



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

February 20, 2019

Mr. James M. Welsch
Vice President Nuclear Generation
and Chief Nuclear Officer
Pacific Gas and Electric Company
Diablo Canyon Power Plant
P.O. Box 56, Mail Code 104/6
Avila Beach, CA 93424

SUBJECT: DIABLO CANYON POWER PLANT – NOTIFICATION OF INSPECTION (NRC
INSPECTION REPORT 05000275/2019002, 05000323/2019002 AND
REQUEST FOR INFORMATION

Dear Mr. Welsch:

From April 8 to April 12, 2019, two inspectors from the U.S. Nuclear Regulatory Commission's (NRC) Region IV office will perform the baseline biennial requalification inspection at Diablo Canyon Power Plant, using NRC Inspection Procedure 71111.11B, "Licensed Operator Requalification Program."

Experience has shown that this inspection is a resource intensive inspection both for the NRC inspectors and your staff. In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. These documents have been divided into three groups. The first group (Section A of the enclosure) identifies information to be provided prior to the inspection to ensure that the inspectors are adequately prepared. The second group (Section B of the enclosure) identifies the information the inspectors will need upon arrival at the site. The third group (Section C of this enclosure) identifies the items which are necessary to close out the inspection and are usually sent a few weeks after the team has left the site. It is important that all of these documents are up to date and complete in order to minimize the number of additional documents requested during the preparation and/or the onsite portions of the inspection.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Ms. Amanda Sorenson of your regulatory services organization. Our inspection dates are subject to change based on your updated schedule of examination activities. If there are any questions about this inspection or the material requested, please contact the lead inspector Nicholas Hernandez (832) 689-9928 (nicholas.hernandez@nrc.gov).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0018. The NRC may not conduct or sponsor, and a person is not required to respond to, a

request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice & Procedure," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

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

Docket Nos.: 50-275, 05-323
License Nos.: DPR-80, DPR-82

Enclosure:
Request for Information

DIABLO CANYON POWER PLANT – NOTIFICATION OF INSPECTION (NRC INSPECTION
REPORT 05000275/2019002, 05000323/2019002 AND REQUEST FOR INFORMATION
DATED FEBRUARY 20, 2019

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 By: NAH ☒ Yes ☐ No ☒ Publicly Available ☐ Sensitive

OFFICE	SOE:OB	C:OB				
NAME	NHernandez	GWerner				
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DATE	02/04/2019	02/13/2019				

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BIENNIAL REQUALIFICATION INSPECTION DOCUMENT REQUEST

Inspection Report: 05000275/2019002, 05000323/2019002

Inspection Dates: April 8 to April 12, 2019

Inspection Procedure: IP 71111.11B, "Licensed Operator Requalification Program"

Lead Inspector: Nicholas Hernandez, Operations Engineer

A. The following information is requested in order to support inspection preparation activities. These items are listed by section as they appear in the inspection module (i.e. 2.02, 2.04, etc.). Requested materials should be sent either electronically or by CD/DVD in order to arrive at the Region IV office no later than March 15, 2019. Do not send USB flash drives.

- Electronically: To: Nicholas.Hernandez@nrc.gov (lead inspector);
Cc: Clyde.Osterholtz@nrc.gov (inspector)
- CD/DVD: To: US Nuclear Regulatory Commission, Region IV
ATTN: Clyde Osterholtz
1600 E. Lamar Blvd
Arlington, TX 76011

General Requests:

- List of licensed operators (SRO & RO) by crew (operating & staff)
- Training and Operations Department organization charts (with qualified LOR evaluators identified)
- Procedures that identify process for revising and maintaining LOR continuing training program
- List of outstanding LOR program changes
- List of plant events and industry operating experience incorporated into LOR program since last BRQ
- Audits and/or self-assessment reports addressing the LOR training program
- Last 2 years of simulator review committee (or equivalent) meeting minutes
- Last 2 years of Curriculum Review Committee (or equivalent) meeting minutes

Enclosure

02.03: Biennial Requalification Written Examination Quality

- The current and approved biennial written examination schedule
- The current requalification cycle written examination results to date
- **All** written examinations that have been approved for administration up to the date of submittal. Include password protection if e-mailed or double envelope protection if mailed per NUREG-1021.
- The current requalification cycle examination methodology (sample plan)

02.04: Annual Requalification Operating Test Quality

- The schedule for the operating tests to be given the week of April 8, , 2019
- All operating tests (password protected) that have been approved for administration up to and including the week of the onsite inspection
- All 2019 NRC-required annual operating tests
- Current requalification cycle operating test results
- Current requalification cycle operating test methodology (sample plan)
- List of time critical operator actions, including USAR references

02.05: Licensee Administration of Requalification Exams

- All procedures used to administer the annual operating test
- All procedures used to assess operator performance
- All procedures that describe conduct of simulator training
- All procedures used to test, operate, and maintain the simulator

02.06: Requalification Examination Security

- Tracking tools used to prevent excessive overlap on the written examinations and ensure sampling of required topics on a periodic basis
- Tracking tools used to prevent excessive overlap on the operating tests and ensure sampling of all required malfunctions (major events, instrument/component malfunctions, TS calls, etc.) on a periodic basis.
- All procedures that describe examination security, including procedures used to develop the examinations that include guidelines on overlap between examinations in current exam cycle tests and prior year examinations
- List of all condition reports since the last biennial requalification inspection related to examination security and overlap

