulatory Affairs,	rce@nrc.gov NEOB-1020	v, and to th )2, (3150-010	e Desk Office 04), Office of	r, Office of Managemer	Information and it and Budget,
P. N. S.	and and a second					guidance for c		01-21	Washington, DC 205 display a currently va	i03. If a me	eans used to	impose an ir	formation col	lection does not
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1. Facilit									. Docket Numbe	er		3. Page		
Diablo	o Can	yon Pov	ver Pla	int, Unit	2				05000323				1 OF 4	•
4. Title				- 11-1										
Contai	inment	Spray Ir	noperat	ole in Mo	de 4				i					
5.	Event D	Date	6.	LER Numb	er	7. F	Report D	Date			8. Other	Facilities I	volved	
Month	Day	Year	Year	Sequential	Rev	Month	Day	Year	Facility Name				Docket Nu	mber
Wonth	Day	rear	rear	Number	No.	Month	Day	1 cai					05000	
11	30	2019	2019	- 001	- 00	0 01	29	2020	Facility Name				Docket Nu	mber
11	30	2019	2019	- 001	- 00		29	2020					05000	
9.0	Operating I	Mode			11. This	s Report is Su	bmitted I	Pursuant to	the Requirement	s of 10 CF	R§: (Cheo	k all that ap	ply)	
			□ 20.2	2201(b)		20.2203			50.73(a)(2)				3(a)(2)(viii)	(A)
	4			2201(d)		20.2203			50.73(a)(2)				B(a)(2)(viii)	
				2203(a)(1)		20.2203			50.73(a)(2)				3(a)(2)(ix)	
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				2203(a)(2)(		50.36(c)			50.73(a)(2)				3(a)(2)(x)	
10.	Power L	.evel		2203(a)(2)(		50.36(c)			50.73(a)(2)			73.7		
	000		20.2203(a)(2)(iii) 50.36(c)(2)					50.73(a)(2)(v)(B)			73.71(a)(5)			
	000					☐ 50.46(a)	] 50.46(a)(3)(ii)		50.73(a)(2)(v)(C)			☐ 73.77(a)(1)		
			20.2	2203(a)(2)(	/)	☐ 50.73(a)(2)(i)(A)			⊠ 50.73(a)(2)(v)(D)		☐ 73.77(a)(2)(ii)			
			20.2	2203(a)(2)(	/i)	🗌 50.73(a)	(2)(i)(B)		50.73(a)(2)	(vii)		73.7	7(a)(2)(iii)	
						🗌 50.73(a)	(2)(i)(C)		Other (Spe	ecify in Al	bstract bel	ow or in NF	C Form 30	56A
						12. Lice	ensee C	ontact for	this LER					
Licensee Co	ntact											umber (Include	Area Code)	
David	Madse	n			Y						805-54	5-6192		
				13. C	omplete	One Line for e	each Con	nponent Fa	ilure Described in	this Repo	rt			
Cau	se	System	Compo	onent Ma	nufacture	er Reportable	To ICES	Cause	System	Comp	onent	Manufactu	er Repo	rtable To ICES
	14	Supplom	ntal Par	ort Expec	tod.							Month	Day	Year
						5	· · · · ·	15.	Expected Subm	ission D	ate	monar	Duy	
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				Mode 5 e		werreniov	eu) ea	amer m u	ne day, at ap	proxima	atery 02.	or nours	as part o	ונ
piepa	rationa	s ioi a pi	anneu i	Mode 5 e	inu y.									
The c	ontain	ment spr	av pun	nos are re	eauire	d to be ope	erable	(along w	ith the conta	inment	fan coo	ler units	CFCUs	)) in
									With Containr					,
inope	rable, <sup>·</sup>	TS 3.6.6	Condit	ion F rec	uires	immediate	entry	into TS 3	3.0.3. Since	Unit 2 v	was in M	lode 4, T	S 3.0.3 I	
placin	g the u	unit in M	ode 5 w	vithin 37	hours.	At 1125 ł	nours,	both trai	ns of contain	ment s	pray we	re returne	ed to ope	erable
					ed. T	he five CF	CUs re	emained	operable at a	all times	s throug	hout the	inoperat	oility of
the co	ontainn	nent spra	ay pum	ps.									3	
This	vont	100 0 100	ult of h	umon cr	or									
THISE	vent M	192 9 162	uit of h	uman er	01.									

There was no impact on the health and safety of the public or plant personnel.

