



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

July 24, 2018

Mr. James M. Welsch
Vice President, Nuclear 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 – NRC INSPECTION REPORT
05000275/2018002 AND 05000323/2018002

Dear Mr. Welsch:

On June 30, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Diablo Canyon Power Plant, Units 1 and 2. On July 9, 2018, the NRC inspectors discussed the results of this inspection with Ms. P. Gerfen, Senior Director Plant Manager, and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any findings or violations of more than minor significance.

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,

/RA/

Mark S. Haire, Chief
Project Branch A
Division of Reactor Projects

Docket Nos. 50-275 and 50-323
License Nos. DPR-80 and DPR-82

Enclosure:

Inspection Report 05000275/2018002
and 05000323/2018002 w/ Attachment
1. Documents Reviewed
2. RFI for Resident Inspection – 2nd Quarter

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

Docket Numbers: 05000275 and 05000323

License Numbers: DPR-80 and DPR-82

Report Numbers: 05000275/2018002 and 05000323/2018002

Enterprise Identifier: I-2018-002-0001

Licensee: Pacific Gas and Electric Company

Facility: Diablo Canyon Power Plant, Units 1 and 2

Location: Avila Beach, California

Inspection Dates: April 1, 2018 to June 30, 2018

Inspectors: C. Newport, Senior Resident Inspector
J. Reynoso, Resident Inspector
R. Alexander, Senior Project Engineer
G. Kolcum, Senior Resident Inspector – Columbia Generating Station

Approved By: Mark S. Haire, Chief
Project Branch A
Division of Reactor Projects

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a baseline 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 during the inspection.

PLANT STATUS

Units 1 and 2 began the inspection period at full power.

On April 9, 2018, Unit 1 reduced power to 50 percent to clean water boxes and condensers. Unit 1 returned to full power on April 15, 2018.

On May 30, 2018, Unit 1 reduced power to 50 percent to troubleshoot a faulty alarm circuit on main feedwater pump 1-2. Unit 1 returned to full power on May 31, 2018.

Units 1 and 2 operated at full power for the remainder of the inspection period.

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 performed plant status activities described in IMC 2515 Appendix D, "Plant Status," and conducted routine reviews using IP 71152, "Problem Identification and Resolution." 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

71111.01 - Adverse Weather Protection

Summer Readiness (1 Sample)

The inspectors evaluated summer readiness of offsite and alternate alternating current power systems.

Impending Severe Weather (1 Sample)

The inspectors evaluated readiness for impending adverse weather conditions due to increased ocean swells on May 19, 2018.

71111.04 - Equipment Alignment

Partial Walkdown (4 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Unit 2, turbine driven auxiliary feedwater pump 2-1 on April 11, 2018
- (2) Unit 2, centrifugal charging pump 2-1 on April 23, 2018
- (3) Unit 1, turbine driven auxiliary feedwater pump 1-1 on April 24, 2018

(4) Unit 1, auxiliary saltwater pump 1-1 on June 25, 2018

71111.05AQ - Fire Protection Annual/Quarterly

Quarterly Inspection (5 Samples)

The inspectors evaluated fire protection program implementation in the following selected areas:

- (1) Unit 1, turbine building 4 kV rooms on April 5, 2018
- (2) Units 1 and 2, turbine building on the 85 foot elevation on April 5-6, 2018
- (3) Units 1 and 2, auxiliary building on the 54 and 64 foot elevations on April 10, 2018
- (4) Units 1 and 2, H block on the 140 foot elevation on May 8, 2018
- (5) Unit 1, H block on the 115 foot elevation on June 13, 2018

71111.11 - Licensed Operator Requalification Program and Licensed Operator Performance

Operator Requalification (1 Sample)

The inspectors observed and evaluated a crew of licensed operators in the plant's simulator during an in-progress annual requalification operating test on June 12, 2018.

