



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 27, 2015

LICENSEE: Pacific Gas and Electric Company

FACILITY: Diablo Canyon Power Plant, Unit Nos. 1 and 2

SUBJECT: SUMMARY OF APRIL 28, 2015, CATEGORY 1 PUBLIC MEETING WITH PACIFIC GAS AND ELECTRIC COMPANY TO DISCUSS DIABLO CANYON POWER PLANT, UNIT NOS. 1 AND 2 SEISMIC HAZARD REEVALUATION ASSOCIATED WITH IMPLEMENTATION OF JAPAN LESSONS-LEARNED NEAR-TERM TASK FORCE RECOMMENDATION 2.1, SEISMIC

On April 28, 2015¹, the U. S. Nuclear Regulatory Commission (NRC) staff held a Category 1 public meeting with the Pacific Gas and Electric Company (PG&E, the licensee) at NRC Headquarters, Two White Flint North, 11545 Rockville Pike, Rockville, Maryland. The purpose of this meeting was to discuss Diablo Canyon Power Plant, Unit Nos. 1 and 2 (Diablo Canyon) Seismic Hazard Reevaluation² associated with the implementation of Near-Term Task Force (NTTF) Recommendation 2.1: Seismic of the March 12, 2012, NRC request for information issued pursuant to Title 10 to the *Code of Federal Regulations* Part 50, Section 50.54(f) (hereafter referred to as the 50.54(f) letter)³.

During the meeting, the NRC staff provided an overview of NTTF Recommendation 2.1 "Seismic" including specifics of the review process as it relates to the Western United States (WUS) sites⁴. Additionally, PG&E representatives provided an overview of Diablo Canyon's seismic hazard reevaluation which included specific discussions of several focus areas identified by the staff and conveyed to PG&E before the public meeting⁵.

NRC staff and PG&E representatives' discussions included the following meeting highlights:

- NRC staff presented an overview of NTTF Recommendation 2.1 "Seismic" review process which included specifics on how the process would be applied to the review of the WUS submittals.
- NRC staff provided the overall schedules for Recommendation 2.1 seismic hazard and risk evaluation activities. The staff stated that the screening and prioritization results letter for the WUS reviews would be issued by mid May 2015. Specifically, for Diablo Canyon, the plant has screened-in for further risk evaluation as a higher priority group. Subsequently, by letter dated May 13, 2015⁶, NRC placed Diablo Canyon into the

¹ The meeting notice is available via the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML15105A528.

² Diablo Canyon's Seismic Hazard Reevaluation is available via ADAMS under Accession No. ML15070A607.

³ The 50.54(f) letter and Enclosure 1 are available under ADAMS Accession Nos. ML12053A340 and ML12056A047, respectively.

⁴ NRC's slide presentation is available via ADAMS under Accession No. ML15117A226.

⁵ PG&E's slide presentation is available via ADAMS under Accession No. ML15117A069.

⁶ The screening and prioritization results for the WUS sites can be found via ADAMS under Accession No. ML15113B344.

highest priority group (Group 1) for the reevaluated seismic hazard review along with 11 other reactor sites.

- The staff described the main differences between the Central and Eastern United States (CEUS) and WUS submittals. The staff emphasized the complexity of the WUS reviews and explained the reasons for anticipating that the WUS reviews may take longer to be completed than those for the CEUS.
- PG&E provided an overview of their seismic hazard reevaluation. Specifically, PG&E responded to a series of potential issues or focus areas that the staff had identified and conveyed to PG&E before the meeting⁷. These discussions helped the staff better understand PG&E approaches and added clarity to assist in the staff's review.
- PG&E provided additional clarification on Diablo Canyon's seismic design and licensing basis. Specifically, PG&E described their Long-Term Seismic Program margin assessment in order to demonstrate additional seismic margin and ensure plant safety while the updated risk evaluations are in progress.
- PG&E stated that they are moving forward with the seismic probabilistic risk assessment update and are currently coordinating with the Electric Power Research Institute to be one of the first licensees to complete these evaluations.
- The staff asked for clarifications in areas of the seismic reevaluation report where information appeared to be in conflict or incomplete.
- The staff indicated its plan to request from PG&E free field recordings for the Parkfield and San Simeon earthquakes used to develop the ground motion model. PG&E indicated that it will work with the staff to supplement the report with this information. Requests for additional information by the staff are also expected.
- The staff is currently evaluating PG&E's intentions not to perform the Expedited Seismic Evaluation Process and will provide a formal response.

No regulatory decisions or commitments were made during the meeting. The public was invited to observe the meeting and was given an opportunity to communicate with the NRC during the public meeting before adjourning. The NRC staff received several public comments, which were addressed during the meeting and no meeting feedback forms were received.

