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January 16, 2014

PG&E Letter DCL-14-003

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001 10 CFR 50.73

Docket No. 50-275, OL-DPR-80 Diablo Canyon Unit 1 Licensee Event Report 1-2013-008-00, Technical Specification 3.3.4 Not Met Due to Inoperable Remote Shutdown System Function

Dear Commissioners and Staff;

Pacific Gas and Electric Company (PG&E) submits the enclosed Licensee Event Report (LER) for a condition prohibited by Technical Specifications (TS) when TS 3.3.4 was not met because of an inoperable remote shutdown system function. PG&E is submitting this LER in accordance with 10 CFR 50.73(a)(2)(i)(B).

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

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

Sincerely,

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Barry S. Allen

dho6/6038/ 50595473
Enclosure
cc: Brian J. Benney, NRR Project Manager
Marc L. Dapas, NRC Region IV Administrator
Thomas R. Hipschman, NRC Senior Resident Inspector
INPO
Diablo Distribution

U.S. NUCLEAR REGULATORY COMMISSION (10-2010) LICENSEE EVENT REPORT (LER) (See reverse for required number of digits/characters for each block) 1. FACILITY NAME Diablo Canyon Power Plant, Unit 1 4. TITLE								SION A	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2013 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 Section (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocellects.resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection. 2. DOCKET NUMBER 3. PAGE 50-275 1							
F EN	1 ecnnical Specification 3.3.4 Not Met Due to Inoperable Remote Shutdown System Function															
J. EV MONTH	DAY	YEAR	YEAR	SEQUENTI. NUMBER	AL REV	MONTH	DAY	YEAR	FACI	ILITY NAME	LIIIES	INVOLV	DOCKET NUMBER			
11	19	2013	2013	- 008	- 00	01	16	2014	FACI					DOCKET	IUMBER	
10. POW	1 'ER LE' 100	VEL	$ \begin{array}{ c c c c c c c c c c c c c$				3)(i) 3)(ii) 4) i)(A) (ii)(A) (ii)(A) (i)(A) (i)(B)	50.73(a)(2)(i)(C) 50.73(a)(2)(vii) 50.73(a)(2)(ii)(A) 50.73(a)(2)(viii)(A) 50.73(a)(2)(ii)(B) 50.73(a)(2)(viii)(B) 50.73(a)(2)(iii) 50.73(a)(2)(viii)(B) 50.73(a)(2)(iii) 50.73(a)(2)(viii)(A) 50.73(a)(2)(iv)(A) 50.73(a)(2)(ix)(A) 50.73(a)(2)(v)(A) 50.73(a)(2)(x) 50.73(a)(2)(v)(B) 73.71(a)(4) 50.73(a)(2)(v)(C) OTHER 50.73(a)(2)(v)(D) Specify in Abstract b or in NRC Form 366,					(A) (B) (A) (Ct below (66A			
					12.	LICENS	EE CON	ITACT F	OR TH	IIS LER						
FACILITY N.	FACILITY NAME Dean Overland, Senior Engineer, Regulatory Services									TELEPHONE NUMBER (Include Area Code) (805) 545-6038						
13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT																
CAUSE SYSTEM		СОМ	COMPONENT MANU- FACTURER		REPO	REPORTABLE TO EPIX		NUSE	SYSTEM	COMPON	ENT	MANU- FACTURI	. RE	PORTABLE TO EPIX		
	14. SUPPLEMENTAL REPORT EXPECTED Image: Strain St									15. EXPECTED MONTH D/ SUBMISSION DATE			DAY	YEAR		
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)																

On November 19, 2013, Diablo Canyon Power Plant (DCPP) maintenance technicians were conducting relay testing on Emergency Diesel Generator (EDG) 1-3 Output Breaker 52HF7, and discovered the breaker could not be closed locally. Maintenance personnel found the US fuses in the 52HF7 cubicle in the OFF position. With the US fuses in the OFF position, operators would not be able to close EDG 1-3 output breaker at the breaker cubicle unless they opened the breaker cubicle and manually closed the breaker. This manual operation is not proceduralized, so successful performance of this task could not be guaranteed. Local breaker closure capability is required to satisfy Technical Specification 3.3.4 remote shutdown functionality.

DCPP determined a failure to maintain adequate configuration control of the US fuses in the 52HF7 cubicle during refueling outage maintenance activities allowed the fuses to be installed in the incorrect position. DCPP restored the US fuses to the correct position and checked the positions of the US fuses in the other EDG output breaker cubicles.

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

NRC FORM 366A (10-2010) LICENSEE EVENT REPORT (LER) ^{U.S. NUCLEAR REGULATORY COMMISSION} CONTINUATION SHEET										
1. FACILITY NAME	2. DOCKET	6	3. PAGE							
Diable Conver Dever Diant Unit 1	50 275	YEAR	SEQUENTIAL NUMBER	REV NO.	2	05	4			
Diablo Canyon Power Plant, Unit 1	50-275	2013	- 008 -	00	L		4			

NARRATIVE

I. Plant Conditions

At the time of the event, Unit 1 was in Mode 1 (Power Operation) at approximately 100 percent reactor [RCT] power with normal operating reactor coolant temperature and pressure.

