

## DiabloCanyonNPEm Resource

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**From:** Ferrer, Nathaniel  
**Sent:** Wednesday, July 07, 2010 11:39 AM  
**To:** Grebel, Terence; Soenen, Philippe R  
**Cc:** Green, Kimberly; DiabloHearingFile Resource  
**Subject:** RAI Letter dated, July 6, 2010  
**Attachments:** RAI Related to the Review of the DCPD LRA - Fire Protection.pdf

Terry and Philippe,

Attached is an electronic copy of RAI Letter dated, July 6, 2010. A formal copy is being sent via mail.

Nathaniel Ferrer  
Project Manager  
Division of License Renewal  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
(301)415-1045

**Hearing Identifier:** DiabloCanyon\_LicenseRenewal\_NonPublic  
**Email Number:** 1178

**Mail Envelope Properties** (Nathaniel.Ferrer@nrc.gov20100707113800)

**Subject:** RAI Letter dated, July 6, 2010  
**Sent Date:** 7/7/2010 11:38:45 AM  
**Received Date:** 7/7/2010 11:38:00 AM  
**From:** Ferrer, Nathaniel

**Created By:** Nathaniel.Ferrer@nrc.gov

**Recipients:**

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Tracking Status: None

"DiabloHearingFile Resource" <DiabloHearingFile.Resource@nrc.gov>

Tracking Status: None

"Grebel, Terence" <TLG1@PGE.COM>

Tracking Status: None

"Soenen, Philippe R" <PNS3@PGE.COM>

Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>	
MESSAGE	314	7/7/2010 11:38:00 AM	
RAI Related to the Review of the DCPD LRA - Fire Protection.pdf			115246

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

July 6, 2010

Mr. John Conway  
Senior Vice President  
Generation and Chief Nuclear Officer  
Pacific Gas and Electric Company  
77 Beale Street, MC B32  
San Francisco, CA 94105

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE REVIEW OF  
THE DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2, LICENSE  
RENEWAL APPLICATION (TAC NOS. ME2896 AND ME2897) – FIRE  
PROTECTION

Dear Mr. Conway:

By letter dated November 23, 2009, Pacific Gas & Electric Company (PG&E) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the Operating Licenses for Diablo Canyon Nuclear Power Plant, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

The request for additional information was discussed with Mr. Terry Grebel, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1045 or by e-mail at [nathaniel.ferrer@nrc.gov](mailto:nathaniel.ferrer@nrc.gov).

Sincerely,

**/RA/**

Nathaniel Ferrer, Safety Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-275 and 50-323

Enclosure:  
Request for Additional Information

cc w/encl: See next page

July 6, 2010

Mr. John Conway  
Senior Vice President  
Generation and Chief Nuclear Officer  
Pacific Gas and Electric Company  
77 Beale Street, MC B32  
San Francisco, CA 94105

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE REVIEW OF THE DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2, LICENSE RENEWAL APPLICATION (TAC NOS. ME2896 AND ME2897) – FIRE PROTECTION

Dear Mr. Conway:

By letter dated November 23, 2009, Pacific Gas & Electric Company (PG&E) submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the Operating Licenses for Diablo Canyon Nuclear Power Plant, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

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Sincerely,  
*/RA/*  
Nathaniel Ferrer, Safety Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-275 and 50-323

Enclosure:  
Request for Additional Information

cc w/encl: See next page

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ADAMS Accession No.:ML101760104

OFFICE	PM:RPB2:DLR	LA:DLR	BC:RPB2:DLR	PM:RPB2:DLR
NAME	NFerrer (KGreen for)	SFigueroa	DWrona	NFerrer
DATE	06/29/10	06/29/10	07/06/10	07/06/10

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Diablo Canyon Nuclear Power Plant, Units 1 and 2  
License Renewal Application  
Request for Additional Information Set 7  
Fire Protection

