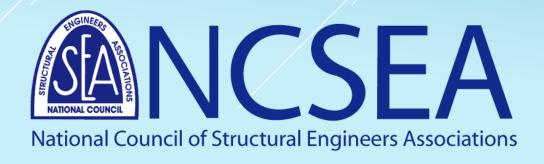
NCSEA COMMUNICATION MEETING: Structural Engineering Emergency Response Program

Speaker

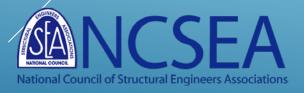
NCSEA SEER Committee Co-Chair:

William Bracken

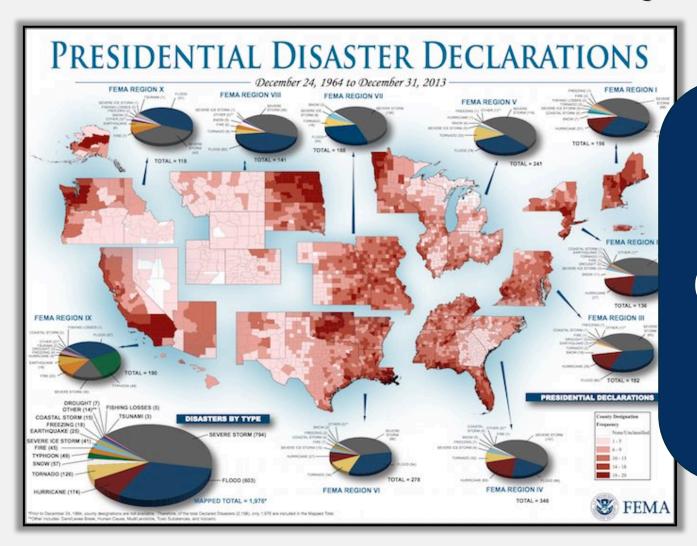


Topics of Discussion

- SEER program
- Committee Makeup
- 2nd Responder Roster
- Collaboration & Participation



No Community is Immune



In 2016 More than
100 million people
within the US
(1/3 of it's population)
were adversely
impacted by a
natural disaster

What Is Recovery?

The task of restoring the infrastructure and returning a community to normal operation

How Does Recovery Begin?

By utilizing 2nd Responders to determine whether structures are suitable for re-



habitation

Caution: This structure has been inspected and found to be damaged as described below:	Time(Caution: Aftershocks since inspection
Entry, occupancy and lawful use are	may increase damage and risk.) This facility was inspected unde
restricted as indicated below:	emergency conditions for: (Jurisdiction)
	Inspector ID / Agency
Facility Name and Address:	

UNS DO NOT ENTER (THIS PLACARD IS NOT A	OR OCCUPY		
This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below:	Date Time This facility was inspected under emergency conditions for:		
Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.	(Jurisdiction) Inspector ID / Agency		
Facility Name and Address:			

What is A 2nd Responder?

A trained and qualified individual (resource) capable of performing post-disaster damage assessments

2nd Responders

There are 4 classes of 2nd Responders:

- FEMA Structure Condition Evaluator (SCE) I, II or III
- ICC Disaster Response Inspector (DRI)
- CalOES SAP Assessor
- ATC 20 or 45 Damage Assessor

2nd Responders

	ders	Title	Certification Required	
	FEMA / NIMS Resource	SCE – Type 1 (Structure Condition Evaluator)	Yes (1)	
		SCE – Type 2 (Structure Condition Evaluator)	Yes (1)	
		SCE – Type 3 (Structure Condition Evaluator)	Yes (1)	
	Mutual Aid / EMAC Resource	DR Inspector (ICC: Disaster Response Network)	Yes ⁽²⁾	
		SAP Assessor (CalOES: Safety Assessment Program)	Yes ⁽³⁾⁽⁴⁾	
	Non-Affiliate	ATC Damage Assessor	No	