Operator Performance (1 Sample)

The inspectors observed and evaluated operator performance during the following activities:

- (1) Units 1 and 2, impending weather due to ocean swell conditions on May 19, 2018
- (2) Units 1 and 2, monitoring of steam generator water level trends from oscillating feedwater regulating valves on June 20, 2018
- (3) Unit 1, preparations for a Technical Specification 3.0.3 entry and potential power ramp on June 28, 2018

71111.12 - Maintenance Effectiveness

Routine Maintenance Effectiveness (2 Samples)

The inspectors evaluated the effectiveness of routine maintenance activities associated with the following equipment and/or safety significant functions:

- (1) Units 1 and 2, reactor protection system
- (2) Units 1 and 2, anticipated transient without scram mitigation system actuation circuitry maintenance

71111.13 - Maintenance Risk Assessments and Emergent Work Control (3 Samples)

The inspectors evaluated the risk assessments for the following planned and emergent work activities:

- (1) Unit 2, safety-related 4 kV bus and startup feeder circuit breaker loose lamp connection on April 10-11, 2018
- (2) Unit 1, turbine driven auxiliary feedwater pump 1-1 out of service for maintenance on April 24, 2018
- (3) Units 1 and 2, raw water storage reservoir out of service for maintenance on May 8, 2018

71111.15 - Operability Determinations and Functionality Assessments (7 Samples)

The inspectors evaluated the following operability determinations and functionality assessments:

- (1) Unit 2, fire sprinkler failure and actuation, 115 foot elevation containment penetration area, Notification 50973907, on April 2, 2018
- (2) Unit 1, vital battery 1-3 storage rack missing hardware, Notification 50975547, on April 12, 2018
- (3) Unit 2, pressurizer heaters not maintaining pressure, Notification 50973588, on April 19, 2018
- (4) Unit 1, control room ventilation damper failure, Notification 50977029, on April 23, 2018
- (5) Unit 1, 480 volt ductwork seismic gap, Notification 50870358, on May 14, 2018
- (6) Unit 2, main steam safety RV-225 acoustic-related vibration, Notification 50975300, on May 22, 2018
- (7) Units 1 and 2, pressure-operated relief valve solenoid, valve environmental qualification configuration discrepancy, Notification 50985298, on June 21, 2018

71111.19 - Post Maintenance Testing (6 Samples)

The inspectors evaluated the following post maintenance tests:

- (1) Unit 2, auxiliary building ventilation system supply fan S-31 and damper repairs, Work Order 64162387, on March 23, 2018
- (2) Unit 1, centrifugal charging pump 1-1 oil change, Work Order 64164422, on April 3, 2018
- (3) Unit 2, auxiliary feedwater pump 1-3, discharge header level control valve LCV-113 position circuit replacement, Work Order 60107341, on April 4-5, 2018
- (4) Unit 2, control room ventilation compressor motor CR-37 replacement, Work Order 64168868, on April 10-12, 2018

- (5) Unit 2, containment spray pump 2-2, anti-rotation pin replacement, Work Order 64164327, on April 18, 2018
- (6) Unit 1, auxiliary feedwater pump 1-2, pump and valve maintenance, Work Order 64188501, on May 15, 2018

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Routine (3 Samples)

- (1) Unit 1, exercising residual heat removal pump suction valve 8700B, per procedure STP V-3M4B, on April 17, 2018
- (2) Unit 1, full length control rod testing, per procedure STP R-1A, on May 10, 2018
- (3) Unit 2, solid-state protection system train B actuation logic test, per procedure STP I-38-B.1, on May 23, 2018

In-service (1 Samples)

- (1) Unit 2, comprehensive pump test of component cooling water pump 2-3, per procedure STP P-CCW-A23, on May 17, 2018

71114.06 - Drill Evaluation

Drill/Training Evolution (1 Sample)

The inspectors evaluated a simulator-based licensed operator requalification training scenario that included implementation of the licensee's emergency plan on June 20, 2018.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification (6 Samples)

The inspectors verified licensee performance indicators submittals listed below:

- (1) MS05: Units 1 and 2, Safety System Functional Failures (SSFFs) [04/01/2017–03/31/2018]
- (2) MS06: Units 1 and 2, Emergency AC Power Systems [04/01/2017–03/31/2018]
- (3) MS07: Units 1 and 2, High Pressure Injection Systems [04/01/2017–03/31/2018]

71152 - Problem Identification and Resolution

Semiannual Trend Review (1 Sample)

The inspectors reviewed the licensee's corrective action program for trends that might be indicative of a more significant safety issue.

