



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 1, 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, UNITS 1 AND 2 – NOTIFICATION OF  
NRC DESIGN BASES ASSURANCE INSPECTION (PROGRAMS) AND  
(05000275/2018010 05000323/2018010) AND INITIAL REQUEST FOR  
INFORMATION**

Dear Mr. Welsch:

On June 11, 2018, the NRC will begin an inspection at your Diablo Canyon Power Plant, Units 1 and 2. A three-person team will perform this inspection using NRC Inspection Procedure 71111.21N, "Design Bases Inspection (Programs)," Attachment 1, "Environmental Qualification Under 10 CFR 50.49 Programs, Processes, and Procedures."

This inspection will evaluate the implementation of the environmental qualification of electrical equipment program, as implemented by the Diablo Canyon Power Plant, Units 1 and 2, Operating License. Additionally, the team will perform an inspection of the environmental qualification documentation files to verify that electrical equipment important to safety meets the requirements of 10 CFR 50.49. The team will select components that will be subjected to harsh environments and are required to mitigate the consequences of a design basis accident.

The inspection will include an information gathering site visit by the team leader and two weeks of on-site inspection by the team. The inspection team will consist of three NRC inspectors. The current inspection schedule is as follows:

On-site Information Gathering Visit: May 7-10, 2018  
Preparation Week: June 4-8, 2018  
On-site Weeks: June 11-15, 2018, and June 25-29, 2018

The purpose of the information gathering visit is to meet with members of your staff to become familiar with the Diablo Canyon Power Plant, Units 1 and 2, environmental qualification program. The lead inspector will request a meeting with your personnel to discuss the site environmental qualification program and procedures. Additionally, the lead inspector will request a discussion with your staff to become familiar with the environmental qualification regulations and standards to which the site is committed. Additional information and documentation needed to support the inspection will be identified during the inspection, including interviews with engineering managers and engineers.

Our experience with these inspections has shown that they are resource intensive, both for the NRC inspectors and the licensee staff. In order to minimize the inspection impact on the site and to ensure a productive inspection, we have enclosed a request for information needed for the inspection. This information should be made available to the lead inspector by April 30, 2018. Since the inspection will be concentrated on the environmental qualification of the equipment, the equipment qualification master list should be available to review prior to the information gathering visit to assist in our selection of components.

It is requested that this information be provided to the team leader as the information is generated during the inspection. Additional requests by inspectors will be made during the on-site weeks for specific documents needed to complete the review of that component/selection. 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 on-site portions of the inspection. In order to facilitate the inspection, we request that a contact individual be assigned to each inspector to ensure information requests, questions, and concerns are addressed in a timely manner.

The team leader for this inspection is Ronald A. Kopriva, Senior Reactor Inspector. We understand that our licensing engineer contact for this inspection is Ms. Amanda Sorensen. If there are any questions about the inspection or the requested materials, please contact the team leader by telephone at 817-200-1104 or by e-mail at [Ron.Kopriva@nrc.gov](mailto:Ron.Kopriva@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 3150-0011. 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 will be made 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/*

Thomas R. Farnholtz, Chief  
Engineering Branch 1  
Division of Reactor Safety

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

Enclosure:  
Initial Request for Information

cc: Electronic Distribution

**Initial Request for Information  
Design Bases Assurance Inspection (Programs), Environmental Qualification  
Diablo Canyon Power Plant, Units 1 and 2**

Inspection Report: 05000275/2018010 and 05000323/2018010

Information Gathering Dates: May 7-10, 2018

Inspection Dates: June 11-15, 2018  
June 25-29, 2018

Inspection Procedure: IP 71111, Attachment 21N, "Design Bases Assurance Inspection (Programs)"

Team Leader: Ronald A. Kopriva, Senior Reactor Inspector

***I. Information Requested for Information Gathering Visit (May 7, 2018)***

The following information should be provided to the lead inspector in hard copy or electronic format (Certrec IMS preferred), to the attention of Ronald A. Kopriva, Senior Reactor Inspector, by April 30, 2018, to facilitate the reduction in the items to be selected for a final list of components. The inspection team will finalize the selected list during the prep week using the documents requested in this enclosure. The specific items selected from the lists shall be available and ready for review on the day indicated in this request. \*Please provide requested documentation electronically in "pdf" files, Excel, or other searchable formats, if possible. The information should contain descriptive names, and be indexed and hyperlinked to facilitate ease of use. Information in "lists" should contain enough information to be easily understood by someone who has knowledge of pressurized water reactor technology. If requested documents are large and only hard copy formats are available, please inform the inspector(s), and provide subject documentation during the first day of the on-site inspection.