2nd Responders 2nd Responder (Damage Assessment) **FEMA Structure Condition Evaluator (SCE) EMAC / Mutual Aid Resource** Non-Affiliate **Damage Assessment** CalOES Safety **ICC Disaster** ProfessionalsQualifications Matrix (Domestic) Assessment ATC Damage SCE - Type 1 (5) SCE - Type 2 (5) SCE - Type 3 (5) Response (DR) Program (SAP) Assessor Inspector (6) Evaluator (7)(8) TRAINING / EDUCATION First Aid America Heart Association Cardiopulmonary Resuscitation (CPR) (Recommended) (Recommended) Advanced First Aid Incident Command Sysytem (ICS) Classes IS-100: Introduction to Incident Command System (Recommended) IS-200: ICS for Single Resources and Initial Action Incidents (Recommended) National Incident Management System (NIMS) Classes IS-700: National Incident Management System Introduction (Recommended) IS-800: National Response Framework Introduction (Recommended) **Emergency Support Functions (ESF) Classes** IS-803: ESF #3 - Public Works and Engineering IS-809: ESF #9 - Search and Rescue ATC Classes ATC-20 Seismic Damage Assessment class ATC-45 Wind & Flood Damage Assessment class Advanced: ATC-20 and ATC-45 classes with additional concepts of operations training ICC Disaster Response (DR) Inspector class California OES Certified Safety Assessment Program (SAP) Evaluator class (Only 1 Required) (Only 1 Required) (Only 1 Required) **Specialty: Structure Condition Evaluator Building Safety Assessment Engineer Building Safety Assessment Leader**

SEER program - Mission

The SEER Program is a comprehensive nationwide program consisting of four main components:

- Training
- Roster Management
- Advocacy
- Assistance Coordination



Facilitate and/or deliver training to design and construction professionals so as to qualify them to participate as 2nd responders at a local, State or national level.



NCSEA Sponsored / Delivered

- ICC Disaster Response Inspector (DRI)
 - 2-Day On-site Institute (includes a 1-Hour exam)
 - Scheduled upon request
 - Receive: ATC-20, ATC-45, ICC Certificate & ÉUs



NCSEA Sponsored / Delivered

- CalOES Structural Assessment Program (SAP)
 Assessor
 - 6-hour NCSEA Webcast
 - Regularly scheduled through NCSEA
 - Receive: CalOES Certificate & Card

FEMA Online

- NIMS/ICS IS-100 & 200
- NIMS/ICS IS-700 & 800
- NIMS/ICS IS-803 & 809

(https://training.fema.gov/nims/)



SEER program - Roster Management

Compile and maintain a database of Structural Engineers who are willing to assist with post-disaster condition assessments of structures at a local, State or national level

The SEER: 2nd Responder Roster is a self-reporting system accessed through the NCSEA website

http://www.ncsea-seer.com/



NCSEA-SEER Volunteer System

WELCOME to the NCSEA Structural Engineers Emergency Response (SEER) volunteer system. This system is a database of Structural Engineers who have various levels of post-disaster training and are interested in assisting with post-disaster condition assessments of structures (ATC-20 and ATC-45 type

PLEASE NOTE this database is a self-reporting system used to track individuals willing to participate in post-disaster assessments. Cordiact information contained with his database will be shared with local, state and federal agencies requesting post-disaster assessment assistance on an as-requested basis. NCSEA will also utilize contact information contained within the database to disseminate information relevant to Disaster Response professionals such as event notices, training opportunities and credentialing initiatives.



User login

Username *

Password '

- Create new account
- Request new passwor



SEER program - Advocacy

Education of AHJs, allied associations, members and the public on the benefits of having engineers participating in 2nd response and performing post-disaster assessments

SEER program - Advocacy

- Education and promotional materials are being developed and disseminated
- Existing ties will be strengthened
- New relationships will be established

Existing Ties



National Response Framework

Second Edition May 2013





United States Department of Agriculture

Technology & Development Program

December 2005

0573-2345-MTDC

Inspecting Buildings after Natural Disasters

safety need to determine the damage to buildings and let the SEERPlan Manual was completed in 2003 (figure 1). The are difficult, particularly because building department em- An order form is available at http://www.ncsea.com/ ployees also may be victims of the disaster and may be over- downloads/seerplanorder.pdf. whelmed with the workload.

he recent hurricanes in the United States and the earth- for an immediate response by structural engineers who perform quake in Pakistan show the need for rapid structural the structural assessments after a major disaster. The plan safety assessments of buildings after natural disasters. would help States assemble teams of structural engineers ready After a disaster, public officials who regulate building to respond safely and efficiently to a structural disaster. The public know whether the buildings are safe. These assessments manual can be ordered from the NCSEA for \$25 plus shipping.