Annual Follow-up of Selected Issues (2 Samples)

The inspectors reviewed the licensee’s implementation of its corrective action program related to the following issues:

- (1) Notification 50972378, evaluation and corrective actions related to a change to the Technical Specification (TS) Bases for TS 3.3.1, “Reactor Trip System (RTS) Instrumentation,” in October 2014.
- (2) Operator work around program on May 8, 2018

INSPECTION RESULTS

Assessment	71152 – Problem Identification and Resolution
As part of the semi-annual trend review, the inspectors reviewed the licensee’s implementation of its corrective action program related to operating experience, self-assessments, and audits into human performance trends. Based on the samples reviewed, the team determined that PG&E’s performance in each of these areas adequately supported nuclear safety.	

EXIT MEETINGS AND DEBRIEFS

On July 8, 2018, the inspectors presented the quarterly resident inspector inspection results to Ms. P. Gerfen, Senior Director Plant Manager, and other members of the licensee staff. The inspectors verified no proprietary information was retained or documented in this report.

DOCUMENTS REVIEWED

71111.01: Adverse Weather Protection

Notifications

50980891 50980602 50980794 50981060

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
CPM-16	Severe Weather	14
MA1.ID23	Intake Preparedness for High Debris Loading Events	3
OM1.ID4	Interface Requirements for Transmission & Distribution Facilities at DCPD	8A
OP J-2:VIII	Guidelines for Reliable Transmission Service for DCPD	31
OP O-23	System Dispatch Instruction	12
OP O-28	Operations Intake Response to Storms or Biofouling	22
OP1.ID0	Intake Management for Storms and Biofouling	1A

Drawing

<u>Number</u>	<u>Description</u>	<u>Revision</u>
502110, Sh. 1	Single Line Diagram 500/230/25/12/4.16 kV Systems	19

Other

<u>Number</u>	<u>Description</u>	<u>Revision</u>
	PG&E 2017 Electric Transmission Reliability Assessment Study Report	
DCM No. S-61B	500-kV and 230-kV Systems	18

71111.04: Equipment Alignment

Notifications

50977362 50922408 50966007 64186188
60102998

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
OP B-1A:XI	CVCS – Charging Pumps – Clearing for Maintenance and Returning to Service	19
OP D-1:II	Auxiliary Feedwater System – Alignment Verification for Plant Startup	31
OP E-5	Auxiliary Saltwater Make Available	36
OP O-36	Protected Equipment Postings	17
STP ASW P-ASW-11	Comprehensive Test of Auxiliary Saltwater Pump	13
STP V-2A2	Unit 1 and 2 Cross-Tie Valve FCV-601	7

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision</u>
107703	Auxiliary Feedwater System	50
107709	Charging System	51
107709	2-1 Charging Pump	88

71111.05: Fire Protection

Notifications

50975289	50953686	50950905	50950904
50950908	50965010	50979693	

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
MA1.ID9	Compressed Gas Cylinder Control	5
OM8.ID1	Fire Loss Prevention	29
OM8.ID4	Control of Flammable and Combustible Materials	28
STP M-80B	Indoor Fire Hose Operability Testing	23

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision</u>
RA-11	Fire Drawing: H Block Elevation 140	11

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision</u>
RA-9/10	Fire Drawing: Radiological Control Area & H Block Elev 115'	10
TB-3/14	Fire Drawing: Unit 1 and 2 Turbine Building Area 85 foot elevation	6
TB-8	Fire Drawing: Unit 1 Turbine Building Area 119 foot elevation	6

Other

<u>Number</u>	<u>Description</u>	<u>Revision / Date</u>
M-824	Controlled Combustible Loading Calculation	11/14/2017
RA-1	Pre-Fire Plan: Radiological Control Area (RCA) 54' & 64' Unit 1 and 2	8

71111.11: Licensed Operator Requalification Program and Licensed Operator Performance

