Capabilities Briefing for Florida Division of Emergency Management

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Tiered Response: “All Disasters are Local”

- Incident
- Local Government: Individual, Family, Community
- State Government: State Response or Support
- Regional Support: Federal Response or Support
- Federal Support: Federal Support
USACE Disaster Response

U.S. Army Corps of Engineers
Civil Authorities

Public Law 84-99
(Flood Control Act of 1941)
Disaster Preparation
Emergency Operations
Rehabilitation
Water Assistance
Advance Measures
Hazard Mitigation

Civil Works
Authorities
Reservoir Operations
Dam / Lock Operations

Support to
Department of Homeland Security
and
Federal Emergency Management Agency

Stafford Act
(National Response Framework)
Disaster Preparation
Coordinating Agency ESF #3

Public Works and Engineering
Primary Agency ESF #3
Support Agency ESF #6, ESF #9, ESF #14

Support to the
Department of Defense

Domestic Support to
NORTHCOM / ARNORTH

Overseas Operations
Iraq / Afghanistan
Civil - Military Engagement

Field Force Engineering
USACE Authorities and Activities
PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation & Insp.
- Water Assistance
- Advance Measures
- Hazard Mitigation

USACE Provides:
- Emergency Technical & Direct assistance in response to flood and coastal storm.
- Provided upon request for assistance by States.
- Assistance supplements State and local actions & capabilities

A Comprehensive Flood Response Infrastructure
USACE Authorities and Activities
PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation & Insp.
- Water Assistance
- Advance Measures
- Hazard Mitigation

- Planning for Quick and Effective Response
- Training
- Stockpiling Supplies and Critical Flood Fight Materials
- Public Assistance Including Liaison, Coordination, and Inspections
Disaster Preparedness
Equipment & Supplies

- Flood Fight Supplies
  - Pumps
  - Sheets of Polyethylene
  - Sandbags
  - Expedient Flood Fight Projects

- Equipment and supplies will not be issued for stockpile to any non-USACE activity
Disaster Preparedness
Pumps

- Types of Pumps
  - Crisafulli – 8” 12” & 16”
  - Gas – 4”
  - Diesel
    - 4” 6” & 8”
Disaster Preparedness
Sandbag Policy

- Local supply
- USACE supplements local & state
- USACE NOT first resort
Disaster Preparedness
Expedient Flood Fight Products

Port-A-Dam

RDFW

HESCO
USACE Authorities and Activities

PL 84-99

- Disaster Preparedness
- **Emergency Operations**
- Rehabilitation & Insp.
- Water Assistance
- Advance Measures
- Hazard Mitigation

**Flood Fighting**
- Technical Assistance
- Rescue Operations
- Furnishing Materials
- Contracting for Emergency Construction

**Post Flood Response**
- Emergency Debris Removal
- Temporary Restoration of Critical Transportation Routes and Public Services and Utilities

**Field Investigation & Reconnaissance of Flood Potential**
- After Action Review & Reporting
Response Operations
Flood Response

- Criteria for assistance:
  - EOC Activation / Declaration
  - Flood stage or higher
  - Local resources are fully employed
  - Request through State
  - Temporary in nature

- Save human life or improved property
Response Operations
Flood Response

Technical Assistance

- Flood fight review and recommendations
- Examples
  - Guidance
  - Inspection
  - Data analysis and evaluation
Response Operations
Flood Response

Direct Assistance
- Supplies and equipment to non-Federal interests
- Rescue operations
- Direct flood fight operations
- Emergency contracts

Removal of emergency flood fight measures is a local responsibility

Agricultural Levees are limited to technical assistance only
Post Flood Response

- Provides continuity of Federal response operations
- Limited to major flood events, hurricanes, and coastal storms.
- Governor sends written request
- Ten-day limit from receipt of governor’s request
  - NOT EXTENDABLE UNDER ANY CIRCUMSTANCE
USACE Authorities and Activities PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation & Insp.
- Water Assistance
- Advance Measures
- Hazard Mitigation

• Repair active flood damage reduction system.
• Repair any Federally Constructed hurricane or shore protection system.
• Initial Eligibility Inspections
• Continuing Eligibility Inspections
• Interagency Levee Task Force
Rehabilitation & Inspection Program