Where to Find Information about Assessments

Recently, the National Council of Structural Engineers Associations (NCSEA) developed a manual and training package for these assessments. The manual outlines a comprehensive SEERPlan Manual: Structural Engineers Emergency Response Plan. The primary focus of the plan is to develop a framework

Highlights...

- Structural engineers need to be prepared to make rapid safety assessments of buildings after natural disasters.
- · Manuals and guidelines published by the National Council of Structural Engineers Associations and the Applied Technology Council can help structural engineers prepare themselves for these assessments.



Figure 1-The SEERPlan Manual: Structural Engineers Emerg. Response Plan was developed for structural engineers who need to perform structural assessments after natural disasters.

In the late 1990s, the Applied Technology Council (ATC) developed and published Post-Earthquake Safety Evaluation of Buildings (ATC-20). The ATC recently published guidelines on safety evaluations of buildings after windstorms and floods

For additional information, contact: Scott Groenier, project leader; USDA Forest Service, MTDC; 5785 Hwy, 10 West; Missoula,







SEER program - Assistance Coordination

Coordinating and/or providing 2nd response assistance to AHJs and other stakeholders based on the roster

SEER program - Assistance Coordination

- At the local and State level through MOs
- At the National and International level through NCSEA

Topics of Discussion

- SEER program
- Committee Makeup
- 2nd Responder Roster
- Collaboration & Participation

Committee Makeup

Redundancy

- Co-Chairs
- Voting Members
- Corresponding Members
- SMEs



Committee Makeup

9 Regional Voting Members

- North West
- Mid-Pacific
- South West

- North Mid-West
 - Mid-West
- South Mid-West

- North East
- Mid-Atlantic
 - South East

Committee Makeup

Corresponding Members

One for each member organization

SMEs

As Needed

Topics of Discussion

- SEER program
- Committee Makeup
- 2nd Responder Roster
- Collaboration & Participation



2nd Responder Roster

A database of trained and certified 2nd responders who are willing to assist with post-disaster condition assessments of structures at a local, State or national level



NCSEA-SEER Volunteer System

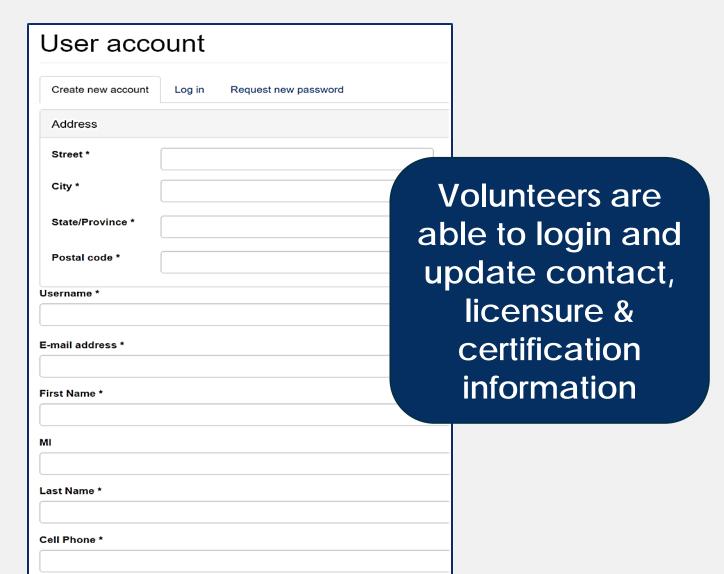
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http://www.ncsea-seer.com/

User Account



Licensure
Upload &
Experience

Volunteers check licenses held and upload PDF copies of licenses

Licensure * SE BO PE CO RA FM Other	 SE (Engineer) PE (Engineer) RA (Architect BO (Building) CO (Code On Plans/Inspect FM (Fire Mars) 	t) Official) fficial: ion/Compliance)
Year Started in Profession		
Previous Deployment Ex No Yes		

