



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 E. LAMAR BLVD  
ARLINGTON, TX 76011-4511

February 6, 2017

Mr. Edward D. Halpin, Senior Vice President,  
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 UNITS 1 AND 2 – NOTIFICATION OF  
INSPECTION (NRC INSPECTION REPORT 05000275/2017002;  
05000323/2017002) AND REQUEST FOR INFORMATION**

Dear Mr. Halpin:

From April 3 – 6, 2017, inspectors from the Nuclear Regulatory Commission's (NRC) Region IV office will perform the baseline biennial requalification inspection at Diablo Canyon Power Plant, Units 1 and 2, 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 on-site 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 Mr. John Lyle, Continuing Training Supervisor. 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 Thomas J. Farina at 817-200-1117 ([Thomas.Farina@nrc.gov](mailto:Thomas.Farina@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 "Rules of Practice and 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/**

Vincent G. Gaddy, Chief  
Operations Branch  
Division of Reactor Safety

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

Enclosure:  
Biennial Requalification Inspection  
Document Request

DIABLO CANYON POWER PLANT UNITS 1 AND 2 – NOTIFICATION OF INSPECTION (NRC INSPECTION REPORT 05000275/2017002; 05000323/2017002) AND REQUEST FOR INFORMATION – FEBRUARY 6, 2017

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Electronic Distribution for Diablo Canyon Power Plant

ADAMS ACCESSION NUMBER: ML17037D123

☒ SUNSI Review: ADAMS: ☐ Non-Publicly Available ☒ Non-Sensitive Keyword:  
 By: VGG ☒ Yes ☐ No ☒ Publicly Available ☐ Sensitive NRC-002

OFFICE	SOE:OB	C:OB				
NAME	TFarina	VGaddy				
SIGNATURE	E-mail	/RA/				
DATE	2/3/17	2/6/17				

OFFICIAL RECORD COPY

## BIENNIAL REQUALIFICATION INSPECTION DOCUMENT REQUEST

From: Thomas J. Farina  
Senior Operations Engineer, NRC RIV  
817-200-1117

To: John Lyle  
Continuing Training Supervisor, Diablo Canyon Power Plant  
805-545-3297

Subj: Information Request to Support April 3 – 6, 2017 Licensed Operator Requalification  
Program Inspection (IP 71111.11B)

**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 24, 2017. Do not send thumb drives.**

- Electronically: To: [Thomas.Farina@nrc.gov](mailto:Thomas.Farina@nrc.gov) (lead inspector);  
cc: [Clyde.Osterholtz@nrc.gov](mailto:Clyde.Osterholtz@nrc.gov); [John.Kirkland@nrc.gov](mailto:John.Kirkland@nrc.gov) (inspectors)
- Digital Storage Device to: U.S. Nuclear Regulatory Commission, Region IV  
1600 E. Lamar Blvd  
Arlington, TX 76011  
ATTN: Thomas Farina

### **General Requests:**

- List of licensed operators (SRO and RO) by crew (operating and staff)
- Training and Operations Department organization charts (with qualified LOR evaluators identified)
- Procedures that identify process for revising and maintaining LO continuing training program up to date
- 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 licensed operator requalification training program
- Last two years of simulator review committee (or equivalent) meeting minutes
- Last two years of Curriculum Review Committee (or equivalent) meeting minutes

### **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. This will need to have adequate password protection if e-mailed or double envelope protection if mailed via regular mail per NUREG-1021.

Enclosure

- The current requalification cycle examination methodology (sample plan)

02.04: Annual Requalification Operating Test Quality

- The schedule for the operating tests (JPMs and scenarios) to be given the week of April 3, 2017
- All operating tests (JPMs and scenarios) (password protected and provide separately via telephone at later date) that have been approved for administration up to and including the week of the on-site inspection.
- All 2016 NRC-required annual operating tests.
- Current requalification cycle operating test results.
- Current requalification cycle operating test methodology (sample plan)
- All portions of the UFSAR that identify operator response times for time critical operator actions

02.05: Licensee Admin 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

- Submit any tracking tools that you use as a means to prevent excessive overlap on the written examinations and also meet the intent of sampling all required topics on a periodic basis.
- Submit any tracking tools that you use as a means to prevent excessive overlap on the operating tests and also meet the intent of sampling all required malfunctions (including 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 examination 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 requalification examinations (includes training provided to operators to enable passing examinations and training provided to correct generic or individual weaknesses observed during previous requalification examination cycle)
- Remediation plans (lesson plans, reference materials, and attendance 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

- An index of the most recent operability test packages required by ANSI 3.5 2009, Appendix B, including performance and approval dates, and results.
- A list of simulator baseline data sources (ANSI 3.5 2009 5.1.1) for the transient performance tests required by ANSI 3.5 2009, Appendix B.3.2.1.
- All simulator management and configuration procedures if not already provided for Section 02.05 above.
- Simulator Discrepancy Report summary list for all open DRs. For closed DRs, summary list for those items closed since May 25, 2015.
- An index of most recent malfunction tests for the malfunctions listed in ANSI 3.5 2009 3.1.4, as required by Section 4.1.4. If these are satisfied exclusively by SBT packages, then include an index of relevant SBT packages.
- An index of core physics testing performed in the simulator since May 25, 2017, the plant physics data book reference used to compare against, and results.
- All simulator modification packages that are on hold, delayed, or not completed in the last two years.
- A list of simulator modification packages completed in the last two year window.
- An index of post-event simulator testing conducted since May 25, 2015.
- Current simulator differences list / lesson plan used in training.

02.10: Problem Identification and Resolution

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

**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 3, 2017.**

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

- All operating tests (JPMs and scenarios) to be given in all subsequent weeks after onsite week
- All results up to the day the team leaves the site.

02.08: Conformance with Operator License Conditions

- Access to licensed operators' records (operating and staff crews)
- Access to licensed operators' training attendance records
- Access to licensed operators' medical records

02.09: Simulator Performance

- Simulator discrepancies (DRs) since May 25, 2015. This should include all open DRs and DRs that have been closed, including the 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-hydraulics and neutronics models, to the actual plant.
- All current model deficiencies, including FSAR vs Design differences in the simulator (any documentation on this)
- Summary list of modifications from May 25, 2015.
- Plant Modifications (both hardware and software) completed on the simulator by due date from May 25, 2015.
- The complete book of all simulator annual performance test packages (usually in a single book, but may be electronic or in single test packages), 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 a write-up for any differences beyond the ANSI standard requirements.
- All test packages used to verify core physics parameters (such as MTC, IRW). 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 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 operator actions/errors in the control room.

**C. Diablo Canyon is required to send the final results summary and any remaining examinations and operating tests that have not been reviewed to the regional office lead inspector for this inspection for final review and comparison against the Significance Determination Tools in order to communicate the exit results for the inspection.**