Inspections

- Preparedness phase
- Ensures minimum acceptable performance levels for eligibility

Types of Inspections
- Initial Eligibility
- Continuing Eligibility (routine & periodic)
Rehabilitation & Inspection Program Sponsors

- Legal Subdivision of a State or State Government
- Local Unit of Government
- Qualified Indian Tribe or Tribal organization
- Alaska Native Corporation
- State Chartered Organization
Eligible for inclusion in RIP:

- Federally constructed, locally maintained
- Non-federally constructed, locally maintained
- Pump stations integral to the FDRS
- Federally authorized and constructed Hurricane Shore Protection Project (HSPP)
Rehabilitation & Inspection Program
IEI Process

- Written request
- EM requests funds through MSC
- Field inspection
- Inspection report within 30 days to Public Sponsor
Rehabilitation & Inspection Program
Continuing Eligibility Inspections (CEI)

- Used to Verify FDRS continues to meet Acceptable performance levels
- Inspection criteria:
  - EP 500-1-1 (Non-Federal)
  - ER 1130-2-530 (Federal)
  - Levee Owner’s Manual
  - Levee Inspection Guide
Rehabilitation & Inspection Program Repair Policy

- Active projects damaged by a flood or coastal storm
- Deficient / deferred items not included
- Pre-disaster condition
- Cost share:
  - Federal FDRS: 100% Federal
  - Non-Federal FDRS: 80% Federal / 20% Sponsor
Rehabilitation & Inspection Program
Repair Policy

- Damages must exceed $15,000 (Local Maint.)
- Favorable Benefit Cost Ratio (BCR) is required
- Cooperation Agreement required
- Land, easements, rights-of-way, relocations and borrow are the public sponsors’ responsibility to provide at no cost to the Federal Government
Rehabilitation & Inspection Program

Repair Process

- Damage Occurs
- Public notice issued
- Sponsor request received
- Prioritization
- Verify project status (active / inactive)
- Request funds for Damage Investigation, preparation of Project Investigation Reports (PIR)
- Assemble district rehabilitation team
- Develop contracting strategy
USACE Authorities and Activities PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation

**Water Assistance**

- Provide Clean Water Supply Due to Water Source Contamination.
- For Assistance Due to Droughts:
  - Covers Well Drilling (Reimbursable)
  - Transportation (Not Supply) of Water Resources at Federal Expense

- Advance Measures
- Hazard Mitigation
Water Assistance
Contaminated Water Source

- Contamination must be EPA listed, identified by responsible public health official, or otherwise specifically identified
- Water use MUST be for minimal human use
- Assistance limited to 30 days
Water Assistance
Drought

- Drought Declaration must be issued by ASA(CW) or DCW
- Water for minimal human use only
- Assistance limited to 30 days
USACE Authorities and Activities
PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation
- Water Assistance
- Advance Measures
  - Preventative Temporary Works Executed Prior to Predicted Unusual Flooding
  - Examples:
    - Creating a Ring Levee Around Critical Facilities
    - Adding Height or Reinforcing Existing Levees
- Hazard Mitigation
Advance Measures
Purpose

- Advance Measures are performed due to an imminent threat of unusual flooding for protection against loss of life and damages to urban areas and/or public facilities.

- Advance Measures assistance may only be provided prior to a flood, a hurricane or coastal storm, or a storm on an inland body of water or a closed basin flood.
Advance Measures Policy

- Temporary standard of construction
  - Exception: Permanent standard may be used if more cost effective

- Cost sharing:
  - 100% Federally funded for investigation and design
  - Temporary construction: 100% Federal
  - Permanent construction: 75% Federal / 25% local

- Project Information Report (PIR) required
- Cooperation Agreement (CA) required
Advance Measures Process

- Written request received from Governor
- Investigation to determine if USACE advance measures assistance is appropriate
- If deemed appropriate, prepare PIR
- PIR approved by HQ USACE
- Develop and execute Cooperation Agreement (CA)
USACE Authorities and Activities
PL 84-99