II. Problem Description

A. Background

Diablo Canyon Power Plant (DCPP) Units 1 and 2 each have three emergency diesel generators (EDGs) [DG] that provide vital backup power to each unit's three electrical buses [BU] to mitigate the consequences of a design basis accident (DBA) if off-site power sources are unavailable. DCPP EDGs are designed to function so that a single failure of any EDG will not jeopardize the capability of the remaining EDGs to start and provide power to operate the systems required to mitigate any DBA condition.

The Remote Shutdown System provides the control room operator with sufficient instrumentation and controls to place and maintain the unit in a safe shutdown condition from a location other than the control room. This capability is necessary to protect against the possibility that the control room becomes inaccessible due to fire or other causes. To assure that a fire in the control room or cable spreading room will not degrade the capability of the control circuits at the hot shutdown panel from accomplishing their safety functions, transfer switches [HS] are provided at the 4 kV switchgear. When an EDG output breaker [BKR] transfer switch is taken to the LOCAL position, an independent control circuit energizes. This independent circuit has local control fuses [FU] known as US fuses. These fuses are normally in the ON position, but remain de-energized during normal plant operation. There is no indication of fuse failure or misposition until the transfer switch is placed in LOCAL and the circuit energizes.

B. Event Description

On November 19, 2013, maintenance technicians were conducting relay testing on EDG 1-3 Output Breaker 52HF7, and discovered the breaker could not be closed locally. Maintenance personnel found the US fuses in the 52HF7 cubicle in the OFF position. With the US fuses in the OFF position, operators would not be able to close EDG 1-3 output breaker at the breaker cubicle unless they opened the breaker cubicle and manually closed the breaker. This manual operation is not proceduralized, so successful performance of this task could not be guaranteed. Local breaker closure capability is required for remote shutdown functionality. This condition was entered into the corrective action program as Notification 50595324.

C. Status of Inoperable Structure, Systems, or Components That Contributed to the Event

None.

IC FORM 366A 0.2010) LICENSEE EVENT REPORT (LER) ^{U.S. NUCLEAR REGULATORY COMMISSION} CONTINUATION SHEET							
1. FACILITY NAME	2. DOCKET	6.	LER NUMBER		3. PAGE		
Diablo Canyon Power Plant, Unit 1	50-275	YEAR	SEQUENTIAL NUMBER	REV NO.	3 OF 4		
RRATIVE		2015	- 000 -				
D. Other Systems or Secondary Functions A	Affected						
None.							
E. Method of Discovery							
Maintenance technicians were conducting r breaker could not be closed locally.	elay testing on ED	G 1-3 Outp	ut Breaker 52	HF7, and	l discovered the		
F. Operator Actions							
None.							
G. Safety System Responses							
None.							
III. Cause of the Problem							
DCPP determined that a human error was the control of the US fuses in the 52HF7 cubicl allowed the fuses to be reinstalled in the inco- testing following maintenance activities wa	ne most probable ca e during Unit 1 Re correct position. Do s inadequate, in tha	uuse. A fail fueling Out CPP additic t it did not	lure to mainta age 17 mainta nally determi verify remote	in adequation enance accordined that shutdow	ate configuration ctivities most likely return to service yn functionality.		
IV. Assessment of Safety Consequences							
For the loss of local control power for EDG change in core damage frequency was 6.491 was 2.67E-08/year. DCPP determined that probability was 6.49E-07, and the increment that the risk significance to Unit 1 was very Output Breaker 52HF7, and only the local r	1-3 Output Breake E-07/year, and the for a maximum on tal large early relea low. This is expect ecovery of the brea	er 52HF7, D estimated cl e year expo use probabil eted, given t ker on a fai	DCPP determi hange in large sure period, the lity was 2.67E that normal co- ilure to close	ned that the early reliance of the incrementation of the increment	the estimated lease frequency nental core damage ese results indicate as still available to eted.		
V. Corrective Actions		ţ					
A. Immediate Corrective Actions							

DCPP restored the US fuses to the correct position and checked the positions of the US fuses in the other EDG output breaker cubicles.

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Diablo Canyon rower riant, Unit 1	50-275	2013 - 008 - 00								
B. Other Corrective Actions DCPP will revise maintenance procedure MP E-63.3C, "Maintenance of 4 and 12 kV Switchgear," to include a list of all fuses to be replaced, and their normal position, in a table that facilitates proper configuration control. DCPP will also revise procedure AD13.ID4, "Post Maintenance Testing," to include testing requirements for fuse maintenance activities that could impact Remote Shutdown functionality										
VI. Additional Information										

A. Failed Components

None.

B. Previous Similar Events

Diablo Canyon – On October 30, 2009, while returning to service 4 kV Bus E, operators noticed the white potential lights on Breaker 52HE14 were not lit. These lights come on when the breaker is racked in the cubicle. Further review found the UA fuses in the OFF position. These fuses are not normally removed and so were not covered in the rack in procedure. DCPP determined that electricians had inspected these fuses during maintenance, and documented that these fuses were found in the OFF position. The cause of the UA fuses in the OFF position was indeterminate.