The staff received a comment from Dr. Gene Nelson (Physical Sciences professor at Cuesta College and Government Liaison for Californians for Green Nuclear Power) via email during the meeting. The NRC staff inadvertently missed the opportunity to acknowledge Dr. Nelson's comment during the meeting. According to Dr. Nelson, Diablo Canyon has favorable site conditions, which attenuate or dissipate earthquake energy over relatively short distances. Due to these favorable conditions, the primary earthquake forces seen by the plant would be dominated by nearby earthquake sources and energy transmitted to the plant would be

⁷ NRC Technical Focus Areas for Support of Public Meeting on April 28 can be found via ADAMS under Accession No. ML15113B360

dominated by the small section of the earthquake rupture closest to the plant. Dr. Nelson stated that when considering the information presented at the meeting of overall plant ruggedness and the seismic hazard insights discussed above, Diablo Canyon will continue to operate safely - with generous safety margins - during anticipated earthquakes.

The staff received a comment via email from Rochelle Becker (Alliance for Nuclear Responsibility) after the meeting on May 12, 2015⁸. Mrs. Becker summarized several concerns identified by the California Public Utilities Commission's Independent Peer Review Panel (IPRP) and emphasized the need for the staff to consider this information as part of its review process. The IPRP has expressed concerns regarding the modeling assumption used by PG&E to characterize soil conditions beneath the plant. In response to the comment, the staff stated that it is aware and following the IPRP activities and will consider this information as part of its review of the Diablo Canyon Seismic Hazard Screening Report supporting NTTF Recommendation 2.1: Seismic.

⁸ Rochelle Becker's (Alliance for Nuclear Responsibility) written concerns can be found via ADAMS under Accession No. ML15134A258

Please direct any inquiries to me at 301-415-1115 or by e-mail at
Nicholas.DiFrancesco@nrc.gov.

A handwritten signature in black ink, appearing to read "Nicholas DiFrancesco". The signature is fluid and cursive, with a large, prominent loop in the middle.

Nicholas J. DiFrancesco, Senior Project Manager
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

Docket Nos. 50-275 and 50-323

Enclosure:
List of Attendees

cc w/encl: Distribution via Listserv

List of Attendees

U.S. Nuclear Regulatory Commission
Public Meeting with Pacific Gas and Electric Company to discuss Diablo Canyon's seismic
hazard reevaluation associated with implementation of Japan Lessons-Learned Near-Term
Task Force Recommendation 2.1, Seismic
April 28, 2015

Name	Organization
Lisa Walsh	NRC/NRO
Clifford Munson	NRC/NRO
Diane Jackson	NRC/NRO
Scott Stoval	NRC/RES
Jon Ake	NRC/RES
Nicholas DiFrancesco	NRC/NRR
Mohamed Shams	NRC/NRR
Vladimir Graizer	NRC/NRO
Frankie Vega	NRC/NRR
Meralis Plaza Toledo	NRC/NRO
Thomas Weaver	NRC/RES
David Heeszal	NRC/NRO
Alice Stieve	NRC/NRO
Nilesh Chokshi	NRC/NRO
Mike Tschiltz	NEI
(continues to next page)	

Abbreviations:

NEI – Nuclear Energy Institute
NMSS – Nuclear Material Safety and Safeguards
NRO – Office of New Reactors
NRR – Office of Nuclear Reactor Regulation
RES – Office of Nuclear Regulatory Research

Enclosure

Name	Organization
Steve Wyman	NRC/NRR
Richard Rivera-Lugo	NRC/NRO
Siva P. Lingam	NRC/NRR
Meraj Rahimi	NRC/NMSS
Mike Markley	NRC/NRR
Tom Hipschman	NRC/RIV
Ryan Alexander	NRC/RIV
Wayne Walker	NRC/RIV
Tom Farnholtz	NRC/RIV
Farhanf Ostadan	Bechtel
Dennis Damon	NRC/NMSS
Damon Moslen	Friends of the Earth
Norm Abrahamson	PG&E
Nozar Jahangir	PG&E
Jearl Strickland	PG&E
Tom Jones	PG&E

Please direct any inquiries to me at 301-415-1115 or by e-mail at Nicholas.DiFrancesco@nrc.gov.

/RA/

Nicholas J. DiFrancesco, Senior Project Manager
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Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

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ADAMS Accession No.: ML15125A186

*concurrence via e-mail

OFFICE	NRR/JLD/JHMB/PM	NRR/JLD/LA	NRO/DSEA/RGS/BC
NAME	FVega	SLent	DJackson
DATE	05/15/15	05/05/15	05/19/15
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NAME	MShams	BHarris	NDiFrancesco
DATE	05/27/15	05/20/15	05/27/15

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