TEXAS GULF COAST HURRICANE RESPONSE

Society of American Military Engineers

18 June 2012

Dallas/Fort Worth Post

TDEM

US Army Corps of Engineers®

FEMA
AGENDA

- 0830 – 0845 Introductions/Admin
- 0845 – 1000 Overview/ Phase 1/2
- 1000 – 1015 BREAK
- 1015 – 1100 Phase 3/4/5
- 1100 – 1115 Contracting Registry
- 1115 - 1130 Discussion/Closing Remarks
Hurricane Season

- The Atlantic Hurricane season runs from 1 June and ends 30 November.

- The most active period for the Atlantic Basin (Cape Verde season) begins mid-August and runs through late September, the peak being September 10th.
NOAA 2012 Atlantic Hurricane Season Outlook

• The National Oceanic and Atmospheric Administration (NOAA) Atlantic Hurricane Season Outlook was issued on 24 May 2012.

• NOAA estimates a 70% probability for each of the following ranges of activity during 2012:
  
  ➢ 9 – 15 Named Storms
  ➢ 4 – 8 Hurricanes
  ➢ 1 – 3 Major Hurricanes

2011 Season Forecast

 ➢ 12-18 Named Storms
 ➢ 6-10 Hurricanes
 ➢ 3-6 Major Hurricanes
Historical Gulf Coast Strikes

Coastal Strikes 1961-2008

US Army Corps of Engineers®
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FEMA
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National Response Framework

• How the Nation conducts all–hazards response

• Natural disasters, technological emergencies, national emergencies, and terrorism

• 15 Emergency Support Functions (ESFs)

• FEMA coordinates response support from across Federal Government by calling up as needed one or more ESFs

• US Army Corps of Engineers (USACE) assigned as coordinator for ESF#3 “Public Works and Engineering”
National Response Framework
Emergency Response Functions

ESF #1 - Transportation (Department of Transportation)
ESF #2 - Communications (Department of Homeland Security)
**ESF #3 - Public Works and Engineering (Department of Defense /U.S. Army Corps of Engineers)**
ESF #4 - Firefighting (Department of Agriculture/Forest Service)
ESF #5 - Emergency Management (Department of Homeland Security)
ESF #6 - Mass Care, Emergency Assistance, Housing, and Human Services (Department of Homeland Security)
ESF #7 - Resource Support (General Services Administration)
ESF #8 - Public Health and Medical Services (Department of Health and Human Services)
ESF #9 - Search and Rescue (Department of Homeland Security)
ESF #10 - Oil and Hazardous Materials Response (Environmental Protection Agency)
ESF #11 - Agriculture and Natural Resources (Department of the Agriculture)
ESF #12 - Energy (Department of Energy)
ESF #13 - Public Safety and Security (Department of Justice)
ESF #14 - Long-Term Community Recovery and Mitigation (Department of Homeland Security)
ESF #15 - External Affairs (Department of Homeland Security)
USACE National Response Framework Missions

- Water / Ice
- Temporary Emergency Power
- Debris Removal and Disposal
- Temporary Roofing
- Temporary Housing Support
- Structural Safety Assessment
- Support to Urban Search and Rescue
- Infrastructure Assessment and Emergency Repair
- Technical Assistance

- Support to ESF 3  
- Support to ESF 6  
- Support to ESF 9  

TDEM  
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Gulf Coast Historical Overview

- Overview video
Hurricane Madison

- Madison Video
Discussion

• Order of Discussion

• Texas Division of Emergency Management (TDEM)
• Federal Emergency Management Agency (FEMA)

• Southwestern Division (SWD)
  • Galveston District (SWG)
  • Fort Worth District (SWF)
  • Tulsa District (SWT)

• Private Sector Discussion
Madison is now classified as a strong category 2 hurricane with winds of 100 mph. It is located due south of Puerto Rico where high seas, intense winds, and heavy rain have been reported.

Key Discussion Points:
- Priorities - Top 3
- Actions - In support of priorities
- Resources - In support of actions
**SWD HQ**

- SWD continues to Monitor storm track. Initiates Regional Calls with SWG EOC.
- SWD EOC at Level I: Normal Operations
- Participate on conference calls with HQUSACE, FEMA and TDEM.
- BPT Deploy ESF#3 TL/ATL to RRCC and IOF (IMAT) as directed by FEMA

**FEMA R6**

- RRCC Activates; Alerts specific ESFs
- Coordinate Regional Conference Calls
- Alert and deploy Incident Management Assistance Team (IMAT) to Austin SOC.
- Pre-dec MAs (Power/Commodities)

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**Galveston District**

- EOC activated - to Level II: (Emergency Watch)
  - Monitor Storm track and prepare for potential Texas Coast Strike
  - Be prepared for a Texas Strike
  - BPT request to deploy SWF for potential handoff of FEMA Missions
  - BPT request Commodities team replacement
  - BPT request additional teams per Pre-dec MA.

