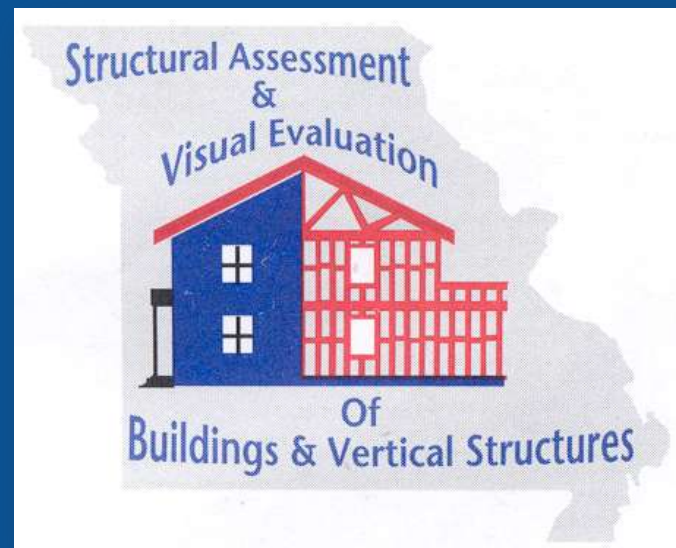


# Missouri SEMA S.A.V.E. Coalition Program Overview





# Missouri S.A.V.E. Coalition



Engineers  
Architects

Building Inspectors

Other Qualified Individuals Certified Under SAVE

**All Volunteer Professionals**





# Missouri S.A.V.E. Coalition



## **The S.A.V.E. Board of Directors Come From the Coalition's Participating Professional Organizations:**

- American Council of Engineering Companies/Missouri (ACEC/MO)
- American Institute of Architects/Missouri - (AIA/MO)
- American Society of Civil Engineers - (ASCE)
- Missouri Society of Professional Engineers - (MSPE)
- Structural Engineers Association of Kansas & Missouri - (SEAKM)
- Earthquake Engineering Research Institute - (EERI)
- Society of American Military Engineers/St. Louis - (SAME)
- Missouri Seismic Safety Commission - (MSSC)
- Missouri Association of Code Enforcement - **NEW** (MACE)

# What S.A.V.E. Does

- Mostly Rapid Visual Inspections per ATC-20 and ATC-45
- Exterior Only, Structural Life Safety
- Post Inspection Placards:



**UNSAFE**  
(DO NOT ENTER OR OCCUPY  
(THIS PLACARD IS NOT A DEMOLITION ORDER))

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: \_\_\_\_\_  
(Justification)

Inspector ID / Agency: \_\_\_\_\_

Facility Name and Address: \_\_\_\_\_

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority



**RESTRICTED USE**

Caution: This structure has been inspected and found to be damaged as described below.

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: \_\_\_\_\_  
(Justification)

Inspector ID / Agency: \_\_\_\_\_

Facility Name and Address: \_\_\_\_\_

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority



**STRUCTURALLY INSPECTED**  
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (as indicated below) and no structural damage has been found.

☐ Inspected Exterior Only  
☐ Inspected Exterior and Interior

(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: \_\_\_\_\_  
(Justification)

Inspector ID / Agency: \_\_\_\_\_

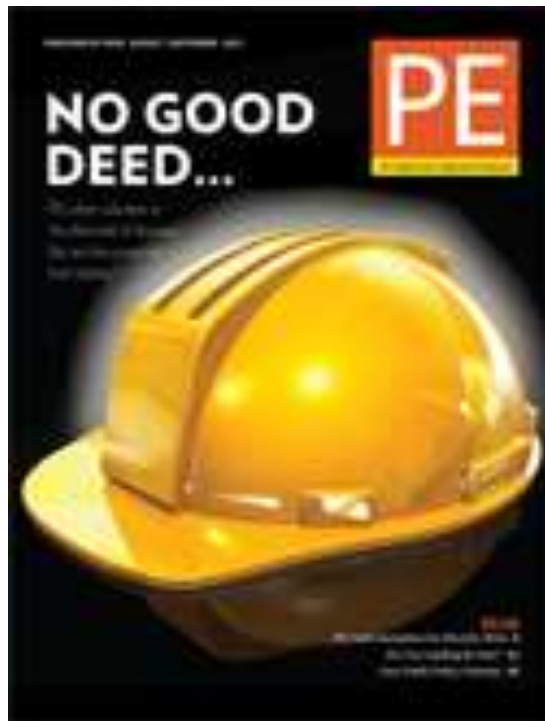
Facility Name and Address: \_\_\_\_\_

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

- Joplin EF-5 Deployment Data used by FEMA, Missouri National Guard, NIST, and ASCE Researchers



