



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION IV
1600 EAST LAMAR BOULEVARD
ARLINGTON, TEXAS 76011-4511

May 11, 2023

Paula A. Gerfen
Senior Vice President, Generation
and Chief Nuclear Officer
Pacific Gas and Electric Company
P.O. Box 56
Mail Code 104/6
Avila Beach, CA 93424

SUBJECT: DIABLO CANYON POWER PLANT, UNITS 1 AND 2 – NRC INSPECTION
REPORT 05000275/2023010 AND 05000323/2023010

Dear Paula A. Gerfen:

On April 13, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Diablo Canyon Power Plant, Units 1 and 2 and discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

A handwritten signature in black ink that reads "Vincent Gaddy".

Signed by Gaddy, Vincent
on 05/11/23

Vincent G. Gaddy, Chief
Engineering Branch 1
Division of Operating Reactor Safety

Docket No. 05000275 and 05000323
License No. DPR-80 and DPR-82

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

DIABLO CANYON POWER PLANT, UNITS 1 AND 2 – NRC INSPECTION REPORT
 05000275/2023010 AND 05000323/2023010 DATED MAY 11, 2023.

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DOCUMENT NAME: DIABLO CANYON POWER PLANT, UNITS 1 AND 2 – NRC INSPECTION REPORT
 05000275/2023010 AND 05000323/2023010

Non-Public Designation Category: MD 3.4 Non-Public _____ (A.3 - A.7 or B.1)

ADAMS ACCESSION NUMBER: **ML23123A327**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Numbers: 05000275 and 05000323

License Numbers: DPR-80 and DPR-82

Report Numbers: 05000275/2023010 and 05000323/2023010

Enterprise Identifier: I-2023-010-0019

Licensee: Pacific Gas and Electric Company

Facility: Diablo Canyon Power Plant, Units 1 and 2

Location: Avila Beach, CA

Inspection Dates: March 27, 2023 to April 14, 2023

Inspectors: W. Cullum, Senior Reactor Inspector
D. Reinert, Senior Reactor Inspector
F. Thomas, Reactor Inspector

Approved By: Vincent G. Gaddy, Chief
Engineering Branch 1
Division of Operating Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a NRC inspection at Diablo Canyon Power Plant, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71111.21N.03 - Commercial Grade Dedication

Commercial Grade Dedication (section 03.01) (15 Samples)

The inspectors reviewed the implementation of the licensee's processes for dedicating commercial-grade items/services as basic components and/or for procuring safety-related structures, systems, and components for the following samples:

- (1) Material Code D956958 Pressure Switch - Plant Location DC-2-23-I-S-PS-5034 - Description - Containment Penetration Area GE/GE Exhaust Damper Pressure Switch
- (2) Material Code D956878 Motor-Operated Valve Long Life (MOVLL) Grease - Plant Location RCS-1-8000A - Description - Pressurizer PORV Block Motor-Operated Valve
- (3) Material Code D952926 O-ring - Plant Location DC-2-45-P-MP-MP66 - Description - Containment Emergency Personnel Hatch
- (4) Material Code D933757 Boot - Plant Location DC-1-21-M-MISC-IS2 - Description - Diesel Generator Combustion Air Intake Silencer 1-2
- (5) Material Code D967224 Valve 1-1/2" Gate 800# CS SW - Plant Location DC-2-04-P-V-MS-2-5399 - Description FCV-41 (MSIV) Inspection Port Test Valve
- (6) Material Code D951344 Refrigerant R-22 - Plant Location DC-1-23-M-BC-CP-36 - Description - Refrigerant for Control Room Air Conditioner CP-36
- (7) Material Code D944750 Actuator Diaphragm - Plant Location - DC-2-08-P-VOA-CVCS-2-8141C - Description - RCP 2-3 Seal Remote Outlet Isolation Valve
- (8) Material Code D955449 Compressor - Plant Location - DC-1-23-M-BC-CP-36 - Description - Control Room Air Conditioner Compressor CP-36
- (9) Material Code D969273 Radiator Core - Plant Location - DC-1/2-21-M-HX-JWR - Description - Diesel Generator Jacket Water Cooling Radiator
- (10) Material Code D967399 Relief Valve Parts Kit - Plant Location - DC-1(2)-P-VR-DEG-1(2)-RV-68, 69, 70 - Description - Diesel Generator Lube Oil Pump Relief Valve
- (11) Material Code D956431 Sleeving 1" Silflex - Plant Location - DC-1-09-I-SV-224 - Description - Accumulator Test Wiring (In Containment)
- (12) Material Code D943598 Relay Multipole 5NO 120VAC 2NC 7P - Plant Location - DC-1-23-E-R-RPAM2-RIS59X - Description - New Fuel Pool Rad Monitor Aux Relay
- (13) Material Code D935255 Motor 400HP 1200RPM 588SU Frame - Plant Location - DC-2-14-E-MTR-CCWP1 - Description - CCW PP 2-1 Motor