Training & Certification Upload

Formal Disaster Inspection Training * None FEMA/USACE Structures Specialist I FEMA/USACE Structures Specialist II NIMS/ICS IS-100 NIMS/ICS IS-200 NIMS/ICS IS-700 NIMS/ICS IS-800 NIMS/ICS IS-803 NIMS/ICS IS-809 ICC Disaster Response Inspector (DRI) CalOES Safety Assessment Program (SAP) **Building Safety Assessment Leader** Building Safety Assessment Engineer **GPS** Familiarization CPR Certification ATC 20 ATC 45

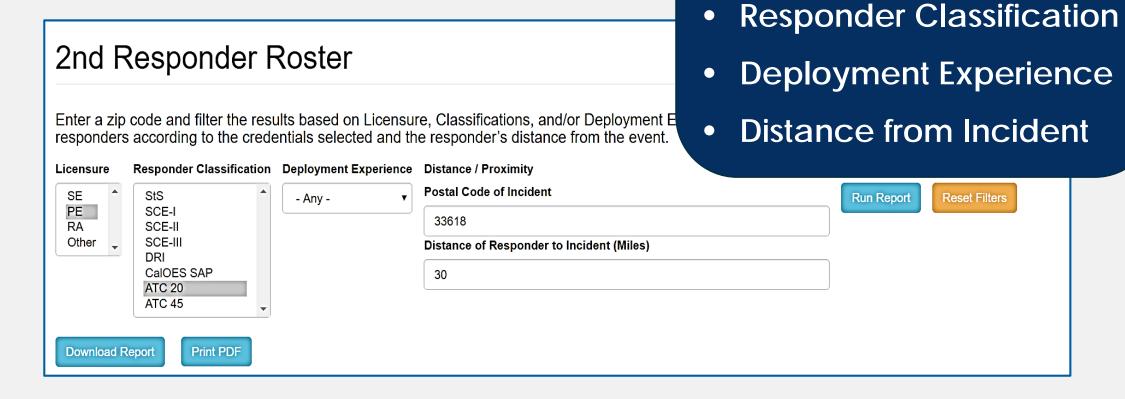
Volunteers check certifications held and upload PDF copies of certificates

Locating 2nd Responders



Locating 2nd Responders

Roster Reports



Admin Users are able to

locate volunteers by

specifying:

Locating 2nd Responders

Roster Reports

Currently the roster includes 700 volunteers

Download	Report	Print PI	OF				volunteers			
Distance	Name	City	State	Postal Code	Cell Phone	Licensure	NCSEA Member Organization	Disaster Response Classifications	Deployment Experience	Where Deployed
	David Compton	Tampa	Florida	33618	813-477- 7539	PE	FSEA Florida	ATC 20, ATC 45	Yes	Mississippi
	Geoffrey Chambers	Tampa	Florida	33618	9047424215	PE, Other	FSEA Florida	ATC 20, ATC 45	No	
	William Bracken	Tampa	Florida	33618	813-927- 7055	SE, PE	FSEA Florida	StS, SCE-III, DRI, CalOES SAP, ATC 20, ATC 45	Yes	9 Hurricanes, tornados, 5 collapsed Structures / Gulf & Atlantic Coast / Easter and Mid-West US

Topics of Discussion

- SEER program
- Committee Makeup
- 2nd Responder Roster
- Collaboration & Participation



Collaboration

National Level











Collaboration

State & Local Level

- Working to develop and maintain legislative protections for 2nd responders
- Participating in State and regional response programs

Participation - Member Organizations



Training

Promote and Facilitate SEER Program Training

SEER 2nd Responder Roster

- Promote Participation in the 2nd Responder Roster
- Provide Regular Updates and Feedback to NCSEA

Participation - Member Organizations



Member Organizations

Advocacy

- Disseminate Educational and Promotional Materials to AHJs, Members and the Public
- Educate AHJs at a State and Local Level on the SEER Program and the 2nd Responder Roster
- Work to Establish and Strengthen Relationships with AHISs at a State and Local Level

Participation - Member Organizations



Organizations

Assistance Coordination

- Provide Instruction and Guidance to members regarding the 2nd Responder Roster and Activation Protocols
- Provide Assistance and Volunteers in response to State and Local Requests

Questions?

NCSEA SEER Committee Co-Chairs:

William Bracken, (p) 813-243-4251 wbracken@brackenengineering.com

Scott Nacheman, (p) 773-590-2278 snacheman@gmail.com

