



**Pacific Gas and  
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PG&E Letter DCL-13-091

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

10 CFR 50.4  
10 CFR 50.54  
10 CFR 50.71

Docket No. 50-275, OL-DPR-80  
Docket No. 50-323, OL-DPR-82  
Diablo Canyon Power Plant Units 1 and 2  
Updated Final Safety Analysis Report, Revision 21

Dear Commissioners and Staff:

Pursuant to 10 CFR 50.71(e), 10 CFR 50.54(a)(3) and 10 CFR 50.4(b)(6), Pacific Gas and Electric Company hereby submits the Diablo Canyon Power Plant (DCPP) "Final Safety Analysis Report Update" (UFSAR), Revision 21. DCPP UFSAR, Revision 21, represents the status of DCPP Units 1 and 2 through March 23, 2013. As a minimum, DCPP UFSAR, Revision 21, reflects: (1) changes made under the provisions of 10 CFR 50.59, which are identified in Enclosure 1; and (2) changes made as a result of license amendments, which are identified in Enclosure 2.

Enclosure 3 contains the DCPP UFSAR, Revision 21, on one compact disc (CD), labeled "Diablo Canyon Power Plant FSAR Update, Revision 21," dated September 2013. The contents are in Adobe Acrobat portable document format. A copy of this CD is being provided to the Regional Administrator, Region IV, the DCPP NRR Project Manager, and the DCPP NRC Senior Resident Inspector.

The CD contains the following file:

<u>File Name</u>	<u>File Size (Mb)</u>
01 DCPP UFSAR R21.pdf	39.8

There are no new or revised regulatory commitments as defined by Nuclear Energy Institute 99-04, "Guidelines for Managing NRC Commitment Changes," dated July 1999, in this submittal.

If you have any questions regarding this submittal, please contact Mr. Tom Baldwin at (805) 545-4720.

A053  
NRR



I declare under penalty of perjury that the foregoing is true and correct.

Executed on September 16, 2013.

Sincerely,

A handwritten signature in black ink that reads 'Barry S. Allen'.

Barry S. Allen  
*Site Vice President*

Enclosures

cc: Diablo Distribution  
cc:/enc. Thomas R. Hipschman, NRC Senior Resident Inspector  
Jennivine K. Rankin, NRR Project Manager  
Steven A. Reynolds, Acting NRC Region IV Administrator

**Changes Incorporated into the Diablo Canyon Power Plant  
Final Safety Analysis Report Update, Revision 21  
Resulting from 10 CFR 50.59 Evaluations**

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<b><u>Number</u></b> <sup>(1)</sup>	<b><u>Description</u></b>
2009-004	DDP <sup>(2)</sup> 1000000120: Revise Figure 5.3-1 for Reactor Coolant System Hot Leg, Cold Leg, and Average Reactor Coolant Loop Temperature (Unit 1 and Unit 2).
2010-009	DDP 1000000290 and 1000000291: Upgrade Safety Parameter Display System (SPDS). The SPDS was upgraded to improve reliability and security, and to resolve obsolescence issues (Unit 1 and Unit 2).
2010-025	DDP 1000000321: Auxiliary Building Control Board Upgrade-Phase 4B, Digital Upgrade. The upgrade integrates the temperature monitoring system at the auxiliary building control board into the new digital control system (Unit 1 and Unit 2).
2011-010	DDP 1000000237: Replace the Unit 1 Westinghouse 7100 Process Control System (PCS). The Unit 1 7100 PCS was replaced with a new programmable logic controller (PLC)-based system.
2011-014	Calculation 9000019736: Addition of Time Critical Operator Action (TCOA). Post Loss-of-Coolant design condition limits residual heat removal (RHR) pump time on recirculation flow without component cooling water cooling to RHR heat exchangers. This new design condition required the addition of a TCOA that was implemented in the emergency operating procedure EOP E-1 (Unit 1 and Unit 2).
2011-015	DDP 1000000390: Containment Polar Gantry Crane Modifications. Upgraded antiquated design with new controls, motors, brakes, gearboxes, and associated modifications to the electrical power supply and circuits (Unit 2) to improve reliability.
2012-006	DDP 1000024850: Relocate Intake Facility Gantry Crane Anchored Location (Unit Common). The "not-in-use" stored position for the intake gantry crane was moved to a location approximately 20 feet toward the south.
2012-007	DDP 1000024811: Containment Polar Gantry Crane Modifications. Upgraded antiquated crane design with new controls, motors, brakes, gearboxes, and associated modifications to the electrical power supply and circuits (Unit 2) to improve reliability.

- 2012-009 Class 1E Battery Qualification: The standard for performing the qualification for Class 1E replacement batteries was changed from IEEE 535-1979, "IEEE Standard for Qualification of Class 1E Lead Storage Batteries for Nuclear Power Generating Stations," to IEEE 535-1986 (Unit 1 and Unit 2).
- 2012-013 DDP 1000000501: Replace the Unit 2 Westinghouse 7100 PCS. The Unit 2 7100 PCS was replaced with a new PLC-based system.
- 2012-033 DDP 1000024853: Remove the Unit 1 Auxiliary Building Heating Coils and Support Equipment. Removed the heating coils and associated support equipment from the Unit 1 auxiliary building heating, ventilating, and air conditioning system.
- 2012-034 DDP 1000000191: Remove the Unit 2 Auxiliary Building Heating Coils and Support Equipment. Removed the heating coils and associated support equipment from the Unit 2 auxiliary building heating, ventilating, and air conditioning system.
- 2012-039 Use of SAP2000 Computer Program. Structural analysis program SAP2000 was used to supplement the GT STRUDL (Georgia Tech Structural Design Language) for seismic analysis of the containment annulus structure (Unit 2).

(1) 10 CFR 50.59 Licensing Basis Impact Evaluation Number

(2) DDP is the prefix for the SAP Design Change Package number (typical)

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<b><u>Unit 1 LA</u></b>	<b><u>Unit 2 LA</u></b>	<b><u>Description</u></b>
211	213	Revision to Technical Specification 3.8.1, "AC Sources – Operating," to Incorporate TSTF-163, Revision 2 (TAC Nos. ME5939 AND ME5940).
212	214	Revision to Technical Specification 3.7.1, "Main Steam Safety Valves (MSSVs)," and Final Safety Analysis Report Update (TAC Nos. ME5713 and ME5714).
213	215	Revision to Technical Specification 3.7.10, "Control Room Ventilation System (CRVS)" (Emergency Circumstances) (TAC Nos. MF0317 and MF0318).
214	216	Change to Final Safety Analysis Report Update to Allow Use of Beacon Core Monitoring and Operations Support System (TAC Nos. ME7803 and ME7804).

**Compact Disc, Diablo Canyon Power Plant**  
**Final Safety Analysis Report Update, Revision 21**



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**Final Safety Analysis Report Update, Revision 21**