**RAI 2.3.3.12-1**

License renewal boundary drawing LR-DCPP-18-106718-02 shows several fire water suppression systems associated with various transformers (e.g., main, auxiliary, and standby/startup transformers) as not within the scope of license renewal (i.e., not highlighted in green). Section 9.6.1 on page 9-8 of NUREG-0675, Supplement 8, "Safety Evaluation Report Related to the Operation of Diablo Canyon Nuclear Power Plant, Units 1 and 2," dated November 15, 1978, states that: "*Special protection water system are provided for the fire hazards which exist in the areas around the plant. Examples of these are dry pipe deluge spray system for main transformers, auxiliary transformers....*" The staff requests that the applicant verify that the fire water suppression systems associated with various transformers are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an aging management review (AMR) in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.12-2**

License renewal boundary drawing LR-DCPP-18-106718-03 shows a jockey pump and its associated components as not within the scope of license renewal (i.e., not highlighted in green). The jockey pump and its associated components appear to have fire protection intended functions required for compliance with 10 CFR 50.48 as stated in 10 CFR 54.4. The staff requests that the applicant verify that the jockey pump and its associated components are in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.12-3**

The following license renewal boundary drawings show the following fire protection systems/components as not within the scope of license renewal (i.e., not highlighted in green):

<u>LRA Drawing</u>	<u>Systems/Components</u>	<u>Location</u>
LR-DCPP-18-106718-07	Fire protection piping, valves, hose connections, and drains	Units 1 and 2 Containment Structure
LR-DCPP-18-106718-08	Fire water drains	Unit 1 Turbine Building

ENCLOSURE

LR-DCPP-18-106718-09	Fire water drains	Unit 2 Turbine Building
LR-DCPP-18-106718-11	A portion of the carbon dioxide (CO <sub>2</sub> ) fire suppression system	A114 and B115
LR-DCPP-18-106718-16	Fire hose connections FW-3-11-1, FW-3-12-1, FW-3-13-2, and FW-3-14-2	Intake Structure

The components listed above appear to have fire protection intended functions required for compliance with 10 CFR 50.48 as stated in 10 CFR 54.4. The staff requests that the applicant verify whether the fire protection systems/components listed above are within the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.12-4**

License renewal boundary drawing LR-DCPP-18-106718-12 shows Units 1 and 2 CO<sub>2</sub> fire hose reels highlighted as within the scope of license renewal for the following areas:

- Vital 4 kV Bus "F," Elevation 119'
- Exciter Field Breaker Room, Elevation 119'
- ISO Phase Bus Room, Elevation 107'
- 4kV Vital Cable Spreading Room, Elevation 107'
- 4 & 12 kV Switchgear Room, Elevation 85'

However, Final Safety Analysis Report, Section 2.5.1.2.6.1, "Low Pressure CO<sub>2</sub>," states that manually initiated low-pressure CO<sub>2</sub> hose reels of 100 foot length are provided only for the following areas:

- 12 kV Switchgear Rooms
- 4.16 kV Switchgear Rooms
- 4.16 kV Cable Spreading Rooms
- 25 kV Potential Transformer Area
- 480 V Switchgear Room
- 125 Vdc Battery and Inverter Rooms
- Electric Load Center Room

The staff requests that the applicant clarify this discrepancy.

**RAI 2.4-1**

Section 2.4 of the LRA does not include the following fire barrier and other fire protection components:

- Table 2.4-1, fire barrier seals
- Table 2.4-3, fire barrier coatings and wraps
- Table 2.4-7, fire barrier coatings
- Table 2.4-8, fire barrier coatings
- Table 2.4-9, fire barrier coatings
- Table 2.4-10, fire barrier seals and fire barrier coatings

The fire barrier components listed above appear to have fire protection intended functions required for compliance with 10 CFR 50.48 as stated in 10 CFR 54.4. The staff requests that the applicant verify whether the above fire barrier assemblies and fire protection components are within the scope of license renewal within the identified structure accordance with 10 CFR 54.4(a) and subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

Letter to J. Conway from N. Ferrer dated July 6, 2010

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RELATED TO THE REVIEW OF  
THE DIABLO CANYON NUCLEAR POWER PLANT, UNITS 1 AND 2, LICENSE  
RENEWAL APPLICATION (TAC NOS. ME2896 AND ME2897) – FIRE  
PROTECTION

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Diablo Canyon Nuclear Power Plant,  
Units 1 and 2

cc:

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Diablo Canyon Nuclear Power Plant, - 2 -  
Units 1 and 2

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