**Fort Worth District**

- EOC at Level I: Normal Operations (Monitoring)
  - Monitor situation and provide updates to Command Staff, EOC cadre, Debris PRT and RRV06 team.
  - BPT deploy ADVON Team to San Antonio for potential mission transition from SWG.
  - Verify Debris ACI contracts.
  - Coordinate with SWG.

**Tulsa District**

- EOC at Level I: Normal Operations (Monitoring)
  - Monitor Storm track and prepare teams for potential deployment
  - BPT deploy Power PRT Management Cell to IOF as required. Notify Pittsburg District of potential power mission.
  - Verify ACI contracts and 249th and Power Team movements.

**Little Rock District**

- EOC at Level I: Normal Operations (Monitoring)
  - Monitor Storm track and prepare teams for potential deployment
  - BPT deploy Temporary Roofing Management Cell to IOF as required.
The National Hurricane Center reports that Madison is now a category 3 hurricane with winds of 115 mph. Madison has made a gradual shift northwest and is currently moving at 5 mph. A hurricane watch is issued for Jamaica. The 5-day forecast shows a Category 4 hurricane threatening the Texas, Louisiana or Mississippi coast.

Key Discussion Points:
- Priorities - Top 3
- Actions - In support of priorities
- Resources - In support of actions
SWD HQ
- Coordinate Deployment of Power/Commodities PRT to FEMA ISB
- Elevate EOC to Level II: Emergency Watch or Level III
- If required, SWD TF Pacesetter to State EOC/IOF
- Deploy assets to ISB, OIF, Area Office prior to landfall

TDEM
- EOC elevated to Level II
- Begin evacuation contra-flow
- Request pre-landfall dec

SWD – Texas Response
L-96 – L-48
Phase 1: Activation Phase
Phase 2: Deployment Phase

FEMA R6
- RRCC activated to Level 2, (24/7)
- Coordinate with Texas on Pre-Landfall declaration request.
- Pre-position personnel and equipment for rapid response
- Alert and deploy remaining ESFs to RRCC.
- Request USACE Hurricane Models for potential impact
- Coordinate commodities and generators arrival at ISB Randolph.

Galveston District
- EOC remains at Level III: (partial staffing extend hours 18/7) continue monitoring and providing situational updates.
- Prepare forecasts on flooding, overtopped flood protection projects, projected reservoir levels and release rates in affected areas (H&H)
- BPT transition FEMA MA execution to SWF.
- Deploy ADVON (8-10 PAX) forward (or to COOP Site)

Fort Worth District
- EOC elevated to Level II: Emergency Watch.
- Continue to monitor and provide updates to command staff.
- Continue coordination with SWG
- SWF District Commander goes to San Antonio AO in the event Galveston is impacted.
- Be prepared to assume lead from SWG.

Tulsa District
- EOC at Level II: Emergency Watch.
- On order deploy Power PRT to ISB
- On order SWT Commander deploys to ISB. (Power)
- Perform EM-dec power mission assignments.

Little Rock District
- EOC at Level II: Emergency Watch.
- On order deploy SWL PRT and ESF 3 Cadre.
- On order SWL Commander deploys to IOF in Austin. (Commodities).
- On order Continue preparing roofing PRT QAs for potential deployment.
BREAK
The storm has strengthened to a Category 4 hurricane with winds of 135 mph on the Saffir-Simpson scale and is projected to make landfall along the Texas and/or Louisiana Gulf Coast. The city of Galveston has issued an evacuation notice along with several other coastal cities. The National Hurricane Center has warned that a storm on this track could produce extensive flooding along the Gulf Coast. Watches and warnings are in effect from the Texas coast to the Mississippi coast.

