Hurricane IKE

US Coast Guard Response

Captain Marcus Woodring
Sector Houston-Galveston
# Hurricane IKE

<table>
<thead>
<tr>
<th>Hurricane Condition Five</th>
<th>Hurricane Condition Four</th>
<th>Hurricane Condition Three</th>
<th>Hurricane Condition Two</th>
<th>Hurricane Condition One</th>
<th>Recovery</th>
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</thead>
<tbody>
<tr>
<td><strong>01Jun – 30Nov</strong></td>
<td>&lt; 72 hrs</td>
<td>&lt; 48 hrs</td>
<td>&lt; 24 hrs</td>
<td>&lt; 12 hrs</td>
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<tr>
<td><strong>Port Con Whiskey</strong></td>
<td><strong>Port Con X-Ray</strong></td>
<td><strong>Port Con Yankee</strong></td>
<td><strong>Port Con Zulu</strong></td>
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<tr>
<td>&gt;34 kts/72 hrs</td>
<td>&gt;34 kts/48 hrs</td>
<td>&gt;34 kts/24 hrs</td>
<td>&gt;34 kts/12 hrs</td>
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<tr>
<td><strong>Ships report intentions to Coast Guard</strong></td>
<td><strong>Ships apply to remain inport</strong></td>
<td><strong>Port closed to inbound ships</strong></td>
<td><strong>Port closed Internal moves allowed until &gt;64kts &lt;12hrs</strong></td>
<td><strong>Reopen port after surveys of channels and facilities</strong></td>
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Port Conditions based upon forecasted arrival of gale force winds
Hurricane Carly
Surge: 10.6 Feet
Emergency Response/ Search and Rescue
Response and SAR
Assess the Mess
Assess the Mess
Assess the Mess
Assess the Mess
Prioritize and “Go to Work”
Prioritize and Go to Work

Ships in the queue off Galveston
Prioritize and Go to Work - ATON
Prioritize and Go to Work - ATON
Prioritize and Go to Work - ATON
Prioritize and Go to Work - Traffic

PCT Goals

1) Communicate, communicate, communicate

2) Coordinates port wide posture changes in response to all threats/all hazards

3) Ensures Port reopening and prioritization of maritime traffic optimizes timely supply of critical commodities to facilities

4) Assists Federal/State/Local responders with local knowledge, expertise and supplies
PCT Constituencies

Port of Houston Authority
Port of Galveston
Offshore Port
West Gulf Maritime Assoc.
Galveston-Texas City Pilots Assoc.
Oil Terminals
Non-VTS Users
Galveston RR Bridge
NOAA Navigation Services
MTSRU Representative

Port of Texas City
Port of Freeport
Gulf Intracoastal Canal Assn.
Houston Pilots Assoc.
Oil Refiners
Chemical Carriers
Chemical Facilities
Harbor Tugs
USCG
NOAA National Weather Service

- Scheduled Conference Calls
- Information exchanged between and among representatives
- VTS Director and/or Waterways Manager may represent COTP
Prioritize and Go to Work - Traffic

Port Coordination Team

- Port of Texas City
- Offshore Port
- Port of Houston
- Port of Galveston
- American Waterways Operators
- Port of Freeport
- Oil Refineries
- Chemical Carriers
- Oil Terminals
- Houston Pilots
- Harbor Tugs
- West Gulf Maritime
- Non-VTS Users
- Galveston-TX City Pilots

ALWAYS READY
JHT Goals

1) Communicate, communicate, communicate

2) Coordinates port wide posture changes in response to all threats/all hazards

3) Ensures Port reopening and prioritization of maritime traffic optimizes timely supply of critical commodities to facilities

4) Assists Federal/State/Local responders with local knowledge, expertise and supplies
Results...
How did we do??

• Health and Safety:
  • 235 lives saved (103 pre-storm/132 post-storm)

• Economic Impact:
  • Sectorwide waterways produce approx 412M a day
  • Hurricane IKE cost maritime industry > $2B
  • HSC reopened to 12ft draft within 48hrs and to deep draft vessels within 96hrs
  • 1,237 total aids/782 damaged (58%) Sectorwide
  • 464 total aids/396 damaged (85%) in HSC
  • 4 organic ATON units and 11 additional ATON units utilized in effort, 96% corrected by 01Oct
Key Successes

- The PCT/JHT participation is the only possible way to coordinate across all segments of maritime industry and governmental agencies to make things happen quickly, and in the right order, with all relevant players on board.

- We undertook the largest scale ATON operation in the history of the USCG, and made it work.

- The USCG is the premier Maritime Search and Rescue (SAR) organization in the world and is the right organization to coordinate all maritime related SAR.
Hurricane IKE

Questions??