

# **CAPSTONE-14 Building Inspection Framework Workshop #1**

**December 10-11, 2012  
Galt House Hotel  
Louisville, Kentucky 40202**

## **Participants**

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Bob Bauer, Illinois GS	Dean Illingworth, Indiana DHS
Steve Besemer, Missouri SEMA	Harry James, Kentucky EM
Derial Bivens, Tennessee DOT	Kate Mackz, Illinois EMA
Brian Blake, CUSEC	Donald Minster, Arkansas EM
Mike Calvert, CUSEC	Wendy Phillips, FEMA HQ
Ryan Chandler, Indiana DHS	Leon Shaifer, EMAC
James Cobb, Kentucky Survey	James Smithey, Ret.
Randal Cooley, Indiana DHS	Brad Thatcher, Indiana DHS
David Davis, Kentucky EM	Donna Tolan, Indiana DHS
Sue Evers, FEMA RVII	Caitlin Wahl, Indiana DHS
Chad Fischer, NCSEA	Billy Walker, Tennessee EMA
Donna Gray, Mississippi EMA	Tammie D. Wells, South Carolina EM
Jim Hawkins, Indiana DHS	Cecil Whaley, Tennessee EMA

## **Meeting Notes - December 10, 2012**

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### **Welcome and Introductions**

#### **Great Central U.S. ShakeOut & Earthquake Awareness Week**

Brian Blake discussed the lessons learned from the 2012 Great Southeast ShakeOut, including using traditional and social media, working with “Partners in Preparedness” (Red Cross, CERT, etc.) and colleges and universities.

Program Managers were briefed on moving the annual ShakeOut to October to align the Central U.S. ShakeOut with California, SouthEast ShakeOut, and many other states. The move, originally intended to occur in 2014, would have caused loss of momentum with K-12 schools, the primary audience and largest participant category in the ShakeOut, as a result of a gap of about 20 months between ShakeOuts. For this reason, CUSEC will hold the scheduled Feb. 7, 2013 ShakeOut but focus only on K-12 schools and university participation, and another ShakeOut on October 17, 2013, that will focus on all participants. Beginning in October 2013, ShakeOut will occur on the third Thursday of October, annually.

During Earthquake Awareness Week in February 2013, CUSEC will primarily focus on ShakeOut and activities planned by Missouri and Illinois. Each State gave an overview of

their Awareness Week plans which included Governor's proclamations, media outreach, public service announcements, safety fairs, workshops, and K-12 school programs.

CUSEC will also work in spring 2013 to establish the CUSEC EPIcenter (Earthquake Public Information Center) program. The program will connect various free-choice learning centers (libraries, museums, state facilities, universities, etc.) and provide them with a common set of tools to engage their visitors with consistent earthquake safety and mitigation messaging, new product ideas, etc. CUSEC will work with each Member State to establish at least one EPIcenter location during the summer and fall of 2013. Most EPIcenters will voluntarily join the program, as it will provide a free and alternative avenue of promotion for their organization.

Following the Earthquake Awareness Week discussion, States discussed other activities and NEHRP-related programs occurring within their States and the central U.S. region.

### **Building Inspection Program preparations**

In support of CAPSTONE-14, CUSEC is working to help States establish pre/post-earthquake building safety evaluation programs and Mission Ready Packages (MRP) for building inspection to deploy following an earthquake. The goals of the program include -

- Establish a basic framework for a pre/post-earthquake safety evaluation program for states who do not already have one
- Identify mitigation priorities for structures that are vulnerable to earthquakes
- Train volunteers in post-disaster building safety evaluation procedures
- Build MRPs for post-disaster building inspection teams and upload them into EMAC for subsequent inclusion in Mutual Aid Support System (MASS). NOTE: MASS will eventually provide national visibility of deployable resources and facilitate deploying them

The group discussed several aspects of their State building inspector programs, and how the following day's Building Inspection Workshop would support several of the goals of CAPSTONE-14 and the CUSEC Board of Directors.

### **Meeting Notes - December 11, 2012**

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#### **Deployable Building Inspector Resources**

The group /discussed the need for building inspectors following a catastrophic earthquake. During the August 2011 Mineral, VA earthquake inspectors from California came in to Virginia to inspect damaged buildings. Meanwhile, many inspectors in closer or neighboring states (to include the CUSEC States) could have assisted, saving time and transportation costs while also providing valuable inspection experience for many

engineers, architects, etc. Further, during disasters, there is no current template for deploying resource-typed building inspectors through EMAC. CUSEC is tasked, for CAPSTONE-14, to

- Develop EMAC based resource-typed building inspector teams
- Identify mitigation priorities through inventory and evaluation
- Provide an all hazards national model/resource
- Provide training and practical experience for building inspectors

The group reviewed the need for building inspectors based on the New Madrid earthquake M7.7 scenarios from NLE-11. According to the Mid-America Earthquake Center (MAEC), more than 700,000 buildings will sustain damage and need to be inspected prior to reoccupation. The MAEC scenario will also be used for CAPSTONE-14.