Key Discussion Points:
- Priorities - Top 3
- Actions - Anticipated activities during this trigger point?
- Resources - What is your shortfall? What is your contingency plan?

| L-144 | L-120 | L-96 | L-72 | L-48 | L-24 | Landfall | L+24 | L+48 | L+96 | L+30 D |
SWD HQ
- EOC elevated to Level III: Partial Activation or Level IV: Full Activation
- EOC Staff augmentation required.
- Refine post-incident response plans based on improved cone of error
- Refine forecasts of projected flooding, overtopped flood protection projects, projected reservoir levels and release rates
- Coordinate FEMA MA transition from SWG to SWF

FEMA R6
- RRCC activated to Level 1. (24/7)
- Awaiting Hurricane Landfall
- Refine post-incident plans based on improved cone of error
- Issue additional MAs, Debris, Roofing, USR

TDEM
- Awaiting Hurricane Landfall
- Refine post-incident plans based on improved cone of error

Galveston District
- EOC elevated to Level IV (full activation, 24/7), continue monitoring and providing situational updates.
- Readiness Condition 1 (EVACUATION) Relocate CMT and CAT to COOP
- Transition FEMA MA execution to SWF.
- Continue to prepare forecasts on flooding, overtopped flood protection projects, projected reservoir levels and release rates in affected areas (H&H)

Fort Worth District
- EOC elevated to Level IV: (Full staff 24/7) to support response operations.
- Continue to monitor and provide updates to command staff.
- Continue coordination with SWG
- Close project offices and construction sites in projected path of hurricane.
- Receive FEMA MA roles for SWG.
- Awaiting Hurricane Landfall

Tulsa District
- EOC remains at Level II: Emergency Watch.
- Awaiting Hurricane Landfall
- Prep Power PRT for Jump from ISB (Randolph AFB) to down range ISB.

Little Rock District
- EOC elevated to Level II (Emergency Watch) potential flood event in AOR.
- Awaiting Hurricane Landfall
- Continue preparing roofing PRT QAs for potential deployment.
At 1:15 a.m., the National Hurricane Center reports that the eye of Hurricane Madison is passing over the city of Galveston, TX. The storm is a strong Category 4 hurricane with maximum sustained winds of 150 mph. Storm surge values of 12 - 17 ft are occurring across southeastern Louisiana and coastal Mississippi. Some locally higher values to 22 ft have been experienced. Storm surge flooding is extensive over the coastal areas as 14-20 ft of storm surge has occurred. Storm surge values of 14-20 ft have also occurred along the Louisiana coast.

Key Discussion Points:
- Priorities - Top 3
- Actions - In support of priorities
- Resources - In support of actions
SWD – Texas Response
Landfall +
Phase 4: Recovery Phase

FEMA R6/JFO
• RRCC handoff to JFO and returns to normal operations.
• JFO provides response and recovery assistance.
• Issue Post-Dec MAs.

TDEM
• Coordinate with FEMA to fulfill unmet needs.
• Conduct Joint PDAs
• Establish Regional and Local Staging Areas in impacted area.
• Initiate operation of State and local recovery

SWD HQ
• Facilitate Battle handoff from SWF to SWG.
• On order BPT Deploy Dam and Levee Safety SMEs in support of district operations and/or flood-fight.
• Review approve water control deviations. (As required)
• Continue to provide ESF#3 support to FEMA 6 and the JFO.
• Coordinate additional response assets with HQ USACE.

Galveston District
• Reconstitute back to SWG HQ
• Establish RFO as directed by FEMA Mission Assignment
• Assess impacts to SWG personnel and facilities. Reconstitute evacuated staff, repair damaged facilities.
• Assess impacts to project offices and construction sites in path of hurricane. Repair/recover as required.
• Transition FEMA MA execution back from SWF.
• Conduct post-landfall flights to assess hurricane impacts.

Fort Worth District
• EOC remains at Level IV:(Full staff 24/7).
• Transition FEMA MA execution back to SWG.
• Sustain Debris PRT operations.
• Submit USACE project damage assessments, flooding, reservoir status and levee status, to SWD.
• Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
• Transition to Post-dec funding.

Tulsa District
• EOC elevated to Level III (partial staff 12/7) potential flood event in AOR.
• Submit USACE project damage assessments, flooding, reservoir status and levee status, to SWD.
• Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
• Transition to Post-dec funding.

Little Rock District
• EOC remains at Level III (partial staff 12/7) potential flood event in AOR.
• Submit USACE project damage assessments, flooding, reservoir status and levee status, to SWD.
• Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
• Transition to Post-dec funding.
Madison has been downgraded to a tropical depression with maximum sustained winds of 35 mph. Over the last 24 hours, rainfall totals of up to 17 inches have been reported. Heavy rains are occurring along the track of the dissipating system with amounts in the 8-12 inch range and locally higher values occurring over Texas and Arkansas. Up to 10 inches of rain is expected during the next 24 hours as the remnants of the system move slowly northeastward. Reports indicate that tens of thousands of people were unable to evacuate the city.