# Missouri S.A.V.E. Coalition



**SAVE Coalition  
Implemented by  
RSMo 44.023**

**SEMA Authorized to  
Establish Volunteer  
Inspection Program**





# Missouri S.A.V.E. Coalition



## S.A.V.E. Volunteer Service

**Duration = 3 days**

**Liability = Willful & Gross  
Negligence Only**

**Duty With = Local Jurisdiction**

**Expenses = Local Jurisdiction  
Reimbursement**





# Missouri SAVE Coalition



**Around 1,100  
Members Currently**

**It Starts With  
ATC-20 Training &  
SAVE Membership**



Source: SEMA



# S.A.V.E. Resource Typing



## Four Categories of Inspectors:

1. **Structural I:** Licensed Architect or Licensed P.E. (Structural) with 5 years experience in design and/or construction
2. **Structural II:** Non-Licensed Architect or Engineer or a Certified Building Inspector / Code Official; or a Carpenter or Iron Worker with 5 years experience
3. **Special Inspector I:** Licensed P.E. (Non-Structural)
4. **Special Inspector II:** Non-Carpenter or Non-Iron Worker trade experience in construction, or a Certified Building Inspector / Code Official





# Missouri S.A.V.E. Coalition



**MO SEMA is the singular authority  
that can legally activate the  
MO S.A.V.E. Coalition**

**Legal Immunity is not in effect, unless the  
S.A.V.E. Coalition has been activated by SEMA**



# How S.A.V.E. Activates



EVENT OCCURS



Governor  
Declares Emergency



Local Government Requests Building  
Inspection Help from SEMA



S.A.V.E. Teams Begin Deployment



# S.A.V.E. Coalition Response



## S.A.V.E. Deploys Number of Teams Based on Scope of Event

- Two or Three Person Teams with at least One Structural I or Special I per Team
- S.A.V.E. members from just outside the disaster site deployed first
- S.A.V.E. Statewide Coordinator deploys to State EOC





# Local Government Responsibilities



1. Sign Memorandum of Agreement
2. Appoint Local Incident Commander
3. Identify Priority Structures
4. Deputize S.A.V.E. Members
5. Provide Workers Compensation Ins.
6. Reimburse travel expenses



# Logistics By Local Community



## Local Support for SAVE Teams

1. Food, Lodging
2. Transportation within Disaster Area
3. Meeting/Assembly Place
4. Electric, Phone, Internet, Copies  
(Desirable But NOT Required)

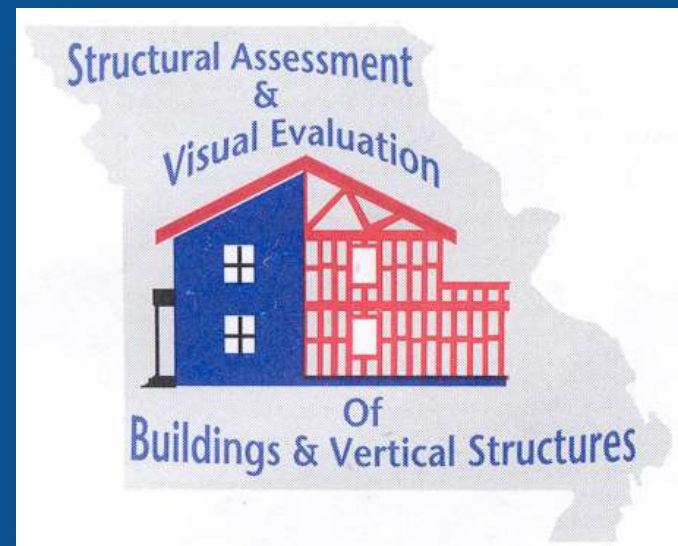


# SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

## Joplin EF-5 Tornado Deployment

May 25 – 28, 2011



# Joplin Aerial Photo



Source: National Weather Service



# Aftermath



Photo Credit: Michael Goldschmidt – S.A.V.E.

