



**US Army Corps
of Engineers
Galveston District**

***Corps does the job on Rita:*
“Federal Partners
for Communities in
Disaster Recovery”**

**Hurricane Rita
Southeast Texas**

**COL Steve Haustein
May 24, 2006**





**US Army Corps
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Galveston District

Agenda

2005 Recap

USACE Disaster Area Support



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Hurricane Season 2005

- Record-breaking activity: June through 1 Dec
 - 26 named storms: 14 reached hurricane stage
 - Emily, Katrina, Rita, Ophelia, Wilma affected the Gulf Coast
 - 7 storms grew to Category 3 strength or higher
- Initial Response
 - National Response Plan
 - FEMA mission assignments
 - Over 10% of entire 35,000 Corps of Engineers deployed

One Corps Serving the Nation



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Navigation

- Pre-storm surveys of 12 Texas channels
- 11 channels open with 48 hours of landfall
- SNWW opened 6 days after landfall
- Damage Assessment
 - Dredging
 - Disposal Areas
 - Jetties
 - Other Infrastructure



A sunken barge on the GIWW

Groves Community Church



**FEMA
Missions**



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Rita Personnel

- 1120 Personnel
 - USACE 631 (37 Corps organizations)
 - Department of Interior 80
 - Army Material Command 9
 - Contract 400
- 4000 Contractors
(Over 1500 at peak of mission)



Corps Housing team



Ice and Water Mission

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USACE may provide:

- Turn-key management of emergency supplies of potable water (bottled and bulk)
- Bagged ice to include planning, procurement, transportation, distribution, testing, and disposal.

Technical Assistance may include (but is not limited to):

- Advance planning and preparedness, participation in exercises.
- Assessing disaster commodity requirements (via models).
- Determining requirements and optimum locations for staging and distribution sites.
- Coordination of transportation resources.
- Recommendations on commodity types (wet versus dry ice, bottled versus bulk water).



Ice stacked for distribution.



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Ice and Water Mission

continue...

Direct Federal Assistance (DFA) may include (but is not limited to):

- Procurement
- Transportation
- Loading and unloading
- Storage

Cost sharing:

- Executed at 75% to 100% Federal cost and 0% to 25% local cost through completion of the mission.
- Cost share is based on level of damage and area of impact.
- Eligibility of request is determined by FEMA.
- Congressional directives can expand or modify the level of assistance that can be provided to local government.



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Ice and Water Mission: *Roles and Responsibilities*

Citizens

- Receive ice and water as desired at points of distribution.

Local Government

- Identify and prioritize requirements needed.
- Request assistance through appropriate state channels.
- Provide necessary permits and licenses.
- Provide real estate support.
- Provide assistance with contaminated commodities.
- Identify the type (I, II, of III) of points of distribution and provide labor/equipment for local staging and PODS.
- Provide maps of transportation routes and facilities and provide a POC for each staging and point of distribution.

State Government

- Validates, consolidates, and prioritizes local government requests.
- Provides state and regional staging areas with material handling equipment.
- Receives and issues donated and state contracted commodities.
- Provides regulatory support, guidance, and oversight.

FEMA

- Validates eligibility and priority of State government requests.
- Validates scope of work and performance criteria of how fast, how much, how often.

USACE

- Manages commodity contracts.
- Manages the movement of commodity from staging warehouses.
- Monitors all commodities to include donated, local, State, and Federal government.
- Coordinates with local, State, and Federal agencies on commodity processes.

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Ice and Water Mission: *Questions to be answered*

- Who will provide rights of entry/hold harmless document?
- Where will staging areas and points of distribution be located?
- What will be the operating hours of the staging areas and points of distribution?
- Who will staff staging areas and points of distribution?
- Who will provide the material handling equipment needed for staging and points of distribution?
- How will security be provided?
- Who will provide traffic control?
- How will the public be advised of locations and hours of operations?
- How will contaminated commodities be dealt with?
- What are the processes to provide commodities?
 - Staging
 - How much commodity should I keep at a staging area?
 - Who can release commodities from a staging area?
 - Requirements
 - How much will I pass out to each vehicle at a point of distribution?
 - Distribution
 - Testing/Contamination
- At what point will commodities no longer be distributed, i.e. when power returns, when commercial stores open, or when shelters are closed?



Power Mission

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USACE may provide:

- Complete management of an emergency power mission; including procurement, installation and operation of generators.

Technical Assistance may include (but is not limited to):

- Assessing emergency power requirements.
- Assessing conditions & capabilities of existing emergency generation equipment.
- Troubleshooting, repair, & operation of emergency generation/distribution equipment.
- Installation of emergency power generation equipment.

Direct Federal Assistance (DFA) may include (but is not limited to):

- Prioritization of assessing and installing generators at critical public facilities.
- Preparation, hauling, installation and de-installation of generators.
- Operation, fueling, service, and maintenance of installed generators.