- (14) Material Code D963390 Contact Kit 60A 600V 3P F/9560 Starter - Plant Location DC-1-23-E-MTR-CP-36 - Description - CP-36 Control RM Air Conditioner Compressor (North)
- (15) Material Code D965229 Diode 600V 300A - Plant Location DC-2-21-E-GN-DEG3 - Description - Diesel Engine Generator 2-3

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On April 13, 2023, the inspectors presented the NRC inspection results to Paula A. Gerfen and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.21N.03	Corrective Action Documents	50935656, 50852197, 50854871, 50855151, 51039343, 50882125, 50882140, 50882498, 50883028, 50895624, 50936528, 50936757, 50937717, 50938548, 50938551, 50938554, 50938555, 50938830, 51045394, 51047065, 51048581, 51056200, 51069446, 51092878, 51102209, 51103947, 51148834, 51151119, 51159825, 51175385, 51041761		
	Corrective Action	51187228,		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Documents Resulting from Inspection	51185717, 51185766, 51185983, 51186254, 51186932, 51186951, 51187016, 51187092, 51187135, 51185710, 51185965, 51186289, 51186556, 51187260		
	Drawings	050029, Sheet 120A	Misc. [Miscellaneous] Notes (Continued From Sh. 120)	42
		050029, Sheet 70	Notes, Symbols & Typical Details for Raceways & Wire	61
		433130, Sheet 1, Page 0	Electrical Single Line Diagram, 480V And 120V AC System, Control Room Pressurization System	17
		445093, Sheet 1, Page 0	Electrical Schematic Diagram, Control Room Ventilation System CR-35, CR-36, CP-35, CP-36	8
		496279, Sheet 1, Page 0	Electrical Schematic Diagram 4160V Diesel Generator Control No. 23	9
		6001170, Sheet 8, Page 1	I & C Diagram of Connections, Low Level Detector with Local Indicator	8
		663082, Sheet 54F, Page 1	Electrical Schematic and Interconnection Diagram Series Boost Exciter Voltage Regulator and Associated Control Functions for SED 23	2
		663082, Sheet 54F, Page 1	Electrical Schematic and Interconnection Diagram Series Boost Exciter Voltage Regulator and Associated Control Functions for SED 23	1
		663213, Sheet 22, Page 1	Mechanical Comp [Component] Cooling Water Pump Motor Outline	10
	Miscellaneous	3501133886	Purchase Order Core Radiator	0

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		DC-663239-41	Composite Operation Manual for Trance Co. Hermetic Reciprocating Compressors	09/24/1990
		RPE 8000001334	Control Room Air Conditioning Compressor and Parts	5
		RPE 8000001743	DCI, DEG Sleeve Between Air Intake Silencer and Turbocharger, System 21	2
		RPE 8000003163	Material Substitution for Masoneilan Actuator Diaphragms for Actuators without Backup Air	0
		RPE 8000004614	Specialty Gas	1
		RPE 8000005086	Replace DEG [Diesel Engine Generator] Rectifier Diodes	0
		RPE 8000005258	U1/U2 Control Room HVAC CP Contactor Replacement	0
		RPE C-0001	Containment Hatch O-Rings	3
		RPE E-0012	Motor, 400 HP, 4 KV, 1200 RPM, Frame 588 SU	1
		RPE E-0016	Resistors	2
		RPE E-5000	Varflex Silflex Sleeving	0
		RPE E-6930	Cutler Hammer Powered Relays	3
		RPE J-7828	Dwyer Instruments Air Flow Pressure Switch (Model 1638)	1
		RPE M-022	Diesel Generator Lube Oil Pump	3
		RPE M-09005	Grease for Safety Related Limitorque Actuators	0
		RPE P-09372	Flowserve - Design Class 1 - 2" and Smaller Valves per "Small VLV.ADV" Design Specification	0
		Procedures	AD9	Procurement Control
	AD9.ID1		Procurement of Items and Related Services	13
	AD9.ID10		Suspected Vendor Misrepresentation	1
	AD9.ID11		Supplier Evaluation Process	11
	AD9.ID2		Procurement of Services	20
	AD9.ID4		Establishing Procurement Technical and Quality Requirements	17
	AD9.ID6		Evaluation, Selection, and Control of Suppliers of Items, and Services	7
	AD9.ID7		Receipt Inspection and Acceptance Testing	10
	AD9.NQ1	Qualified Suppliers List and Supplier QA Requirements	14	
CF3.ID13	Replacement Part Evaluation and CITE	32		
CF5.ID1	Receipt of Materials	14		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		OM4.NQ7	Quality Verification External Auditing	5A
		OM7.ID1	Problem Identification and Resolution	57
		QCP 10.1	Receipt Inspection Program	17
		QCP 10.2	Inspection Activities	23
		QCP 10.20	Quality Control Laboratory	4
		QCP 10.22	Supplemental Verification Activities at Receipt	1A
		STP M-21-RTS.1	Return Diesel Engine to Service Following Outage Maintenance	16
	Work Orders	60096546, 60090735, 60098039, 60100031, 60100371, 64011577, 64095322, 64132893, 64140120, 64186067, 60091049, 68048766, 68052082, 60143786		