Preliminary Locations of Deceased	# of Victims		Preliminary Locations of Deceased	# of Victims
Residences - single family	54		Pizza Hut	5
Greenbriar Nursing Home	21		Harmony Heights Baptist Church	3
St. John Regional Medical Center	15		Wal-Mart	3
Outside (6 in vehicles)	14		Meadows Healthcare Facility	2
Residences - apartments	11		Stained Glass Theater	2
Unknown	8		Academy Sports Store	1
Home Depot	8		AT&T store	1
Full Gospel Church	7		Officer killed in the line of duty	1
Elks Lodge	5		TOTAL	161

Photo Credit: N.I.S.T.

# Joplin EF-5 Event Time Line

- May 22<sup>nd</sup> 5:41 pm Tornado Strikes
- May 22<sup>nd</sup> 5:42 pm Search and Rescue Efforts Begin
- May 23<sup>rd</sup> 8:10 am S.A.V.E. Regional Coordinators  
Begin Phone Tree Call Down
- May 24<sup>th</sup> 10:39 pm City of Joplin Requests Building  
Inspection Help from SEMA
- May 25<sup>th</sup> 10:19 am S.A.V.E. SW Regional  
Coordinator Deploys to Joplin
- May 26-28 S.A.V.E. Inspection Team Deployment



# S.A.V.E. Operations Center



Photo Credit: Ben Ross – S.A.V.E.

# S.A.V.E. Members in the Field



Photo Credit: Jeff Hower – S.A.V.E.

# Results

- More than 7,700 Structures Inspected



**UNSAFE**  
(DO NOT ENTER OR OCCUPY)  
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been found to be unsafe for occupancy. It is dangerous to enter or occupy this structure. No one should enter or occupy this structure until it is made safe by a licensed contractor.

Do not enter, occupy or use this structure until it is made safe by a licensed contractor. Entry may result in death or injury.

Inspector (I) Agency \_\_\_\_\_  
Date \_\_\_\_\_

Facility name and address \_\_\_\_\_

Do Not Remove, Alter, or Cover This Placard until Authorized by Issuing Authority.

- 36% Unsafe



**RESTRICTED USE**

Caution: This structure has been inspected and found to be damaged or structurally deficient.

Entry, occupancy, and use are restricted as indicated below:

☐ No entry or occupancy

☐ Entry restricted to structural repairs

☐ This structure is structurally sound

Inspector (I) Agency \_\_\_\_\_  
Date \_\_\_\_\_

Facility name and address \_\_\_\_\_

Do Not Remove, Alter, or Cover This Placard until Authorized by Issuing Authority.

- 6% Restricted Use



**INSPECTED**  
(LIFE SAFETY PROBLEMS IDENTIFIED)

This structure has been inspected and found to be safe for occupancy. No life safety problems were identified.

Inspector (I) Agency \_\_\_\_\_  
Date \_\_\_\_\_

Facility name and address \_\_\_\_\_

Do Not Remove, Alter, or Cover This Placard until Authorized by Issuing Authority.

- 58% Did Not Present Life Safety Problems

# After Action

“The S.A.V.E. Coalition’s quick response absolutely saved the City of Joplin. We were overwhelmed by the sheer magnitude of evaluating thousands of damaged structures... The City of Joplin, its citizens and I are forever grateful to the members of the S.A.V.E. Coalition – we couldn’t have done it without them. “

Steven Cope

Building and Neighborhood Improvement Supervisor  
City of Joplin



# Branson EF-2 Deployment

## March 3, 2012





# SHOW-ME RESPONSE

Registry of Volunteer  
Healthcare Professionals



## Disasters call for heroes...

## Answer the Call

[Home](#)

[Register Now](#)

[Contact Us](#)

[FAQ](#)

[Paper Registration](#)

[Forms](#)

[Recommended Training](#)

[The Call](#)

Welcome to Show-Me Response, the online registration system for volunteer health professionals.

This site is operated by the Missouri Department of Health and Senior Services and allows you to register as a volunteer willing to provide services during a disaster or emergency situation. **To register, you must be a Missouri resident and/or have a license in good standing with the Missouri Division of Professional Registration. Those licensed in other states may go to [www.phe.gov/esarvhp](http://www.phe.gov/esarvhp) to find the registry for that state.**

The registration system will collect basic information about you and your professional skills such as your license number, expiration date, certifications, and contact information. Please click on the [Register Now](#) button below to begin the registration process. If you have already completed the registration process or wish to return to an in-progress registration, please sign-in using the log in area on this page

**All information you provide is held under the highest degree of care and standards of security, confidentiality, and privacy. You may review the system's [privacy policy](#).**

Upon registration, your credentials will be checked. All reasonable efforts, in accordance with the federal guidelines for Emergency System for Advance Registration of Volunteer Health Professionals (ESAR-VHP), have been made to ascertain the credentials of individuals interested in becoming a volunteer.