Key Discussion Points:
- Priorities - Top 3
- Actions - In support of priorities
- Resources - In support of actions
Recovery activities continue on Galveston Island and in adjoining low-lying areas in Texas City and the Houston Ship Channel.

The Remnants of Hurricane Madison has also impacted Northeast Texas with area flooding and flash floods as it moves into Arkansas as the Federal and State agencies continue to provide emergency response and long term support to their communities that were impacted.

Key Discussion Points:
- Priorities - Top 3
- Actions - In support of priorities
- Resources - In support of actions
**SWD HQ**
- Return to Level 1: Normal Ops

- Monitor physical and fiscal closeout of mission assignments.
- Coordinate reconstitution of damaged USACE facilities.
- Support contract close-out.
- Prepare to transition to Long Term Recovery MA as required

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**SWD – Texas Response**
*Phase 5 Close out*

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**FEMA R6**
- Determine completion of mission assignment and deactivates USACE assets.
- Send out mission assignment close out letters as needed.
- Coordinate for Long Term Mission
- Steady State

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**TDEM**
- Request Long Term Recovery Mission as required.
- Return to Level III

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**Galveston District**
- EOC returns to Level 1: (Normal Ops) support response.
- Prepare RFO for mission closeout
- Review and approve all close-out and transition plans for FEMA mission.
- Assess impacts to project offices and construction sites in path of hurricane. Repair/recover as required.
- Provide AAR comments to SWD.
- Prepare to assume Long Term Recovery Mission as directed by FEMA

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**Fort Worth District**
- EOC returns to Level 1: (Normal Ops) support response.
- Prepare Debris mission closeout.
- Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
- Provide AAR comments to SWD.

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**Tulsa District**
- EOC returns to Level 1: (Normal Ops) support response.
- Prepare Power mission closeout.
- Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
- Provide AAR comments to SWD

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**Little Rock District**
- EOC returns to Level 1: (Normal Ops) support response.
- Prepare Temporary Roofing mission closeout.
- Deploy QA volunteers and RFO staff as necessary to meet new requirements and/or replace personnel.
- Provide AAR comments to SWD

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48 + (Long Term Recovery)
Phase 3. Post Incident
USACE Contract Registry
Contracting Opportunities

- Contract for mission execution and support
  - Temporary Roofing (ACI)
  - Debris Removal (ACI)
  - Emergency Power (ACI)
  - Temporary Housing
  - Quality Assurance Inspectors
  - Ice and Water
  - Infrastructure/Structural Inspectors

HQ USACE contractor registration web page:

https://apps.swf.usace.army.mil/hurricane/

Corps of Engineers Disaster Resource contractor Registry located on the Corps of Engineers Emergency Response Portal:

Contracting Registry Website

https://apps.swf.usace.army.mil/hurricane
Disaster Resource Contractor Registry

Division and Proponent POC

Ice/Water POC: Duban Montoya, NAD, 978-318-8086

National Water

Roofing POC: Tom Murrell, NWD, 314-331-8787

Emergency Power

Power POC: Dave Bishop, LRD, 724-459-4709

National Ice

Temp Housing

Debris POC: Jim Garner, MVD, 601-634-7970

TDEM

FEMA

US Army Corps of Engineers ®
Debris Advance Contracting Initiative

- Immediate response
- Maximum local hiring and subcontracting
- Pricing (known & stable)
- Costs reduced
- Partners with Private Sector
- Improves performance
- Standardizes contracts
Emergency Power Contracting:
The Advance Contracting Initiative (ACI) Contracts serve specific FEMA regions as shown below.

ACI Geographic Areas

<table>
<thead>
<tr>
<th>Contract Area</th>
<th>Serving FEMA Regions/Territories</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>I, II, III, IV, V, Puerto Rico, and the Virgin Islands</td>
</tr>
<tr>
<td>II</td>
<td>VI, VII and VIII</td>
</tr>
<tr>
<td>III</td>
<td>IX, X, Alaska, Hawaii, and Guam</td>
</tr>
</tbody>
</table>

Area I
- IAP Worldwide Services

Area II
- IAP Worldwide Services

Area III
- Kellogg, Brown and Root Services, Inc

In addition to the three ACI contracts which are Area specific, USACE also provides additional capabilities through the Worldwide Power (WWP) Contingency Response Contracts. Three firms hold the WWP contracts: Berger Cummings JV, Fluor Corp., and IAP Worldwide Services.
Discussions

Closing Remarks