



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

March 18, 2021

Mr. James M. Welsch  
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 EXAMINATION  
REPORT 05000275/2021301 AND 05000323/2021301

Dear Mr. Welsch:

On March 1, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an initial operator license examination at your Diablo Canyon Power Plant, Units 1 and 2. The enclosed report documents the examination results and licensing decisions. The preliminary examination results were discussed on February 3, 2021, with Ms. P. Gerfen, Site Vice President, and other members of your staff. A telephonic exit meeting was conducted on March 1, 2021, with Mr. A. Kadir, Exam Supervisor, who was provided the NRC licensing decisions.

The examination included the evaluation of fifteen applicants for reactor operator licenses, four applicants for instant senior reactor operator licenses and one applicant for an upgrade senior reactor operator license. The license examiners determined that all applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued. There were no post-examination comments submitted by your staff. The enclosure contains details of this report.

No findings were identified during this examination.

J. Welsch

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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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

A handwritten signature in cursive script that reads "John Kirkland for".

Gregory E. Werner, Chief  
Operations Branch  
Division of Reactor Safety

Docket Nos. 05000275 and 05000323  
License Nos. DPR-80 and DPR-82

Enclosure:  
Examination Report 05000275/2021301, and 05000323/2021301  
w/attachment: Supplemental Information

cc w/enclosure: Electronic Distribution to Diablo Canyon Power Plant

DIABLO CANYON POWER PLANT, UNITS 1 AND 2 - NRC EXAMINATION REPORT  
 05000275/2021301; 05000323/2021301 – DATE- MARCH 18, 2021

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Electronic Distribution for Diablo Canyon Power Plant

ADAMS ACCESSION NUMBER: **ML21076A614**

SUNSI Review: ADAMS:  Non-Publicly Available  Non-Sensitive Keyword:  
 By: KDC1  Yes  No  Publicly Available  Sensitive NRC-002

OFFICE	SOE:DRS/OB	SOE:DRS/OB	EPI:DRS/OB	SOE:DRS/OB	SOE:DRS/OB	OE:DRS/OB
NAME	TFarina	COsterholtz	SHedger	JDeMarshall	JKirkland	MHayes
SIGNATURE	/RA/	/RA/	/RA/	/RA/	/RA/	/RA/
DATE	3/16/2021	3/16/2021	3/17/2021	3/16/2021	3/16/2021	3/16/2021
OFFICE	SOE:DRS/OB	C:DRS/OB	C:DRP/A	C:DRS/OB		
NAME	KClayton	GWerner	JJosey	GWerner		
SIGNATURE	/RA/	JCK for	/RA/	JCK for		
DATE	3/16/2021	3/17/2021	3/17/2021	3/18/2021		

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 05000275, 05000323

License Numbers: DPR-80, DPR-82

Report Numbers: 05000275/2021301, 05000323/2021301

Enterprise Identifier: L-2020-OLL-0015

Licensee: Pacific Gas and Electric Company

Facility: Diablo Canyon Power Plant, Units 1 and 2

Location: Avila Beach, California

Inspection Dates: January 25, 2021, to March 1, 2021

Inspectors: K. Clayton, Senior Operations Engineer, Chief Examiner  
J. Kirkland, Senior Operations Engineer  
C. Osterholtz, Senior Operations Engineer  
T. Farina, Senior Operations Engineer  
J. DeMarshall, Senior Operations Engineer  
M. Hayes, Operations Engineer  
S. Hedger, Emergency Preparedness Inspector

Approved By: Gregory E. Werner  
Chief, Operations Branch  
Division of Reactor Safety

Enclosure

## SUMMARY

ER 05000275/2021301 and 05000323/2021301, March 18, 2021, Diablo Canyon Power Plant, Units 1 and 2, Initial Operator Licensing Examination Report

The NRC examiners evaluated the competency of fifteen applicants for reactor operator licenses, four applicants for instant senior reactor operator licenses, and one applicant for an upgrade senior reactor operator license at Diablo Canyon Power Plant, Units 1 and 2.

The licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11. The written examination was administered by the licensee on February 12, 2021. The NRC examiners administered the operating tests from January 25 – February 3, 2021.

The NRC examiners determined that all applicants satisfied the requirements of 10 CFR Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

None.

B. Licensee-Identified Violations

None.

## REPORT DETAILS

### OTHER ACTIVITIES – INITIAL LICENSE EXAMINATION

#### .1 License Applications

##### a. Scope

The NRC examiners reviewed all license applications submitted to ensure each applicant satisfied relevant license eligibility requirements. The NRC examiners also audited four of the license applications in detail to confirm that they accurately reflected the subject applicant's qualifications. This audit focused on the applicants' experience and on-the-job training, including control manipulations that provided significant reactivity changes.

##### b. Findings

No findings were identified.

#### .2 Examination Development

##### a. Scope

The NRC examiners reviewed integrated examination outlines and draft examinations submitted by the licensee against the requirements of NUREG-1021. The NRC examiners conducted an onsite validation of the operating tests.

##### b. Findings

The NRC examiners provided outline, draft examination and post-validation comments to the licensee. The licensee satisfactorily completed comment resolution prior to examination administration.

The NRC examiners determined the written examinations and operating tests initially submitted by the licensee were within the range of acceptability expected for a proposed examination.

.3 Operator Knowledge and Performance

a. Scope

On February 12, 2021, the licensee proctored the administration of the written examinations to all twenty applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on February 22, 2021.

The NRC examination team administered the various portions of the operating tests to all applicants on January 25 – February 3, 2021.

b. Findings

No findings were identified.

All applicants passed the written examination and all parts of the operating tests. The final written examinations and post-examination analysis may be accessed in the ADAMS system under the accession numbers noted in the attachment. There were no post-examination comments as indicated in the licensee submittal.

The examination team noted no generic weaknesses associated with applicant performance on the operating tests. The licensee identified four generic weaknesses associated with applicant performance on the written examinations:

1. Pressurizer Level Post-Accident Monitoring (PAM) instruments – 12 of 20 missed Question 3
2. Loss of battery charger versus loss of battery bus (indications) – 11 of 20 missed Question 23
3. Notification times for a fire in containment – 3 of 5 missed Question 83
4. Who approves troubleshooting activities – 3 of 5 missed Question 97

These deficiencies were captured in the licensee's corrective action program as Notification 51108054. Copies of all individual examination reports were sent to the facility training manager for evaluation and determination of appropriate remedial training.

.4 Simulation Facility Performance

a. Scope

The NRC examiners observed simulator performance regarding plant fidelity during examination validation and administration.

b. Findings

No findings were identified.

.5 Examination Security

a. Scope

The NRC examiners reviewed examination security for examination development during both the onsite preparation week and examination administration week for compliance with 10 CFR 55.49 and NUREG-1021. Plans for examination security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings were identified.

**EXIT MEETINGS AND DEBRIEFS**

Exit Meeting Summary

The chief examiner presented the preliminary examination results to Ms. P. Gerfen, Site Vice President, and other members of the staff on February 3, 2021. A telephonic exit was conducted on March 1, 2021, between Mr. K. Clayton, chief examiner, and A. Kadir, Exam Supervisor. The licensee did not identify any information or materials used during the examination as proprietary.



## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### **Licensee Personnel**

P. Gerfen, Site Vice President  
J. Rogers, Operation Training Manager  
A. Kadir, Exam Supervisor  
R. Fortier, Examination Development Lead  
C. Mehigan, Examination Operations Representative  
L. Toribio, Examination Developer

#### **NRC Personnel**

D. Krause, Senior Resident Inspector  
A. Athar, Resident Inspector

### **ADAMS DOCUMENTS REFERENCED**

Accession No. ML21075A088 - FINAL WRITTEN EXAMS (delayed released until 8/12/2023)  
Accession No. ML21075A087 - FINAL OPERATING TEST (delayed released until 8/12/2023)  
Accession No. ML21075A080 - POST-EXAMINATION ANALYSIS