The group discussed strategies to create deployable building inspectors, which included:

- Focusing on a small residential building inspection team (not trying to address all issues at once)
- Build framework from existing successful programs
  - o Missouri SAVE Coalition
  - o Indiana I-BEAM
  - o California SAP
  - o NCSEA Emergency Response Plan

### **NCSEA Post-Disaster Engineer Deployment**

Chad Fisher gave an overview of the National Council of Structural Engineers Associations' (NCSEA) emergency response plan and post-disaster building inspection experience. The NCSEA plan was developed based on structural engineer response after the 9/11 terrorist attacks on the World Trade Center. Fischer discussed the challenges of creating a national building inspection response program integrated with FEMA/DHS.

### **Missouri SAVE Coalition**

Ben Ross of the Missouri SAVE Coalition gave an overview of the Missouri Structural Assessment and Visual Evaluation (SAVE) program. SAVE inspects buildings for safe occupancy following a wind, flood, or earthquake disaster. SAVE provides a framework for recruiting, training, and mobilizing volunteer inspectors. Inspectors under SAVE include engineers, architects, building inspectors and other design professionals. SAVE is authorized under State Law and activated by State Emergency Management Agency following a disaster. Ross gave examples of SAVE deployments after the Joplin and 2012 Branson, Missouri tornadoes.

## State Building Program Assessment

The group discussed the status of each Member State's post-earthquake building inspector program.

- Alabama - not present
- Arkansas - Has a program, but not formalized with Emergency Management or state law
- Illinois - Working with State Capital Development Board to create program
- Indiana - Has Indiana I-BEAM building inspection team under Indiana DHS
- Kentucky - Working on getting leadership buy-in to create a program, has training schedule for 2013
- Mississippi - no current program in place
- Missouri - SAVE Coalition
- Tennessee - Working with TNSEA and AIA to create program and training plan

After discussion, the group agreed to make the following recommendations to the CUSEC Board of Directors:

State Program Development: The SAVE Coalition should serve as a model for other States' administrative and operations plans (for those that don't have them) to avoid "reinventing the wheel." This model has been created, updated, field tested and can be easily adapted for use by other States.

Training Model: The SAVE (ATC20/45 & FEMA154) or CalSAP training models should be the standard training protocol for volunteer building inspector programs.

## Draft Mission Ready Package

Leon Shaifer, Senior EMAC Advisor to the National Emergency Management Association (NEMA), gave the group an overview of EMAC, the EMAC law (handout), Mission Ready Packages (MRP), and how they will be used going forward in state-to-state EMAC requests. This included a demonstration of the EMAC MRP template and how it works. He also noted that NEMA is the single point-of-contact and administrator of EMAC. Following the demonstration, Mr. Shaifer facilitated the group in creating an EMAC based Mission Ready Package template for volunteer building inspectors.

The MRP template is a very detailed Microsoft Excel spreadsheet with back-up pages for details that show on the main page. It allows for detailed manpower and cost information and simplifies the EMAC REQ A process for requesting and offering assistance. The MO SAVE Program (Ben Ross and Steve Besemer, who were present) developed an initial MRP

for a two person residential building inspector team. Mr. Shaifer led us through the template block by block, giving detailed explanations where needed and we made minor adjustments to the MRP where appropriate to satisfy the needs of the broader group. Most in attendance participated in the effort, and everyone understood that our MRP was not meant to tie the States' hands but to serve as a starting point which could be modified based on specific needs which may vary by disaster.

The template created during the workshop was for "Type III Post-Disaster Building Evaluation Strike Teams". Type III Teams consist of inspectors capable of handling small, regular, and residential type construction. Following the workshop, CUSEC will work with Mr. Shaifer and the states to complete/revise the template, and create Type I and Type II Strike Team (capable of fulfilling more detailed inspections/evaluations) templates.

### **Back-Brief to CUSEC Board of Directors**

Chad Fischer, NCSEA, briefed the Board on the NCSEA SEER Plan and effort. He stated that our CAPSTONE-14 scenario would require 70,000 building inspectors. (NOTE: We have about 2000, so we need many more and will have to bring in many via EMAC.) Leon Shaifer, NEMA, and Cecil Whaley, Tennessee Earthquake Program Manager, briefed the Board on our MRP work. Whaley recommended to the Board that the SAVE Coalition administration plan and SAVE Coalition or CalSAP models be used as training protocols and templates for states to use. Both briefings were well-received and generated additional interest in the BIRD program.