

2009 WESTERN REGIONAL DAM SAFETY FORUM



**January 15-16, 2009
San Francisco, California**

General Information

This is a two-day forum intended for dam owners, regulators, hydro operations personnel, consultants and others with an interest in dam safety to meet and discuss issues of concern, share best practices and explore collaborative opportunities on a number of important areas of dam safety within the Western United States. The forum will feature presentations and panel discussions on three major topics of interest in dam safety. These topics will be presented in three concurrent tracks as follows:

Track 1: Seismic Issues
Track 2: Hydrologic/EAP Issues
Track 3: Management Issues

Some of the specific topics in this forum include:

- Current state-of-practice of seismic and hydrologic analysis for assessing dam safety;
- Collaborative approach in dealing with dam safety issues related to unusual and extreme loading conditions;
- Issues related to dam safety program management;
- Understanding FERC and state dam safety engineering guidelines;
- Sharing information on database and tracking systems among dam owners; and,
- Retaining the knowledge base in the hydro business

Venue: Bechtel Meeting Facilities
50 Beale Street
San Francisco, CA 94105

Date/Time: January 15-16, 2009 / 8:00 am – 5:00 pm

Registration Fee: None

Registration: Space is limited to 140 attendees. Registration is closed.

Accommodations:

<http://maps.google.com/maps?sa=N&tab=nl&q=hotels%20near%20245%20market%20st%2C%2094105>

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Organized by:

Federal Energy Regulatory Commission
California Division of Safety of Dams
Pacific Gas and Electric Company
Southern California Edison
U.S. Army Corps of Engineers
U.S. Bureau of Reclamation

Hosted by:

Pacific Gas and Electric Company

Breaks sponsored by:

GEI Consultants Inc and Southern California Edison

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Day 1: Thursday, January 15, 2009

8:00 am – 8:30 am	Registration		
8:30 am – 8:45 am	Objectives of the Forum – <i>Daniel Mahoney, Director, Division of Dam Safety and Inspections, Office of Energy Projects, FERC</i>		
8:45 am – 9:00 am	Welcoming Remarks – <i>Randal Livingston, Vice President, Power Generation, PG&E</i>		
9:00 am – 10:00 am	Overview of Seismic Issues in California – <i>Norm Abrahamson, Seismologist, Geosciences Department, PG&E</i>		
10:00 am – 10:15 am	Break		
10:15 am – 11:00 am	A Comprehensive Look at Hydrologic Modeling and Uncertainties – <i>Christopher Dunn, HEC</i>		
11:00 am – 11:30 am	Application of Risk Management in Dam Safety – <i>Brian Becker, Chief of Dam Safety Program, USBR</i>		
11:30 am – 12:00 pm	Educating the Next Generation of Leading Engineers – A Model at Harvey Mudd College – <i>Dr. Ziyad Duron, Harvey Mudd College</i>		
12:00 pm – 1:00 pm	Lunch Break		
	Track 1 Appropriate Return Periods for Design Ground Motions for Dams <i>Moderator – Norm Abrahamson, PG&E</i>	Track 2 Working with PMP and PMF <i>Moderator – Bill Rettberg, GEI</i>	Track 3 Management Issues Data Management <i>Moderator – John Yen, SCE</i>
1:00 pm – 1:25 pm	Summary of Current Practice for Selecting Return Periods for Design Ground Motions <i>Kofi Addo, BC Hydro</i>	Estimating probabilities of extreme floods/hydrologic risk methods used by Reclamation and USACE <i>John England USBR</i>	Dam Safety Data Base Program at Southern California Edison <i>Derick Dela Cruz, SCE</i>

1:25 pm – 1:50 pm	Ground Motions for Dams in Active Regions <i>Ivan Wong, URS</i>	Comparison of HMR 58/59 with HMR 36 <i>Melissa Collord, CA DSOD</i>	The Use of Electronic Data Management System with GIS for Enterprise Risk Management and Emergency Response <i>Joseph Sun, PG&E</i>
1:50 pm – 2:15 pm	Developing the Technical Basis for Selection of Appropriate Return Periods for Dams in Active Regions, Status of the DRP Project <i>Jennie Watson-Lamprey, Consultant</i>	Site Specific PMP <i>Edward Tomlinson, AWA</i>	PG&E's Dam Safety Compliance Management System <i>Kelly Lindblom, PG&E</i>
2:15 pm – 2:45 pm	Discussion <i>Norm Abrahamson, PG&E</i>	Question & Answer Session with Speakers and Moderator	Question & Answer Session with Speakers and Moderator
2:45 pm – 3:15 pm	Break		
	Track 1 Developing Design Ground Motions <i>Moderator - Wallace Lam, CA DSOD</i>	Track 2 Other Hydrologic and Hydraulic Issues <i>Moderator – John England, USBR</i>	Track 3 Management Issues and Working Relationships <i>Moderator – Gerry Maloney, FERC</i>
3:15 pm – 3:40 pm	Overview of Determining Background Seismicity <i>Bill Fraser, CA DSOD</i>	<i>California Division of Safety of Dams Hydrology Update Program</i> <i>Y-Nhi Enzler, CA DSOD</i>	Dam Safety Engineering Roles and Responsibilities Models at SCE <i>John Yen, SCE</i>
3:40 pm – 4:05 pm	Approaches for Developing Design Ground Motions <i>Faiz Makdisi and Robert Youngs, AMEC Geomatrix</i>	<i>Estimate of PMF, Degrees of Conservatism</i> <i>Cat Cecilio, Consultant</i>	Regulatory Consistency Panel Discussion <i>Ron Adhya, Dan Mahoney, FERC</i> <i>David Gutierrez, DSOD</i>
4:05 pm – 4:30 pm	FERC Guidelines for Seismic Loading <i>I.M. Idriss, Consultant and Bill Allerton, FERC</i>	PMF Snowmelt Calibration – Energy Budget Versus Degree-Day <i>Rob White, PG&E</i>	Regulatory Consistency Panel Discussion (con't) <i>Ron Adhya, Dan Mahoney, FERC</i> <i>David Gutierrez, DSOD</i>
4:30 pm – 5:00 pm	Use of Arias Intensity in Geotechnical Earthquake Engineering <i>Jeff Howard, CA DSOD</i>	Question & Answer Session with Speakers and Moderator	Question & Answer Session with Speakers and Moderator

