

DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY

NATIONAL URBAN SEARCH AND RESCUE RESPONSE SYSTEM

A Component of the National Response Framework
Emergency Support Function 9



NEW MADRID EARTHQUAKE RESPONSE ADDENDUM

To the
Response Concept of Operations Annex,
National US&R Response System Operations Manual,

April 2012

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**FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)**

Mission Statement

In coordination with the FEMA Regions, to assist state, local, and tribal governments, FEMA Urban Search and Rescue (US&R) resources, complete with the necessary tools, equipment, skills, and techniques, can be activated to respond to areas which have sustained damage from a catastrophic incident. The following actions outline the preparation and response procedures the FEMA National US&R Response System will undertake in preparation for and response to a New Madrid Seismic Zone (NMSZ) earthquake in addition to, or that deviate from, standard procedures as detailed in the National US&R Response System Operations Manual, Response CONOP Annex in order to meet the FEMA mission.

Note

Interpretations and clarifications of this document shall be made by, and any system maintenance issues shall be received by, the FEMA US&R Branch.

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**FEMA National US&R Response System – Operations Manual
 Response Concept of Operations Annex
 New Madrid Earthquake Response Addendum (Apr2012)**

MISSION STATEMENTI

NOTE.....I

INTRODUCTION..... 1

 GENERAL CONCEPT OF OPERATIONS 1

 PURPOSE..... 1

 CRITICAL ASSUMPTIONS 2

NEW MADRID EARTHQUAKE RESPONSE INCIDENT PHASES 3

PHASE 2: RESPONSE 3

 PHASE 2A: INITIAL RESPONSE 3

 PHASE 2B: DEPLOYMENT 4

 • INCIDENT SUPPORT TEAM(S) 4

 • TASK FORCE(S) 4

 • FIGURE 1.0 –FEMA US&R NEW MADRID EARTHQUAKE INITIAL RESOURCE ASSIGNMENT
 MAP 5

 • FEMA REGIONAL US&R RESPONSE SUPPORT REQUIREMENTS 5

 ○ REGION-IV..... 6

 ○ REGION-V 7

 ○ REGION-VI..... 8

 ○ REGION-VII..... 9

 • REQUESTING OR RECEIVING INTERNATIONAL US&R RESOURCES10

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INTRODUCTION

General Concept of Operations

The Federal Emergency Management Agency (FEMA) National Urban Search & Rescue (US&R) Response System Operations Manual, Response Concept of Operations (CONOP) Annex, and its New Madrid Earthquake Response Addendum are designed to ensure rapid, coordinated, and flexible Federal US&R support in response to a catastrophic earthquake in the NMSZ. FEMA US&R support will be provided at the request of a state or another Federal agency, at the direction of the Secretary of the Department of Homeland Security (DHS) or at the direction of the President of the United States.

Preparation for, response to, recovery from, and mitigation against catastrophic incidents requires a coordinated response led by FEMA and will involve federal, state, local, and tribal governments, the private sector, and nongovernmental organizations (NGOs) in support of FEMA Regional response efforts.

Purpose

This Addendum outlines the FEMA National US&R Response System initial actions, to be taken in support of a New Madrid earthquake response in addition to, or that deviate from, standard procedures as detailed in the National US&R Response System Operations Manual, Response CONOP Annex. These activities as described are for planning purposes and event specific operational requirements may dictate changes during a New Madrid earthquake response.

- This Addendum applies to a catastrophic NMSZ earthquake.
- This Addendum is not intended to replace existing documents that already detail FEMA HQ responsibilities (e.g., the National Response Framework [NRF] or Standard Operating Procedures [SOPs]).
- Consistent with the NRF and National Incident Management System (NIMS), FEMA will plan for the worst-case scenario, but will adapt its planning approach and operational response accordingly.
- FEMA coordinates Federal support under the authority of the Stafford Act to states or under the Economy Act to other Federal departments and agencies requesting assistance.
- One or more Federal Coordinating Officers (FCO) will be appointed for a Stafford Act declaration to execute Stafford Act authorities, including commitment of FEMA resources and the mission assignment of other federal departments or agencies.

**FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)**

Critical Assumptions

In addition to those contained within the National US&R Response System Operations Manual, Response CONOP Annex, the following assumptions are considered valid for a New Madrid earthquake response scenario:

- Local emergency personnel who normally respond to incidents may be among those affected and unable to perform their duties; and
- Anticipated impacts on transportation infrastructure will require US&R ISTs and task forces to be assigned to separate operational areas on each side (East & West) of the Mississippi River.