Notifications

50985953 50986728

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
JSIM-507	Evaluator Skills	0
OM7.ID13	Technical Evaluation	7
OP1.DC10	Conduct of Operations	47
TQ2.DC15	Licensed Operator Annual/Biennial Exam Development and Administration	9
TQ2.DC3	Licensed Operator Continuing Training Program	29

71111.12: Maintenance Effectiveness

Notifications

50970936	50877169	50945797	50852077
50851453	50916880	50852076	50365571
50482201	50482454	50554954	50487370
50850974	50955264	50955157	50867633

Work Orders

60090220	60090199	60095060	60090300
60078509	60105081	64192562	64188915
64066510	50609690		

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
CF3.ID9	Design Change Notice	0
MA1.ID17	Maintenance Rule Monitoring Program	31
MP I-9.2-1	AMSAC Preventative Maintenance	5
STP I-92A	AMSAC Functional Testing	9

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision / Date</u>
DCL-87-258	Plant Specific AMSAC Design	10/30/1987
DCP-M-39065	AMSAC Functional Testing and Design	2

Other

<u>Number</u>	<u>Description</u>	<u>Revision</u>
DCM S-38A	Plant Protection System	11A

71111.13: Maintenance Risk Assessments and Emergent Work Control

Notifications

50975328	50801872	50634503
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Work Orders

60110192	64170209
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Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
AD7.DC6	On-Line Maintenance Risk Management	25
AD7.ID14	Assessment of Integrated Risk	16
OP F-3:V	Raw Water Reservoir Remove From Service	18

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
OP O-40	Indicating Lamp Replacement	0
STP I-1C	Routine Weekly Checks Required By Licensee	118

71111.15: Operability Determinations and Functionality Assessments

Notifications

50975547	50973907	50973909	50871971
50973908	50870359	50870390	50979714
50869814	50869818	50979713	50979295
50977029	50976710	50975777	50976669
50976689	50975776	50925760	50975300
50442196	50973588	50976396	50985298
50985639			

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
AD7.ID18	Plant Health Prioritization Committee	1
AD7.ID2	Daily Notification Review	30
CF3, ID3	Environmental Qualification Program	9A
MA1.DC58	Troubleshooting Evidence Preservation and Forensic Analysis	1
MA1.ID26	Troubleshooting	4
OM7.ID12	Operability Determination	37
OM7.ID7	Emerging Issue and Event Investigation	19
OM8.ID2	Fire System Impairment	21
OP H-5:III	Control Room Ventilation System – Shutdown and Clearing	21
STP M-6A	Routine Surveillance Testing of Control Room Ventilation System	57

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision</u>
106718	Units 1 & 2 Firewater Inside Auxiliary Building	127

Drawings

<u>Number</u>	<u>Description</u>	<u>Revision</u>
106723	Control Room HVAC, Sheet 16	98
107707	Reactor Coolant System, Sheet 3	40

Other

<u>Number</u>	<u>Description</u>	<u>Revision / Date</u>
DCM S-23F	Control Room Ventilation System	17
Calculation EQP- 230.1	Component Supports – Battery Racks	12/22/1989
ECG 18.0	Fire Protection	10

71111.19: Post-Maintenance Testing

Notifications

50974516	50974176	50954699	50980381
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Work Orders

60107341	64186313	64168868	60106784
64164422	60110022	64164327	64180694
64180693	64169242	64162387	

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
MP E-53.1A	Generic 115 and 480 Volt Motor Swap	6
MP E-53.2	Split End Bell, 4000 Volt Motor Overhaul	20
MP E-53.7	Maintenance of ITT valves	12A
MP E-8.1	Centrifugal Charging Pump Motor Overhaul	8
MP M-23-FAN.4	Preventative Maintenance of Ventilation Fans	8
OP H-5:IV	Control Room Ventilation System Mode Changes	13
STP P-AFW-12	Auxiliary Feedwater System Pump and Valve Routine Testing	18
STP V-2U4D	Exercising SG 1-4 AFW Supply Valve	14
STP V-33P6B	Exercising Valve LCV-113 Auxiliary Feedwater	28
U1 MP 1-3-L113	Steam Generator 1-4 AFW Supply LCV113 Calibration	25

Drawing

<u>Number</u>	<u>Description</u>	<u>Revision</u>
107723, Sheet 16	Unit 2 Control Room HVAC (South)	105