Username:

Password:

[Log In](#)

[Forgot Username or  
Password?](#)

[Not Registered?](#)





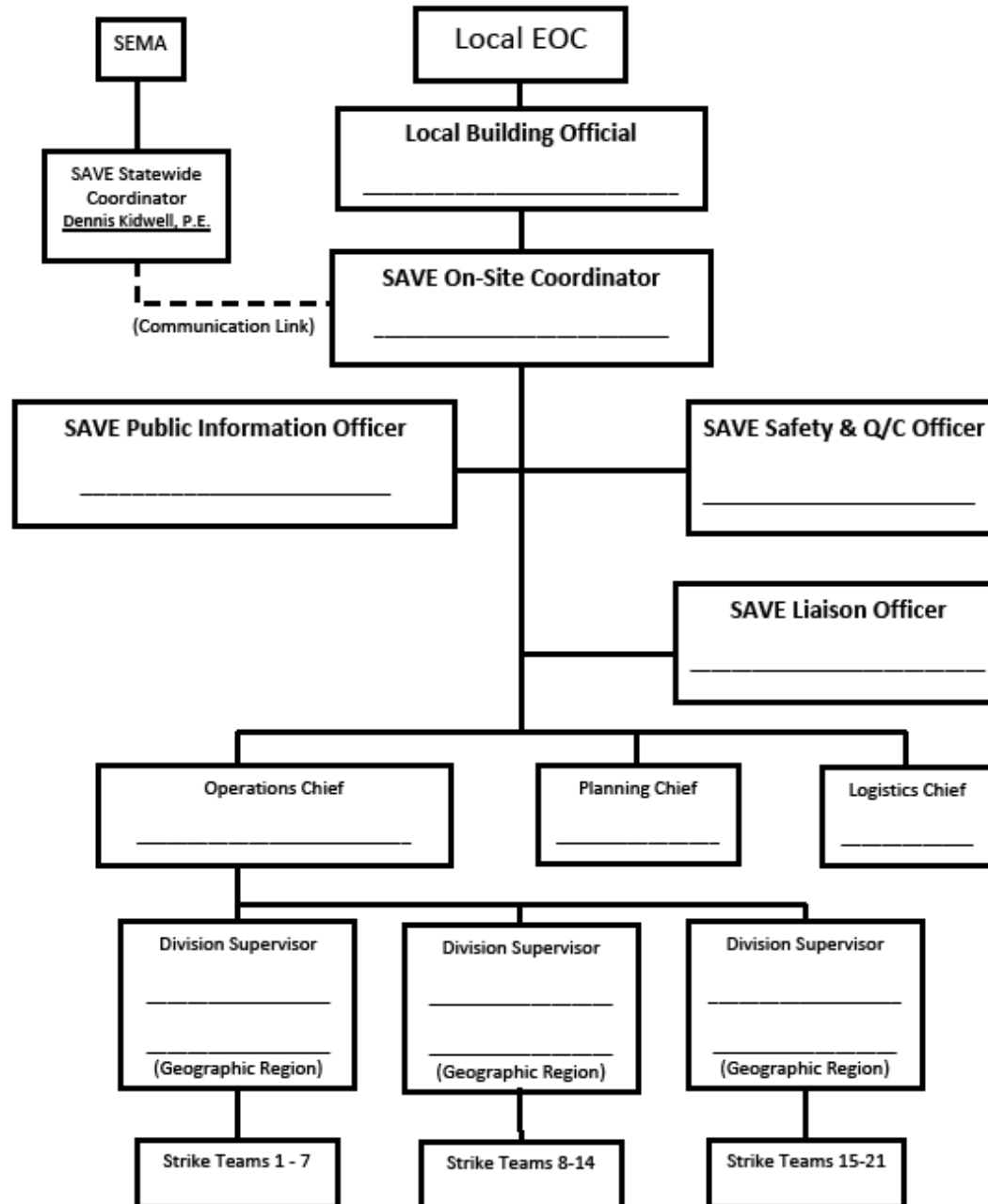
**FEMA**

Welcome to **IS-100.b**  
Introduction to the Incident  
Command System (ICS 100)



**Begin the Training**

## S.A.V.E. Coalition On-Site Command Structure





# Handheld GPS Data Collection



# Questions?



Photo Credit: Jeff Hower – S.A.V.E.