

Seismic Information Workshop

Workshop Objective: *Provide a forum for members of the public to gain a basic knowledge of seismic hazard and its applications for the safety and operation of commercial nuclear plants, including specific discussions of the Diablo Canyon facility.*

DAY 1: General Seismic Information (September 8, 2010)

Day 1 Objective: *Present an introduction to seismic hazard focusing on fundamental concepts including the science employed to measure and monitor geologic conditions and the methods used to translate data into commercial nuclear plant design specifications.*

8:00 a.m. – 8:15 a.m. Opening Remarks: Roy Caniano (NRC)

8:15 a.m. – 8:30 a.m. Keynote Speaker: John Stamatakos (SWRI)

NRC Facilitators: Bill Maier and Butch Burton

8:30 a.m. – 9:45 a.m. Session 1: Basics of Strong Motion Seismology

Introductions and Bios by NRC Member: Megan Williams

Session 1 Objectives:

- *Provide an explanation of plate tectonics, ground motion, and how seismic events are measured.*
- *Provide examples and characteristics of noteworthy earthquakes and a discussion on modern technology and construction practices used to reduce earthquake damage and risk.*

Speakers include: Doug Dreger (Berkeley), Ralph Archuleta (UC Santa Barbara), and Robb Moss (Cal Poly)

9:45 a.m. – 10:00 a.m. Question and Answer Period for Session 1

10:00 a.m. – 10:30 a.m. Break

10:30 a.m. – 11:45 a.m. Session 2: Seismic Source Characterization

Introductions and Bios by NRC Member: Christie Denissen

Session 2 Objectives:

- *Describe the various technologies used to identify faults such as aeromagnetic survey, marine magnetic survey, seismic reflection profiling, seismicity, sub-bottom profiling, geologic mapping, geodetic survey, and gravity survey.*

- *Provide an understanding of how fault analysis is incorporated into seismic hazard assessment including a discussion of the Uniform California Earthquake Rupture Forecast.*

Speakers include: Jeanne Hardebeck (USGS), Victoria Langenheim (USGS), and Tim Dawson (CGS)

11:45 a.m. – 12:00 p.m. Question and Answer Period for Session 2

12:00 p.m. – 1:15 p.m. Lunch

1:15 p.m. – 2:30 p.m. Session 3: Probabilistic Seismic Hazard Assessment

Introductions and Bios by NRC Member: Tom Farnholtz

Session 3 Objectives:

- *Provide an understanding of seismic hazard assessment including a discussion on deterministic versus probabilistic assessments.*
- *Discuss collaborative research between USGS/PG&E/CGS and how this fits into the National Hazard Maps and building codes.*

Speakers include: Annie Kammerer (NRC) and Mark Petersen (USGS)

2:30 p.m. – 2:45 p.m. Question and Answer Period for Session 3

2:45 p.m. – 3:15 p.m. Break

3:15 p.m. – 4:30 p.m. Session 4: Nuclear Power Plants and Seismic Hazard

Introductions and Bios by NRC Member: Tony Brown

Session 4 Objectives:

- *Discuss how nuclear plants protect against seismic hazard including monitoring programs and seismic classifications for equipment.*
- *Provide an understanding of how the NRC regulates nuclear plants with respect to seismic hazards.*

Speakers include: Torrey Yee (SCE) and Annie Kammerer (NRC)

4:30 p.m. – 4:45 p.m. Question and Answer Period for Session 4

4:45 p.m. – 5:00 p.m. Closing Remarks: Roy Caniano (NRC)

DAY 2: Diablo Canyon Power Plant (September 9, 2010)

Day 2 Objective: *Present seismic hazard information specific to Diablo Canyon Power Plant including an overview of the history of seismic review at the site and an update to the ongoing seismic studies and how the data has been or will be incorporated into the design and operation of the plant.*

8:00 a.m. – 8:15 a.m. Opening Remarks: Sam Blakeslee (U.S. Senator)

NRC Facilitators: Bill Maier and Butch Burton

8:15 a.m. – 9:30 a.m. Session 5: Diablo Canyon Seismic Review History

Introductions and Bios by NRC Member: Michael Peck

Session 5 Objectives:

- *Provide a review of the timeline of Diablo Canyon Power Plant licensing revisions and plant modifications made after the Hosgri fault was identified.*
- *Provide a summary of historical and current PG&E seismic monitoring programs.*

Speakers include: Lloyd Cluff (PG&E), Marcia McLaren (PG&E), and Goutam Bagchi (NRC)

9:30 a.m. – 9:45 a.m. Question and Answer Period for Session 5

9:45 a.m. – 10:15 a.m. Break

10:15 a.m. – 11:30 a.m. Session 6: Progress of Current Seismic Studies at Diablo Canyon

Introductions and Bios by NRC Member: Annie Kammerer

Session 6 Objectives:

- *Provide an update on the status of the Shoreline Fault studies and ongoing seismic studies being conducted in the central California coastal region (to include California legislative and regulatory initiatives related to seismic studies).*
- *Describe the actions being considered for future incorporation at the Diablo Canyon facility as new or updated data is made available.*

Speakers include: Barbara Byron (CEC), Norm Abrahamson (PG&E), and Lloyd Cluff (PG&E)

11:30 a.m. – 11:45 a.m. Question and Answer Period for Session 6

11:45 a.m. – 1:00 p.m. Lunch

1:00 p.m. – 2:15 p.m. Session 7: Tsunami Hazards Evaluation and Continued Discussions of Current Seismic Studies at Diablo Canyon

Session 7 Objectives:

- *Provide a summary of the Diablo Canyon tsunami hazards evaluation*
- *In the event that Session 6 does not provide enough time to adequately address the questions that are raised, this session will provide an opportunity for members of the public to ask questions and for PG&E to continue their presentations and address those questions.*

Speakers include: Stu Nishenko (PG&E), Norm Abrahamson (PG&E), and Lloyd Cluff (PG&E)

2:15 p.m. – 2:30 p.m. Closing Remarks: Roy Caniano (NRC)