U.S. Army Corps of Engineers
Disaster Response Missions, Roles & Readiness

Eric D. (Ric) Hines, PE
February 2012
Briefing Overview

- USACE Background
- Emergency Roles and Responsibilities
- USACE Missions
- USACE / FEMA Coordination and Mission Execution
- Remedial Action Program
U.S. Army Corps of Engineers
Background
Civil Works
$12.8 Billion
- 24,000 personnel
- Navigation
- Hydropower
- Flood Control
- Shore Protection
- Water Supply
- Regulatory
- Recreation

Military Programs
$20.1 Billion
- 10,000 personnel
- Military
- Construction
- Contingency Ops
- Installation
- Support
- International / Interagency
- Support

Contractors execute
65% of architect-engineer
services
and 100% of construction

- Engineer Research and Development Center
  - Seven diverse research laboratories
  - $700 M annual research program

HQ
9 Divisions
45 Districts

Engineer Commands

45 Districts
9 Divisions
Private Sector Partnerships

Construction Contractors:
- Unlimited Capability
- Perform 100% of Civil Works & Military Construction
- ~300K Daily

34,000 Corps Employees

Sponsors, Federal Agencies, Associations

Architect-Engineer Firms (5,000 Employees)
Perform over 65% of Planning & Design

BUILDING STRONG®
Emergency Roles and Responsibilities
U.S. Army Corps of Engineers
Emergency Response

DOD Support

DHS/FEMA Support

USACE Authorities
# Public Law 84-99: Flood Control and Coastal Emergencies

## Prepare: Advance Measures
- Imminent threat / Unusual flooding
- Temporary in nature
- Protects life and property

## Respond: Floodfight
- Save life and property
- Temporary in nature
- Emergency Debris
- Emergency Infrastructure

## Recover: Levee Rehabilitation
- Levees in Federal Program

## Mitigate
- Identify mitigation opportunities
- Intergovernmental TF

*An Emergency Levee Protects the City at Second Street during the 2001 flood.*
National Response Framework

Coordinating Agency
ESF#3 Public Works and Engineering

Primary Agency
ESF#3 Public Works and Engineering

Support Agency
ESF#6
ESF#9
ESF#14
Key Support Agencies for ESF#3

Supporting Agencies for Public Works and Engineering

Department of Defense
Department of Energy
Department of Health and Human Services
Department of Homeland Security
Department of Transportation
Environmental Protection Agency
Department of Interior
USACE Missions
History of USACE
Pre-Scripted Mission Assignments (PSMAs)

- 1999: First USACE PSMAs
- Pre-Negotiated Scope of Work
- Agreement on Costs
- Save time on mobilization and execution
Time

Needs

Saving Time!

Assistance

Relief

Disaster

Time
Hurricane Ike Debris Model
Landfall Plus About 16 Hours

Post Landfall Debris Model Results
Texas - 36,229,000 Yards
Louisiana - 888,000 Yards

Model results per County on following page

This model is based on a Category 3 storm making landfall near Galveston, TX.

Information provided on this page displays a Category 3 storm making landfall near Galveston, TX. These projections are based on information from the NHC (1700 EDT 09/13/2008) forecast. The amount of debris forecast is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.endlink.usace.army.mil or contact Louisville District staff at DLL-CEURL-GOR@usace.army.mil

US Army Corps of Engineers
All Rights Reserved

For Planning Purposes Only!
Pre-Declaration: Mobilization of Equipment

- Deployable Tactical Operation Center
- Satellite Communications
- Generator
- Rapid Response Vehicle
Pre-Declaration: Mobilization of Contractors

- Immediate response
- Maximum local hiring and subcontracting
- Pricing (known & stable)
- Costs reduced
- Partners with Private Sector
- Improves performance
- Standardizes contracts
Post Declaration Response

Temporary Emergency Power

Water / Ice / Commodities Distribution
Post Declaration Response

Support to Search and Rescue

Debris Clearance
Post Declaration Recovery

Critical Public Facilities

Temporary Roofing
Post Declaration Recovery

Critical Public Facilities
Post Declaration Recovery

Temporary Housing
**Actions**

- Scope Mission
- Determine Roles and Responsibilities
- Develop Debris Management Plan
- Award / Task Contractor
- Debris Removal from Curbside
- Reduction and Disposal
- Demolition

**Post Dec Recovery: Debris Management**

**Curbside and Private Property Debris Removal**

**Demolition**

<table>
<thead>
<tr>
<th>Feb 06</th>
<th>Mar 06</th>
<th>Apr 06</th>
<th>May 06</th>
<th>Jun 06</th>
<th>Jul 06</th>
<th>Aug 06</th>
<th>Sep 06</th>
<th>Oct 06</th>
</tr>
</thead>
</table>

BUILDING STRONG®
Sub-Taskings to Other Agencies

- **EPA:** Water / Wastewater Treatment / Hazardous Debris
- **Department of Interior:** Temporary Roofing / Debris Management
- **Coast Guard:** Vessel Assistance
- **Navy Supervisor of Salvage:** Obstructions in Waterways
USACE / FEMA Coordination and Mission Execution
Response Structure

- National Response Coordination Center
- Regional Response Coordination Center
- Joint Field Office
- Chief of Engineers
- Division Commander
- Division Commander Forward
Planning and Response Teams (PRT)

- Water (2)
- Ice (2)
- Commodities (7)
- Emergency Power (7)
- Temp Roofing (5)
- Temp Housing/CPF (7)
- Debris Removal (7)
- Contaminated Debris (1)
- Infrastructure Assessment (4)

Deployment within 6 hours

Supported Division

Disaster Site

Functional Teams (i.e. Logistics, Real Estate, Resource Management, etc.)
USACE / FEMA
Remedial Action Program
Remedial Action Program

- Problems Defined and Courses of Action Developed
- SOPs Revised
- Training
- Exercises and Events
- Evaluation: Data Collection/Initial Analysis
- Remedial Action Plan Teams Established
- Concepts and Plans Developed
- Issues
- Lessons

BUILDING STRONG®
SOP & Field Operational Guides

Overview: “Fact Sheet” with concise description of capability, team and resources.

Standard Operating Procedure: A reference document, detailing the procedures for performing a function (who deploys, when, where and how organize).

Field Operations Guide: A durable pocket or desk guide, containing essential nuts-and-bolts information needed to perform specific assignments or functions.
Questions?

Ric Hines
eric.d.hines@usace.army.mil
(402) 697-2624