1. List of components that are in equipment qualification master list. If the plant is approved to categorize structures, systems, and component in accordance with 10 CFR 50.69, please provide the Risk Informed Safety Category of the component.
2. Listing of the equipment qualification master list components sorted by Birnbaum risk importance.
3. List of all post-accident monitoring instrumentation components and locations.
4. Documents which show the environmental service conditions expected for areas in which the environmentally qualified components are located.
5. Diablo Canyon Power Plant, Units 1 and 2, word-searchable updated final safety analysis report (UFSAR), license conditions, and technical specifications. Specifically identify which UFSAR sections address environmental (including seismic) qualification.

Enclosure

6. NRC Safety Evaluation Report(s) associated with the Diablo Canyon Power Plant, Units 1 and 2, environmental qualification program.
7. Identify the various environmental qualification standards (including year, edition, or revision) that Diablo Canyon Power Plant, Units 1 and 2, is committed.
8. Identify whether Diablo Canyon Power Plant, Units 1 and 2, has entered its period of extended operation (i.e., operation past the original 40-year license period).
9. Site (and corporate if applicable) procedures associated with the 10 CFR 50.49 environmental qualification program for electrical components. Additionally, please provide similar procedures used to verify mechanical components meet their 10 CFR Part 50, Appendix A, Criterion 4, "Environmental and Dynamic Effects Design Bases." Include procedures for procurement of qualified equipment, maintenance of qualified equipment, and modification to qualified equipment (including equivalency or commercial grade dedication programs).
10. Site high energy line break analyses, including associated plant area drawings.
11. Procedures for material storage and shelf life controls.
12. List of commercial grade dedication evaluations performed, for which the dedicated parts have been issued for installation on environmental qualification applications in the plant, for the previous 5 years. Include description of the component the part was issued to repair, work order, and date issued or installed.
13. List of condition reports related to the environmental qualification program or environmental qualification of components (both electrical and mechanical) for the previous 5 years.
14. Lists of modifications, repairs, or replacement of equipment qualification master list components completed for the previous 5 years.
15. List of modifications, repairs, or replacements of containment penetrations for the previous 5 years.
16. List of components removed from the environmental qualification program since beginning of operation.
17. Any self-assessments and quality assurance assessments of the environmental qualification program performed in the previous 5 years.
18. List of systems, system numbers/designators, and corresponding names.

## ***II. Discussions Requested during Information Gathering Visit***

1. Interview with representative to discuss site environmental qualification service condition analyses for plant areas, including plant drawings and assumptions. This includes analysis for areas that are subject to high energy line breaks (HELB).

2. Interview with representative to discuss environmental qualification mandated maintenance elements integrated into plant programs and procedures.
3. Interview with representative to discuss maintaining qualification for plant/equipment that has entered its period of extended operation, if applicable.

**III. Information Requested for Inspection Preparation (June 11, 2018)**

1. Equipment qualification documentation files, including test reports, for the electrical components selected by the team leader listed from the equipment qualification master list.
2. References associated with the electrical components equipment qualification document files.
3. Vendor manuals and technical sheets associated with the selected electrical components.
4. Tours of the rooms in which the selected electrical components are installed.
5. Tour of stored selected electrical components in the warehouse.

Inspector Contact Information:

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DIABLO CANYON POWER PLANT, UNITS 1 AND 2 – NOTIFICATION OF NRC DESIGN BASES ASSURANCE INSPECTION (PROGRAMS) (05000275/2018010 AND 05000323/2018010) AND INITIAL REQUEST FOR INFORMATION – March 1, 2018

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