Other

<u>Number</u>	<u>Description</u>	<u>Date</u>
	S-37 Control Room Ventilation Maintenance Testing (Test Plan)	4/12/2018

71111.22: Surveillance Testing

Notification

50979337

Work Orders

64187021	64191813	64173256	64193005
64152001	64152023		

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
STP I-38-B.1	SSPS Train B Actuation Logic Test in Modes 1,2,3, or 4	11
STP I-38-B.2	SSPS Train B SI Reset Timer and Slave Relay K602 Test in Modes 1,2,3, or 4	12A
STP P-CCW-A23	Comprehensive Pump Test of Component Cooling Water Pump 2-3	7
STP R-1A	Exercising Full Length Control Rods	24
STP V-2D2B	Exercising and Position Verification of Valve 8700B	3A
STP V-3M4B	Exercising RHR Pump 2 Suction Valve 8700B	7A

Drawing

<u>Number</u>	<u>Description</u>	<u>Revision</u>
107714	Component Cooling Water Pumps	65

Other

<u>Number</u>	<u>Description</u>	<u>Revision</u>
	ASME OM Code-2004	2004
	ASME Code Case OMN-16	

71114.06: Drill Evaluation

Notification

50986520

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision / Date</u>
ES1213-B	Diablo Canyon Power Plant Emergency Planning Scenario Synopsis/Event Description – LOCA	6/12/2018
TQ2.DC3	Licensed Operator Training Program	29

71151: Performance Indicator Verification

Notifications

50934650 50934243

Other

<u>Number</u>	<u>Description</u>	<u>Date</u>
CD-Entry 4.0	Unit 1/2, Consolidated Data Log MS06 / MS07	03/31/2018

71152: Problem Identification and Resolution

Notifications

50972378	50609587	50929308	50955568
50978266	50679868	50973233	50952177
50960693	50978531	50925760	50974927
50952407	50978266	50978531	50960156
50394106	50968831	50971629	50978356
50974968	50958921		

Procedures

<u>Number</u>	<u>Title</u>	<u>Revision</u>
AR PK03-06	NIS Detector Volt Loss	3
OP AP-5	Malfunction of Eagle 21 Protection or Control Channel	6
OP1.DC40	Operations Equipment Deficiency and Adverse Condition Monitoring	10

Other

<u>Number</u>	<u>Description</u>	<u>Date</u>
LBIE 08-010	TS B3.3.1 (5), Source Range Neutron Flux	10/14/2014

**Request for Information for
Resident Inspection at
Diablo Canyon Power Plant -
2nd Quarter 2018**

Please provide the following documents (use “date range of document request” unless otherwise noted):

1. Summary listing of all root and apparent cause evaluations performed on this system
2. Summary listing of all condition reports written on this system, sorted by category type
3. Summary listing of OE screening and dispositioning reviews
4. Summary listing of all corrective maintenance work orders, with description of work, performed on this system
5. List of all work orders, with description of work, planned within the next 6 months (from start of applicable quarter).
6. List of maintenance rule functional failure assessments – regardless of the result – performed on this system for previous two years. Include condition report numbers for each item on the list
7. Summary list of system design calculations
8. Summary list of fire impairments associated with this system
9. List of completed engineering changes and planned engineering changes (within the next six months of start of applicable quarter) associated with this system.
10. Schedule of system surveillance and work activities for the planned quarter of interest.
11. Summary listing of temporary and permanent modifications associated with the system completed within the last two years
12. Summary listing of 50.59 screenings and evaluations related to the system
13. Maintenance rule scoping and basis documents
14. Maintenance rule expert panel meeting minutes for meetings related to system
15. Current UA hours and UR data tracking documents (system health report)

2nd Quarter 2018

System: Reactor Protection System (Eagle 21)

IMS Upload Date Requested By: March 25, 2018

Date Range of Document Request: April 1, 2016 - Current

DIABLO CANYON POWER PLANT – NRC INSPECTION REPORT 05000275/2018002
AND 05000323/2018002 DATED JULY 24, 2018

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Electronic Distribution for Diablo Canyon Power Plant

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