Day 2: Friday, January 16, 2009

	<p>Track 1 Case Histories Moderator – Gene Hawkins, SCE</p>	<p>Track 2 EAP Guidelines, Best Practices, and GIS Inundation Maps Moderator – Wing Lee, FERC</p>	<p>Track 3 Knowledge Transfer and Personnel Development for Dam Safety, and Risk Management Moderator – John Yen, SCE</p>
8:00 am – 8:25 am	<p>Folsom Gravity Dam Analyses: What are Acceptable Deformations? <i>Yusof Ghanaat and Richard Goodman, Consultants</i></p>	<p>Changes to EAP Guidelines <i>Paul J. Shannon, FERC</i></p>	<p>Recruitment, Training, and Retention of Engineers for Knowledge Transfer at Southern California Edison <i>Susan Lomeli, Manager, SCE</i></p>
8:25 am – 8:50 am	<p>Success Dam Seismic Deformation Analysis using FLAC <i>Vlad Perlea, Consultant</i></p>	<p>Practical Improvements to the EAP Sections <i>Terri Loun, SCE</i></p>	<p>Risk Management: Using Risk Assessment to manage Owner’s Dam Safety and Related Business Risks <i>Dr. David Bowles, Utah State University</i></p>
8:50 am – 9:15 am	<p>Mammoth Pool Dam Seismic Deformation Analysis <i>Dr. Craig Findlay, Consultant</i></p>	<p>Inundation Maps in GIS Format with Digital Files of Inundation Zones <i>Rob White, PG&E</i></p>	<p>Risk Management: (con’t) Using Risk Assessment to manage Owner’s Dam Safety and Related Business Risks <i>Dr. David Bowles, Utah State University</i></p>
9:15 am – 9:40 am	<p>Dam No. 7 Fragility Analysis Preliminary Findings <i>Mike Knarr, SCE</i></p>	<p>Representation of Inundation Limits in Video Form <i>Wing Lee, FERC</i></p>	<p>Open Discussions General Management Issues <i>Moderator – John Yen</i></p>
9:40 am – 10:00 am	<p>Break</p>		

	Track 1 Case Histories (con't) Moderator – Gene Hawkins, SCE	Track 2 Other Hydrologic Issues and Case Histories Moderator – Bill Rettberg, GEI	Track 3 Risk Management Continue Moderator – Mike Cruz, SCE
10:00 am – 10:25 am	Consistency Among Natural Hazards that Impact Dams – Panel Discussion <i>Moderator - John Stoessel, SCE</i>	Extreme Precipitation Analysis Tool (EPAT): An alternative to Site Specific PMP Studies <i>Robert Rahrs and John Henz, HDR</i>	An Overview of the SCE Dam Safety Risk Assessment Program <i>John Yen, P. E. SCE</i>
10:25 am – 10:50 am	Panel Members: <i>Norm Abrahamson, PG&E; John Ake, NRC; Greg Scott, USBR</i>	<i>Design of Hydraulic Structures to Maximize Dam Safety</i> <i>S.T. Su, USACE</i>	Risk Assessment Approach for Project Design Floods <i>Raymond Wingert, P. E. Brett Towler, P. E., Ph. D. Devine Tarbell and Associates</i>
10:50 am – 11:15 am	Panel Discussion (continued)	FERC/CA DSOD Hydrologic Study <i>John Onderdonk, FERC; Melissa Collard, DSOD</i>	
11:15 am – 11:40 am	Panel Discussion (continued)	Design Flood Selection for Proposed Upper Sand Creek Dam, a Case Study <i>Ariya Balakrishnan, CA DSOD</i>	
11:40 am – 12:00 pm		Question & Answer Session with Speakers and Moderator	
12:00 pm – 1:00 pm	Lunch Break		
1:00 pm – 4:00 pm	Open Discussions for all Tracks: Panel Members – <i>Daniel Mahoney, David Gutierrez, Charles Ahlgren, John Yen, & Randy Rhodes</i> Summary and Conclusions		