Cost sharing:

- Executed at 75% to 100%; Federal cost and 0% to 25% local cost.
- Cost share is determined by FEMA based on level of damage and area of impact.
- Eligibility of request is determined by FEMA.
- Congressional directives can expand or modify the level of assistance that can be provided to local government.



Corps' Ready-Response vehicle.



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Power Mission: *Roles and Responsibilities*

Citizens

- Request temporary roofing assistance at right-of-entry collection points.
- Post ROE on the front door or window until it is installed.
- Maintain and dispose temporary roof after installation.

Local Government

- Identify critical facilities and prioritize requirements needed, including where, what, when, how.
- Request assistance through appropriate state channels to ensure state and regional resources are exhausted.
- Provide necessary permits and licenses.
- Provide real estate support to include land for staging sites and rights-of-entry.
- Provide a POC for each requirement.
- Pre-identify critical facilities and conduct assessments identifying each potential requirement.

State Government

- Validates, consolidates, and prioritizes local government requests
- Provides regulatory support, guidance, and oversight

FEMA

- Validates eligibility and priority of State government requests.
- Validates scope of work and performance criteria of how fast, how much, how often.

USACE

- Issues and manages emergency generator contracts to execute assigned mission.
- Conducts pre-installation assessments or validates existing assessments.
- Conducts Environmental Assessments and remediation of generator installation sites.
- Secures rights-of-entry for all installation sites.



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Power Mission:

Questions to be answered

- Who is responsible for accepting each generator?
- Who will provide rights of entry/hold harmless documents?
- Who will provide site security for each generator installation?
- Who is responsible for hauling and installation?
- Who is responsible for fueling each generator?
- How will site access be provided for operation and maintenance of each generator?
- How will site contamination be addressed?
- What is the occupancy (use) of each critical facility?
- Are there requirements for noise and/or emission reduction?
- What are the processes necessary to install emergency generators?
 - Pre-installation Inspection
 - Will USACE conduct all assessments?.
 - Are site POCs and access provided for each site?
 - Installation
 - Who is the commercial service provider?
 - Operation and Maintenance
 - De-installation



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Temporary Roofing Mission

Operation Blue Roof

USACE may provide:

- Installation of blue plastic sheeting onto roofs of damaged homes.
- Corps accepts and manages the disbursement of the materials to other groups/organizations.

Technical Assistance may include (but is not limited to):

- Scoping the magnitude of the mission requirements for State and local governments.
- Assess conditions and capabilities of local governments to execute/contract for the installation of temporary roofing.
- Provide on the job training.

Direct Federal Assistance (DFA) may include (but is not limited to):

- Complete management of a Temporary Roofing mission.
- Providing logistical support (equipment, supplies, and materials).
- Establishment of Call-in Centers and Collection Points for the collection of Rights-of-Entries.

Cost sharing:

- Execute at 75% to 100%; Federal cost and 0% to 25% local cost.
- Cost share is determined by FEMA based on level of damage and area of impact.
- Eligibility of request is determined by FEMA.
- Congressional directives can expand or modify the level of assistance that can be provided to local government.



Installed blue roof.



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Temporary Roofing Mission

Roles and Responsibilities

Local Government

- Determine requirements needed.
- Request assistance through appropriate state channels.
- Provide necessary permits and licenses.
- Provide real estate support to include land for logistics staging areas.

State Government

- Validates, consolidates, and prioritizes local government requests.
- Provides regulatory support, guidance, and oversight.

FEMA

- Validates eligibility and priority of State government requests.
- Validates scope of work and performance criteria of how fast, how much, how often.

USACE

- Issues and manages temporary roofing contracts to execute assigned mission.
- Establish ROE collection points
- Establish Operation Blue Roof hotline.



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Temporary Roofing Mission: *Questions to be answered*

- Who will provide rights of entry/hold harmless document?
- How will structures with over 50% damage be dealt with?
- How will metal, tile, and non-traditional roofs be dealt with?
- Who will provide state Historical Preservation services?
- What are the processes to install temporary roofing?
 - Rights-of Entry
 - Installation
- How many days are expected to complete temporary roofing operations?
- At what point will the use of temporary roofing be complete?



Temporary Housing Mission

Travel Trailers

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USACE may provide:

- Temporary housing for disaster victims.
- Design and development of new trailer/mobile home parks.
- Purchasing, hauling, and installing travel trailer/mobile homes.
- Engineering and construction management services to do all work necessary to upgrade and renovate existing trailer parks.
- FEMA typically asks the Corps to provide temporary housing support when all other resources for occupancy have been exhausted.
- If the local governments cannot provide sites, then FEMA may also ask the Corps to lease sites on behalf of FEMA.

Cost sharing:

- Executed at 100% Federal cost and 0% local cost.



Family's temporary home.



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Temporary Housing Mission

Roles and Responsibilities

Citizens

- Request temporary housing at FEMA Disaster Recovery Center.