02.07: Licensee Remedial Training Program

- List of remedial training conducted or planned since last biennial requalification inspection (includes remedial training for exam failures and training to correct generic or individual weaknesses observed during previous requalification exam cycle)
- Remediation plans (lesson plans, reference materials, and final documentation)

02.08: Conformance with Operator License Conditions

- All procedures and program documentation for maintaining active operator licenses, tracking training attendance, and ensuring medical fitness of licensed operators
- All procedures and associated documentation that supports reactivation of any SRO/RO license (operating or staff crew) since the last biennial inspection

02.09: Simulator Performance

- For the following cases, send the most recent transient test packages, which may be electronic or in paper single test packages, and shall be complete with test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with a write-up for any differences beyond the ANSI 3.5 standard requirements.
 - Transient test 3, Simultaneous closure of all main steam isolation valves
 - Transient test 10, Slow primary system depressurization to saturated condition with pressurizer relief or safety valve stuck open (inhibit activation of high pressure emergency core cooling system)
 - Steady State tests for low power test
- SBT packages for any three scenarios used for the 2018 annual requalification operating test
- All simulator management and configuration procedures if not already provided for Section 02.05 above
- Simulator discrepancy report (DR) summary list for all open DRs. For closed DRs, summary list for those items closed between April 8, 2017
- Two examples of primary parameters tested in order to verify core physics parameters. The applicable reference graphs from the plant physics data book (electronic or other means as available) should also be included as well as the test procedures used and the acceptance criteria with results.
- All simulator modification packages that are on hold, delayed, or just not completed in the last 2-years
- A list of simulator modification packages completed in the last 2-year window

02.10: Problem Identification and Resolution

- A summary report of all condition reports related to licensed operator actions/errors in the control room since April 8, 2017
- Any revised requalification training that was based on licensed operator performance issues since April 8, 2017

B. The following information is requested in order to support the onsite inspection activities. Requested materials should be available to the inspection team, either electronically or hardcopy, upon site arrival on April 8, 2019.

02.02: Exam Results / 02.03 and 02.04: Written Exam and Op Test Quality

- All approved operating tests (password protected) to be administered subsequent to the onsite inspection
- All results up to the day the team leaves the site.

02.08: Conformance with Operator License Conditions

- Access to licensed operators' records
- Access to licensed operators' training attendance records
- Access to licensed operators' medical records

02.09: Simulator Performance

- Simulator discrepancies reports (DRs) since April 8, 2017. This should include all open and closed DRs, with documentation / justification for closure

- Acceptance test documentation, including hardware and software model revisions at the time of acceptance (as available)
- Documentation that validates current models, including the thermal-hydraulic and neutronics models, to the actual plant
- All current model deficiencies, including USAR vs design differences in the simulator
- Summary list of plant modifications since April 8, 2017
- Plant modifications (both hardware and software) incorporated onto the simulator since April 8, 2017.
- The complete book of all simulator annual performance test packages (either hardcopy or electronic), complete with all transient tests, steady state tests, and malfunction tests. This should also include the test procedures for each test, the acceptance criteria, and results. For each transient test, the reference chart should be included or an equivalent subject matter expert review versus the simulator results with an analysis for any differences beyond the ANSI standard requirements
- Simulator reactor core performance test packages used to verify core physics parameters (ANSI/ANS 3.5 sections 3.4.3.3 / 4.4.3.3), including applicable reference graphs from the plant physics data book, test procedures, acceptance criteria, and results
- All simulator test, configuration management, and related documents available in the room for inspectors to review. This includes training needs analysis packages, simulator review committee meeting minutes, etc.
- Current copy of ANSI 3.5 standard you are committed to for simulator testing

02.10: Problem Identification and Resolution

- All condition reports related to licensed operator actions/errors in the control room.
- All condition reports from the last initial license exam

C. Diablo Canyon Power Plant is required to send the final results and any remaining written exams and operating tests to the lead inspector for final review and comparison against the significance determination tools in order to communicate the exit results for the inspection. Report results in the format below:

1. Total number of licensed operators.	
2. Number of licensed operators administered a requalification examination required by 10 CFR 55.59(a).	
3. Number of individual licensed operators who failed <u>any</u> portion of a requalification examination (written, JPM, or individual simulator scenario failures).	
3.a. Number of individual licensed operators who failed written exam	
3.b. Number of individual licensed operators who failed JPM exam	
3.c. Number of individual licensed operators who failed simulator scenario exam individually	
4. Divide line 3 by line 2 to obtain the individual requalification examination failure rate.	%
5. Number of crews administered simulator scenarios as part of a requalification examination required by 10 CFR 55.59(a)	

6. Number of crews who performed unsatisfactorily on the simulator scenarios.	
7. Divide line 6 by line 5 to obtain the crew simulator scenario failure rate.	%
8. Describe the reason for each licensed operator who was not administered an NRC-required requalification exam, or who did not pass an administered requalification exam, and the station's plan to satisfy the requalification exam requirement for each.	