NEW MADRID EARTHQUAKE RESPONSE INCIDENT PHASES

The following Federal Interagency Response Plan – Earthquake (October 2010) incident/operational phases are incorporated into the National US&R Response System New Madrid EQ Addendum in addition to, or that deviate from, standard procedures as detailed in the National US&R Response System Operations Manual, Response CONOP Annex:

PHASE 2: RESPONSE

Phase 2a: Initial Response

National US&R Response System resources will be alerted and/or activated consistent with the National US&R Response System Operations Manual, Response CONOP Annex, to include the following New Madrid earthquake specific resource allocation plan:

- Given that their home locations are within the NMSZ, it is assumed that TN-TF1, MO-TF1 & IN-TF1 will be unavailable (at least initially) for federal activation due to being: out-of-service; or used as state / local resources;
- **R-IV** – One (1) US&R Incident Support Team (IST) & eight (8) Type I US&R task forces;
 - IST East (the IST on call for the month of the event); and
 - VA-TF1; MD-TF1; PA-TF1; VA-TF2; NY-TF1; FL-TF1; FL-TF2; and MA-TF1.
- **R-V** – Five (5) US&R IST Liaison Officers (LOFR) & one (1) Type I US&R task force;
 - IST East LOFRs (from the IST roster pool); and
 - OH-TF1.
- **R-VI** – One (1) US&R IST (West) & Seven (7) Type I US&R task forces.
 - IST West (the IST on call the following month); and
 - TX-TF1; NM-TF1; AZ-TF1; NV-TF1; UT-TF1; CA-TF6; and CA-TF5.
- **R-VII** – Five (5) US&R IST LOFRs & two (2) Type I US&R task forces;
 - IST West LOFRs (from the IST roster pool); and
 - NE-TF1; and CO-TF1.

**FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)**

Phase 2b: Deployment

Incident Support Team(s)

Due to the anticipated impacts of a New Madrid earthquake, one US&R IST will be assigned to each side (East & West) of the Mississippi River. In addition, in order to meet the needs of the four FEMA Regions separated in half by the Mississippi River, IST Liaison Officers (LOFR) will be assigned to Regions not receiving an IST. Those US&R LOFRs will function as a Division of the IST assigned to the same side of the River. (See Figure 1.0)

US&R ISTs will begin deployment travel within two hours of activation:

- To pre-assigned Initial Operating Facility (IOF) or Joint Field Office (JFO) reporting locations at the following state emergency operations centers:
 - **R-IV** – IST East, 3042 Sidco Drive, Nashville, TN 37204;
 - **R-V** – IST East LOFRs, 2200 S. Dirksen Parkway, Springfield, IL 62703;
 - **R-VI** – IST West LOFRs, Building 9501, Camp Joseph T. Robinson, North Little Rock 72199, AR; and
 - **R-VII** – IST West, 2302 Militia Drive, Jefferson City, MO 65101.

Task Force(s)

In order to meet the needs of the four FEMA Regions in the NMSZ, initial task force Regional deployment assignments are made based on Mid-Atlantic Earthquake (MAE) Center structural damage projections for a New Madrid earthquake. (See Figure 1.0)