Local Government

- Assist FEMA in determining requirements.
- Request assistance through appropriate state channels.
- Provide necessary permits and licenses.
- Provide real estate support.

State Government

- Validates, consolidates, and prioritizes local government requests.
- Provides regulatory support, guidance, and oversight.

FEMA

- Validates eligibility and priority of State government requests.
- Validates scope of work and performance criteria of how fast, how much, how often.
- Approve applications for temporary housing.

USACE

- Issues and manages temporary housing contracts to execute assigned mission.
- Acquire temporary housing units as directed by FEMA.



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Temporary Housing Mission

Questions to be answered

- Who will provide rights of entry/hold harmless document?
- Will existing sites or new sites be used?
- Where will new sites/parks be located?
- What will be the sizes (number of pads) of the new sites/parks?
- What utility and jurisdiction services are available to support new sites/parks?
- Are waivers to be provided for code and zoning relief?
- Who will provide NEPA and environmental clearances?
- Who will provide state Historical Preservation services?
- What are the processes for each aspect of the mission?
 - Develop requirements
 - Site assessment and planning
 - Site development (construction)
 - Installation
 - Maintenance
 - Deinstallation
- How many days before the temporary housing must be in place?
- At what point should new temporary housing cease to be developed?



Debris Mission

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USACE may provide:

- Clearance, removal, and disposal of contaminated and uncontaminated debris.
- Debris can be removed from public property, ground transportation routes and water transportation routes.
- The types of debris range from vegetative, trees and brush, to household contents debris such as refrigerators.

Technical Assistance may include (but is not limited to):

- Advising local government on estimation of debris quantity, contract scoping, quality assurance and safety oversight and training, and environmental issues.

Direct Federal Assistance (DFA) may include (but is not limited to):

- Right of Way Debris Removal.
- Demolition Debris Removal from Drainage Structures and non-Federal Waterways

Cost Sharing:

- Executed at 75% to 100% Federal cost and 0% to 25% local cost.
- Cost share is determined by FEMA based on level of damage and area of impact.
- Eligibility of debris for removal is determined by FEMA.
- Congressional directives can expand or modify the level of assistance that can be provided to local government.



A pile of debris at a reduction site.



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Debris Mission

Roles and Responsibilities

Citizens (assuming no access to private property)

- Collect and haul debris to the right of way
- Separate debris into vegetative, construction and demolition and white goods piles.

Local Government

- Identify and prioritize requirements needed.
- Request assistance through appropriate state channels.
- Provide necessary permits and licenses.
- Provide real estate support to include land for reduction sites and rights-of-entry.
- Provide technical advice and assistance in the handling and disposal of hazardous material.
- Identify available recycling/reduction facilities for disposal of debris.
- Traffic control at collection sites.

State Government

- Validates, consolidates, and prioritizes local government requests
- Provides regulatory support, guidance, and oversight

FEMA

- Validates eligibility and priority of State government requests.
- Validates scope of work and performance criteria of how fast, how much, how often.

USACE

- Issues and manages debris contracts to execute assigned mission.
- Conducts Environmental Assessments of reduction sites.
- Secures rights-of-entry for all collection and reduction sites.
- Establish debris information hotline.



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Debris Mission

Questions to be answered

- Who is responsible for providing reduction/disposal sites?
- Who will provide rights of entry/hold harmless document?
- How will household hazardous waste be dealt with?
- How will hazardous and toxic waste, such as asbestos and Freon be dealt with?
- Who will provide state Historical Preservation services?
- Who will address NEPA/Environmental issues?
- Who is responsible for pick-up and hauling?
- How will “white” goods be addressed?
- Method of reduction Incineration, grinding/chipping, or none.
- What will be done with any mulch generated by chipping/grinding?
- What are the processes used to remove debris and can examples of each be shown?
 - Removal
 - Will removal be accomplished by curb side pick-up?
 - Will contractors need to enter private property?
 - Reduction
 - Where will reduction sites be located?
 - Disposal
 - Demolition
- Where are the locations where debris is coming from and the reduction/disposal it will be going to?
- How many days do you expect to have before removal operations are complete?
- At what point would debris removal operations be complete, i.e. after three complete passes?



Lessons Learned

**US Army Corps
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- **Communications**
 - Public Outreach
 - Public perception of FEMA versus the Corps
 - Attend local government meeting
- **Consistency in policy interpretation**
 - Consistent answers needed
- **Contracting**
 - Create competition among USACE contractors
 - Maximum use of local small businesses
 - Generate production capacity ASAP
- **Team Effort**
 - Corps
 - Contractors
 - Public
 - Elected Officials
 - Media



Contact Information

US Army Corps
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Galveston District

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**US Army Corps
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**“We (the Corps) are
not tied to a deadline,
we are tied to mission
accomplishment and
will stay till the end”**

*-Col. Steve Haustein,
District Commander
USACE, Galveston District
and Task Force
Commander of the RFO*