- Disaster Preparedness
- Emergency Operations
- Rehabilitation
- Water Assistance
- Advance Measures
  - Identify Mitigation Opportunities
  - Establish Framework for Recovery
  - Silver Jackets Program
- Hazard Mitigation
USACE National Response Framework Responsibilities

Coordinating Agency
ESF#3 Public Works and Engineering

Primary Agency
ESF#3 Response

Support Agency
ESF#6 Mass Care and Housing
ESF#9 Search and Rescue
NRF Operational Concept

Post-event

- **HQUSACE UOC**
- **DIVISION EOC**
- **DISTRICT EOC**
- **RFO**
- **EFO**

**Forward Support Elements for Debris, Housing, & Roofing**

**Staging Operations**

**Joint Field Office**

**ESF#3**

**National Response Coord Center**

- **FEMA**
- **DCO**
- **NRCC**

**Regional Response Coord Center**

- **FEMA**
- **DCO**
- **RRCC**

**State EOC**

- **FEMA**
- **DCO**
- **IMAT**

**Select Emergency Support Functions - ESF’S**

Limited to Essential Personnel

COORDINATING (DEFENSE OFFICER)

Select Emergency Support Functions - ESF’S

Limited to Essential Personnel

COORDINATING (DEFENSE OFFICER)

Emergency Response Team – Advance (ERT-A)

NRF Operational Concept

Post-event
SUPPORT TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY

- FEMA authorizes USACE through Mission Assignments/Funds.

- USACE is responsible for life cycle mission management including planning, funds management, and contract management.
Operation Section Organization

Operations Section

MA Manager

Human Services Branch

Disaster Communications Branch

Infrastructure Branch

Air Operations Branch

Emergency Services Branch

Mitigation Branch

Geographic Organizations

JOC

USACE works under
PLANNING AND RESPONSE TEAMS (PRT)

- READINESS
  - Ice
  - Water
  - Emergency Power
  - Debris Removal
  - Critical Public Facilities
  - Temporary Housing
Temporary Emergency Power

- Install/Maintain FEMA generators at critical Facilities and utilities
- Assess, haul, install, maintain, remove, make ready for storage

Largest mission to date:
- Hurricane Katrina, LA
- 2,403 locations assessed
- 918 generators installed
Water and Ice Commodities

• Procure water and ice nationally
• Deliver commodities to state staging area
• Provide Technical Assistance for distribution

Largest mission to date:
• Hurricane Season 2005
• 11,284 trucks loads
Debris Management

- Provide services to remove, reduce and dispose of eligible debris
- Provide Technical Assistance, Federal, State & Local

Largest mission to date:
- Hurricane Katrina, LA
- Estimated 68.7M Cubic Yards
Support to Urban Search and Rescue

- Provide training to Search and Rescue Structures Specialists
- Maintain cadre of Structures Specialists to augment national teams

Responses:
- Oklahoma City
- World Trade Center
- Pentagon
- Internationally
Temporary Roofing

- Provide services to install FEMA furnished plastic sheeting on damaged roofs to provide temporary shelter

Largest mission to date:
- Hurricanes Katrina/Rita
- Mission 194,000+ roofs installed
Critical Public Facilities and Temporary Housing

- Provide services to design and construct temporary public facilities and temporary housing

- Includes schools, police and fire stations, local government offices, trailer installation.

Largest mission to date:

- Installed 1,029 temporary buildings and 2,500 trailers following Hurricane Katrina.
Deployable Tactical Operation System

Deployable Tactical Operation Center

Satellite Communications

Generator

Rapid Response Vehicle
Mission Models

Hurricane Ike Debris Model
Landfall Plus About 16 Hours

For Planning Purposes Only!

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 (1900 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.aturl.ku.edu/ or contact Louisville District staff at DUL-CEURL-GIS@usace.army.mil

Hurricane Ike Debris Model

Generated By: Smithsonian/Dratrick, LRL 1900 EDT 09/13/2008
Sources: HURREVAC URL-DEBRIS

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BUILDING STRONG®
Pre-Awarded Contracts

- Immediate response
- Maximum local hiring and subcontracting
- Pricing (known & stable)
- Costs reduced
- Partners with Private Sector
- Improves performance
- Standardizes contracts
PRT VIDEO OF CAPABILITIES
Questions / Comments