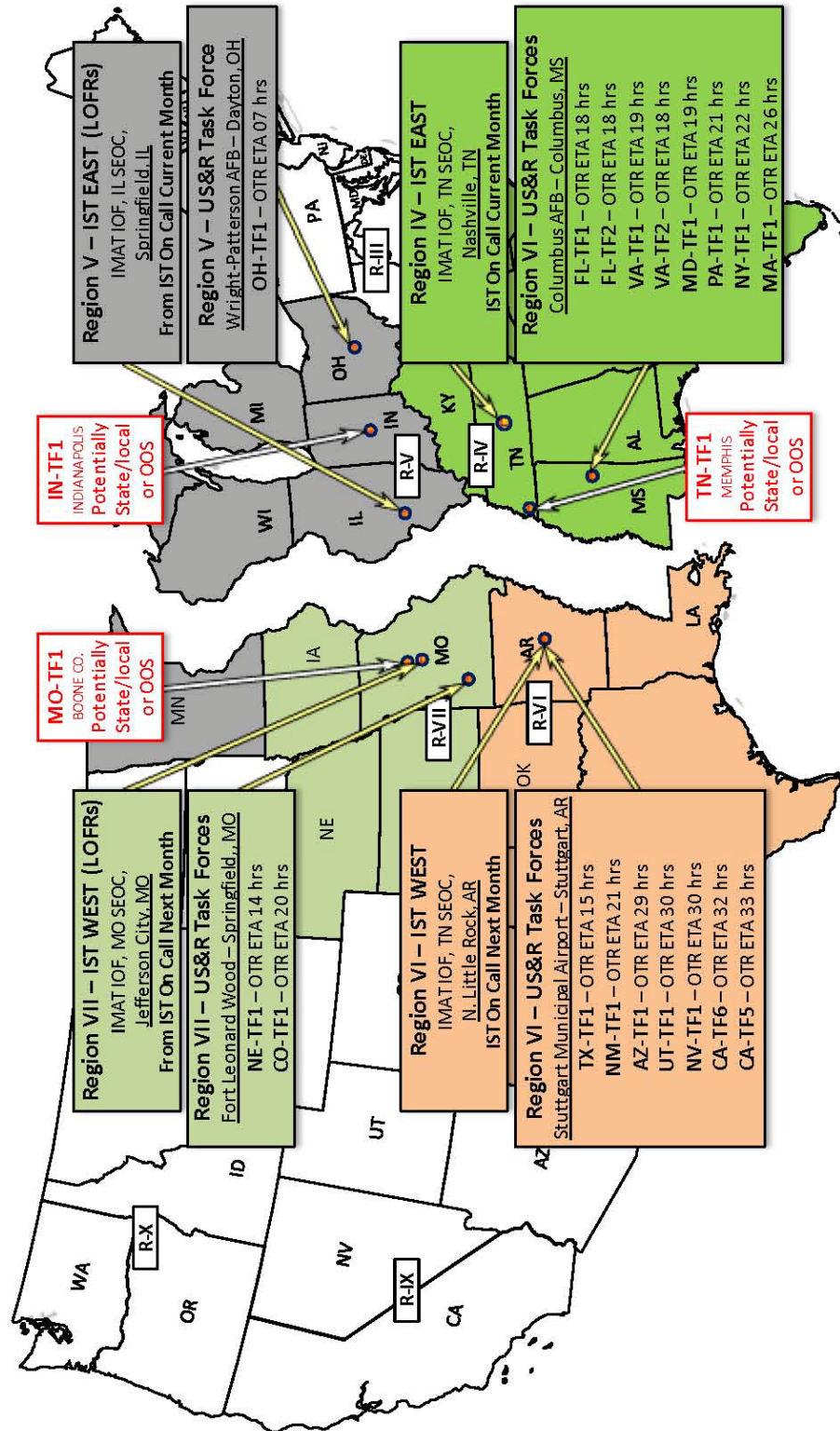
US&R task forces will deploy within four hours of activation:

- Over-the-Road (OTR), per standard procedures as detailed in the US&R Response CONOP Annex, to the following pre-assigned federal Incident Support Bases (ISBs):
 - **R-IV** – Columbus AFB, 108 Similer Blvd, Columbus, MS 39710
 - **R-V** – Wright Patterson AFB, Gate 15a, McClerron Memorial Skyway, Dayton, OH 45433
 - **R-VI** – Stuttgart Municipal Airport, Stuttgart, AR 72160; and
 - **R-VII** – Ft. Leonard Wood, Missouri Ave., Ft. Leonard Wood, MO.

Figure 1.0 –FEMA US&R New Madrid Earthquake Initial Resource Assignment Map



Federal Emergency Management Agency
 National Urban Search & Rescue Response System
 New Madrid Earthquake – Initial US&R Resource Assignment Plan



**FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)**

FEMA Regional US&R Response Support Requirements

Utilizing the general US&R response communications and logistical support requirements as detailed in the US&R Response CONOP Annex, the following planning assumptions are based on two ISTs and 18 Type I task forces, deployed among four FEMA Regions. The Region specific support requirements of US&R personnel and vehicles during a 14-day New Madrid EQ response mission include:

Region-IV

The following Region IV planning assumptions are for the communications support (upon deployment) and logistical support (after the first 72 hours) requirements during a 14-day New Madrid EQ response mission, to support 700 persons (consisting of one (1) US&R IST (35 persons), eight (8) Type I US&R task forces (640 persons), and twenty-nine (29) support personnel) and 164 vehicles for 11 days:

- MREs – 24,000;
- Bottled Water – 4,400 liters;
- Ice – 900 lbs each day;
- Water for decontamination – 100,000 gals;
- Area for nine (9) BoOs – 36,000 sq/ft;
- Catering, hygiene and laundry for each BoO – Nine (9);
- 75-150 kW generator with power distribution system for each BoO – nine (9);
- 1,000 watt inverter generators (for communications) – 36;
- 2,000 watt inverter generators (for communications) – 18;
- Fuel supply and distribution (50% gasoline, 50% diesel fuel) – 500,000 gallons;
- NGA DMIGS to IST – One (1);
- Force protection – Minimum of eighteen (18) personnel;
- MSAT systems – Minimum of 20;
- Iridium satellite phones – Minimum of 26;
- MERS IST support;
 - Voice, Video and Data for 20; and
 - Tower trailer, tow vehicle and operators – One (1).
- US&R TCV – One (1) from Herndon, VA warehouse;
- US&R Tower Trailer w/tow vehicle – One (1) from Herndon, VA warehouse; and
- ACOMs (no CDL required) – Four (4) from US&R System.

FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)

Region-V

The following Region V planning assumptions are for the communications support (upon deployment) and logistical support (after the first 72 hours) requirements during a 14-day New Madrid EQ response mission, to support 95 persons (consisting of US&R IST LOFRs (5 persons), one (1) Type I US&R task force (80 persons), and ten (10) support personnel) and 23 vehicles for 11 days:

- MREs – 3,200;
- Bottled Water – 4,400 liters;
- Ice – 100 lbs ice each day;
- Water for decontamination – 10,000 gals;
- Area for one (1) BoO – 4,000 sq/ft;
- Catering, hygiene and laundry for BoO – One (1);
- 75-150 kW generator with power distribution system for BoO – One (1);
- 1,000 watt inverter generators (for communications) – Four (4);
- 2,000 watt inverter generators (for communications) – Two (2);
- Fuel supply and distribution (50% gasoline, 50% diesel fuel) – 55,000 gallons;
- NGA analysts with equipment to IST – Two (2);
- Force protection – Minimum of four (4) personnel;
- MSAT systems – Minimum of seven (7);
- Iridium satellite phones – Minimum of 12; and
- MERS IST support;
 - Voice, Video and Data for five (5); and
 - Tower trailer, tow vehicle and operators – One (1).

FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)

Region-VI

The following Region VI planning assumptions are for the communications support (upon deployment) and logistical support (after the first 72 hours) requirements during a 14-day New Madrid EQ response mission, to support 620 persons (consisting of one (1) US&R IST (35 persons), seven (7) Type I US&R task forces (560 persons), and twenty-nine (29) support personnel) and 145 vehicles for 11 days:

- MREs – 21,000;
- Bottled Water – 35,000 liters;
- Ice – 800 lbs each day;
- Water for decontamination – 90,000 gals;
- Area for eight (8) BoOs – 32,000 sq/ft;
- Catering, hygiene and laundry for each BoO – Eight (8);
- 75-150 kW generator with power distribution system for each BoO – Eight (8);
- 1,000 watt inverter generators (for communications) – 36;
- 2,000 watt inverter generators (for communications) – 18;
- Fuel supply and distribution (50% gasoline, 50% diesel fuel) – 440,000 gallons;
- NGA DMIGS to IST – One (1);
- Force protection – Minimum of sixteen (16) personnel;
- MSAT systems – Minimum of 19;
- Iridium satellite phones – Minimum of 24;
- MERS IST support;
 - Voice, Video and Data for 20; and
 - Tower trailer, tow vehicle and operators – One (1).
- US&R TCV – One (1) from College Station, TX; and
- ACOMs (no CDL required) – Four (4) from US&R System.

FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)

Region-VII

The following Region VII planning assumptions are for the communications support (upon deployment) and logistical support (after the first 72 hours) requirements during a 14-day New Madrid EQ response mission, to support 175 persons (consisting of US&R IST LOFRs (5 persons), two (2) Type I US&R task forces (160 persons), and ten (10) support personnel) and 41 vehicles for 11 days:

- MREs – 5,800;
- Bottled Water – 9,700 liters;
- Ice – 200 lbs each day;
- Water for decontamination – 20,000 gals;
- Area for two (2) BoOs – 8,000 sq/ft;
- Catering, hygiene and laundry for each BoO – Two (2);
- 75-150 kW generator with power distribution system for each BoO – Two (2);
- 1,000 watt inverter generators (for communications) – Eight (8);
- 2,000 watt inverter generators (for communications) – Four (4);
- Fuel supply and distribution (50% gasoline, 50% diesel fuel) – 110,000 gallons;
- NGA analysts with equipment to IST – Two (2); and
- Force protection – Minimum of six (6) personnel;
- MSAT systems – Minimum of nine (9);
- Iridium satellite phones – Minimum of nine (9); and
- MERS IST support;
 - Voice, Video and Data for five (5); and
 - Tower trailer, tow vehicle and operators – One (1).

**FEMA National US&R Response System – Operations Manual
Response Concept of Operations Annex
New Madrid Earthquake Response Addendum (Apr2012)**

Requesting or Receiving International US&R Resources

During a New Madrid earthquake response, the request for, or offer and acceptance of, international US&R resources should be anticipated. In addition to the roles, responsibilities and actions related to requesting and receiving international US&R assistance, as detailed in the US&R Response CONOP Annex, all international teams whose offers of US&R assistance are accepted will be directed to land either in:

- The New Madrid eastern area of operations:
 - Aerial Port of Debarkation (APOD) to be determined; and
 - Personnel from VA-TF1 will be activated to establish the RDC.
- Or the New Madrid western area of operations:
 - APOD to be determined; and
 - Personnel from CA-TF2 will be activated to establish the RDC.