NRC FORM 366A U.S. NUCLEAR REGULA	ATORY COMMISSION	APPROVED BY OMB: NO. 3150-010	)4	EXPIRES:	3/31/2020
(04-2018) LICENSEE EVENT RI CONTINUATION S (See NUREG-1022, R.3 for instruction and guidance for http://www.nrc.gov/reading-rm/doc-collections/nuregs/s	EPORT (LER) SHEET or completing this form	Estimated burden per response to comply wi lessons learned are incorporated into the comments regarding burden estimate to the Regulatory Commission, Washington, Infocollects.Resource@nrc.gov, and to the D NEOB-10202, (3150-0104), Office of Manage used to impose an information collection doe NRC may not conduct or sponsor, and a collection.	th this mandatory icensing proc Information Sen DC 2053 esk Officer, Offic ement and Budg is not display a c	v collection request: 80 hd ess and fed back to i irices Branch (T-2 F43), 55-0001, or by e of Information and Reg et, Washington, DC 2050 currently valid OMB control	ours. Reported industry. Send U.S. Nuclear e-mail to ulatory Affairs, 3. If a means ol number, the
1. FACILITY NAME	2. DOCKET N	UMBER		3. LER NUMBER	
Diablo Canyon Power Plant, Unit 2	05000-323		YEAR	SEQUENTIAL NUMBER	REV NO.
NADDATIVE			2019	- 001	- 00
I. Reportable Event Classification					
This event is being reported in accordan NUREG-1022, as an event or condition t					
Event Notice (EN) 54417 reported this e condition that may have degraded plant that since all five containment fan cooler unanalyzed condition that significantly de not applicable.	safety. However, units (CFCUs) rer	further engineering review on mained operable during this	of the ever	nt has determin ce, there was n	ot an
II. Plant Conditions					
At the time of the event, Diablo Canyon I to enter Mode 5 (Cold Shutdown).	Power Plant (DCP	P) Unit 2 was in Mode 4 (H	ot Shutdo	wn) while prepa	aring
III. Problem Description					
A. Background					
Both containment spray pumps are required function of the containment spray system upper regions of containment to reduce of the containment atmosphere during a de current (DC) control power switches rend	n is to provide a sp containment press esign basis accider	oray of borated water mixed oure and temperature, and to nt (DBA). Opening the cont	with sodiu o reduce f ainment s	um hydroxide ir ission products	nto the from
B. Event Description					
During the evening of November 29, 201 to transition Unit 2 from Mode 4 to Mode by writing necessary clearances, prepari was to disable the containment spray pu action, which should have been performe on November 30, 2019, with Unit 2 still in pumps as a result of human error. At 11 entered TS 3.6.6 Condition F due to two requires immediate entry into TS 3.0.3. I 1125, and TS 3.6.6 and 3.0.3 were exited	5 in response to a ng procedures, an mps by opening th ed following entry in Mode 4. The DC 00, the next opera trains of containm Both pumps were	an equipment issue. Operated hanging configuration corneir associated DC control p into Mode 5, was completed control power was remove ting crew (day shift) recogn ent spray being inoperable.	tions prep ntrol tags. ower knife d at appro d from the ized the e TS 3.6.6	ared for Mode One such action switches. This ximately 0237 I containment s rror and immed Condition F.1	5 entry on is hours spray diately

C. Status of Inoperable Structures, Systems or Components that Contributed to the Event

NRC FORM 366A U.S. NUCLEAR REGULA	TORY COMMISSION	APPROVED BY OMB: NO. 3150-010	4	EXPIRES: 3	3/31/2020
LICENSEE EVENT RI CONTINUATION S		Estimated burden per response to comply wit lessons learned are incorporated into the comments regarding burden estimate to the Regulatory Commission, Washington, Infocollects.Resource@mrc.gov, and to the De NEOB-10202, (3150-0104), Office of Manage	licensing proc Information Serv DC 2055 esk Officer, Office	ess and fed back to in vices Branch (T-2 F43), 1 55-0001, or by e of Information and Regu	ndustry. Send U.S. Nuclear e-mail to Ilatory Affairs,
(See NUREG-1022, R.3 for instruction and guidance for http://www.nrc.gov/reading-rm/doc-collections/nuregs/s		used to impose an information collection does NRC may not conduct or sponsor, and a collection.	s not display a c	currently valid OMB control	I number, the
1. FACILITY NAME	2. DOCKET N	JMBER		3. LER NUMBER	
Diablo Canyon Power Plant, Unit 2	05000-323		YEAR	SEQUENTIAL NUMBER	REV NO.
		×	2019	- 001	- 00
There were no inoperable structures, sy D. Other Systems or Secondary System		ents that contributed to the e	event.		
None.					
E. Method of Discovery					
Self-identified. This condition was disco	vered by Operatio	ns personnel.			
F. Operator Actions					
Upon discovery of both trains of contain and TS 3.0.3 at 1100 on 11/30/19. Both exited at 1125. The Operations crews re	pumps were rest	ored to operable status, and	d the asso	ciated TS were	Э
G. Safety System Responses					
There were no safety system responses and available during the period of contain			CFCUs r	emained opera	ble
IV. Cause of the Problem					
The DC control power was removed from	n containment spr	ay pumps as a result of hur	man error		
V. Assessment of Safety Consequences	S				
There were no safety consequences as Outage 21 while preparations were being core. Containment integrity was maintai event. Given the Unit 2 conditions at the sufficient containment cooling in the even	g made to return L ned, and all five co time, two of the fi	Jnit 2 to Mode 5, with relativ ontainment fans coolers ren ve containment fan coolers	vely low de nained op	ecay heat in the berable during t	e
There was no impact on the health and s	safety of the public	or plant personnel.			

U.S. NUCLEAR REGULA 44-2018) LICENSEE EVENT R CONTINUATION	EPORT (LER)	APPROVED BY OMB: NO. 3150-010 Estimated burden per response to comply wi lessons learned are incorporated into the comments regarding burden estimate to the Regulatory Commission, Washington,	th this mandatory licensing proce Information Serv	ess and fed back to i	ours. Reporte industry. Ser
(See NUREG-1022, R.3 for instruction and guidance fi http://www.nrc.gov/reading-rm/doc-collections/nuregs/s	or completing this form	Infocollects.Resource@nrc.gov, and to the D NEOB-10202, (3150-0104), Office of Manage used to impose an information collection doe NRC may not conduct or sponsor, and a collection.	ement and Budge s not display a c	et, Washington, DC 2050 urrently valid OMB contro	3. If a mear of number, th
1. FACILITY NAME	2. DOCKET N	UMBER		3. LER NUMBER	1
Diablo Canyon Power Plant, Unit 2	05000-323		YEAR	SEQUENTIAL NUMBER	REV NO.
			2019	- 001	- 00
The containment spray pumps were pro					
VI. Corrective Actions The containment spray pumps were pro corrective actions to prevent recurrence VII. Additional Information					
The containment spray pumps were pro corrective actions to prevent recurrence VII. Additional Information	will be managed i	n accordance with DCPP C			
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