

**AGENDA  
WORKSHOP 1  
KEY ISSUES AND AVAILABLE DATA  
CENTRAL AND EASTERN UNITED STATES  
SEISMIC SOURCE CHARACTERIZATION (CEUS SSC) PROJECT**

July 22-23, 2008  
Electric Power Research Institute  
3420 Hillview Ave.  
STARR Auditorium  
Palo Alto, California 94304

**GOALS OF THE WORKSHOP:** The goals of Workshop #1 are:

- To introduce the various participants in the CEUS SSC project, including the program management, project management, Technical Integrator (TI) team, Participatory Peer Review Panel (PPRP), sponsors, specialty contractors, and agency experts
- To introduce the workshop participants to the CEUS SSC project in terms of project goals, expectations, and schedule
- To review the project SSHAC Level 3 methodology, ground rules, expert roles, and peer review processes
- To identify the key hazard-significant SSC issues that will need to be addressed by the TI team during the course of the project
- To review the available data, their formats and availability, and identify those datasets that will be used in the subsequent evaluations
- To discuss the quality of the data and associated uncertainties
- To identify the path forward for the CEUS SSC project

**APPROACH:** The goals of the workshop will be accomplished by a series of topical sessions designed to provide a framework for the project and to enable the TI team to gain the information they need to begin the project. The first session will provide an introduction to the project, place it in context with previous studies and SSHAC methodologies, and review the scope and schedule of the activities. The session will also include a review of the project structure, roles of the TI team, PPRP, resource experts, and workshop observers. The second session will define the key hazard-significant technical issues that will be addressed as part of the CEUS SSC project. These issues provide a framework for all of the work activities to be conducted by the TI team. The third session will provide a summary of available data that can potentially be used in the project. The discussions will be lead by the Database and the Seismicity Catalog specialty contractors. Resource experts will assist in the discussions of the available data and all participants are encouraged to discuss the data, resolution, and uncertainties. It should be noted that although this workshop will include first-order interpretations of data, *the workshop will not focus on possible alternative interpretations or models.* Such discussion will occur at Workshop #2 on Alternative Interpretations. The focus of Workshop #1 will be on identifying all available datasets that can be made available to the TI Team subsequent to the workshop.

## TUESDAY, JULY 22

### Morning Introduction to CEUS SSC Project

9:00 – 10:30 Welcome and overview relative to CEUS SSC Project (Hamel, Salomone, Coppersmith)

- Project Vision, Meeting Objectives, Project History and Project Goals
- Sponsor Expectations
- History of Seismic Source Characterization in CEUS
- SSHAC Level 3 Methodology
- Roles and Responsibilities of Project Participants
- Schedule and Activities
- Ground Rules for Workshops

### 10:15 – 10:30 Break

**10:30 – 2:00 Key Hazard-Significant CEUS SSC Issues:** *The purpose of this session is to review and discuss the technical issues of importance to CEUS SSC in the context of usage in probabilistic seismic hazard analysis.*

10:30 – 12:00 Identification of hazard-significant CEUS SSC issues (McGuire, Toro)

- Hazard calculations at representative demonstration sites
- Contributions to mean hazard and to uncertainty

### 12:00 – 1:00 Lunch

1:00 – 2:00 Discussion of key CEUS SSC Issues (led by McGuire, Toro)

- Experience from site PSHAs
- Common observations (large zones) versus special cases (localized zones)

**2:00 – 5:00 Discussion of Available Data** *This session is intended to present the data that are available to conduct the CEUS SSC and that may be useful in addressing the key issues discussed in the previous session. Discussions of the data will include accessibility formats, applicability, and usefulness. Although the presentations will include first-order interpretations of the data, discussions of alternative interpretations and models of the data will be kept to a minimum for this workshop.*

### 2:00 – 4:30 Available Data (Presentations and discussions led by WLA)

2:00 – 2:30 Overview of CEUS Database (WLA)

2:30 – 3:00 Gravity data (Randy Keller)

3:00 – 3:30 Magnetic data (Dhananjay Ravat)

3:30 – 4:00 Crustal properties [Vp and Vs crust and mantle; crustal thickness; heat flow] (Walter Mooney)

4:00 – 4:30 Discussion

4:30 – 5:00 Comments from observers

5:00 TI Team meeting

## **WEDNESDAY, JULY 23**

### **8:00 – 2:00 Available Data (Presentations and discussions led by WLA)**

- 8:00 – 8:30 Geologic domains, tectonic features, rifts (Bob Hatcher)
- 8:30 – 9:00 Geologic domains, tectonic features, rifts (Randy Van Schmus)
- 9:00 – 9:30 Tectonic stress (Mark Zoback)
- 9:30 – 10:00 Geodetic strain data (Andrew Newman)

### **10:00 – 10:15 Break**

- 10:15 – 11:00 Discussion
- 11:00 – 11:30 Paleoliquefaction data (Steve Obermeier)
- 11:30 – 12:00 Paleoliquefaction data (Tish Tuttle)

### **12:00 – 1:00 Lunch**

- 1:00 – 1:30 Discussion

### **1:30 – 3:30 Seismicity Catalog (Presentations and discussions led by Bob Youngs)**

- 1:30 – 1:45 Strategy for developing seismicity catalog (Bob Youngs)
- 1:45 – 2:15 USGS catalog (Charles Mueller)
- 2:15 – 2:45 Available regional catalogs (Jeffrey Munsey)
- 2:45 – 3:15 Available regional catalogs (John Ebel)
- 3:15 – 3:30 Discussion

- 3:30 – 3:45 Comments from observers

- 3:45 – 4:00 Path Forward (Coppersmith)

### **4:00 Adjourn Workshop**

### **4:00-5:00 MEETING WITH PPRP**