

PORT OF HOUSTON AUTHORITY

AAPA Hurricane Workshop

Recovery and Continuity of OPS Marcus Woodring, Port of Houston Authority



HOUSTONACHRONICLE

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A TOWERING MESS ON SHIP CHANNEL



CREATER

EXPECT DELAYS: CenterPoint Energy expects to have this tower cleared from the Ship Channel by Wednesday. But the head of the Houston Ship Pilots said it could take three days after that to get things back to normal.

BOTTLENECK: Economic effects of mishap will be felt quickly in 75% of Port's terminals

By ZAIN SHAUK

HOUSTON CHRONICLE

A set of barges crashed into an electrical tower Sunday in the Port of Houston, prompting the U.S. Coast Guard to shut down most of the nation's second-largest maritime shipping complex, possibly until Wednesday.

A towing vessel pushing three barges of scrap metal through the Houston Ship Channel about 6 a.m. hit a 300-foot-tall electrical tower, which carries lines across the artery, said Petty Officer Richard Brahm, a spokesman for the Coast Guard. No injuries were reported.

The crash happened at the narrowest point in the waterway, leaving three-fourths of the port's terminals inaccessible.

"Maybe if it was wider we could have got boats around



CHRONICLE

it, but it's not, so it's a logistical problem," Brahm said. "It's a bad place for it to happen."

There was no risk of electricity-related injuries or effects to the power grid, which is owned by Houston-based CenterPoint Energy, because lines in the area were deactivated prior to the crash for maintenance work, said Penny Todd, a spokeswoman for the company.

Resilience/Recovery

"Resilience involves preparation before, mitigation during, response immediately following, and recovery after an adverse event. Another key aspect...relative to ports involves understanding the interdependencies that exist between assets and critical infrastructure sectors (e.g. energy and water) necessary for the operation of the port system as a whole." - GAO Report

"The Houston Method"

The Four Phases

- "Hunker Down" (Preparation)
- Emergency Response / Search and Rescue (Mitigation)
- "Assess the Mess" (Response)
- Prioritize and "Go to Work" (Recovery)



"Hunker Down"



Port of Houston Statistics

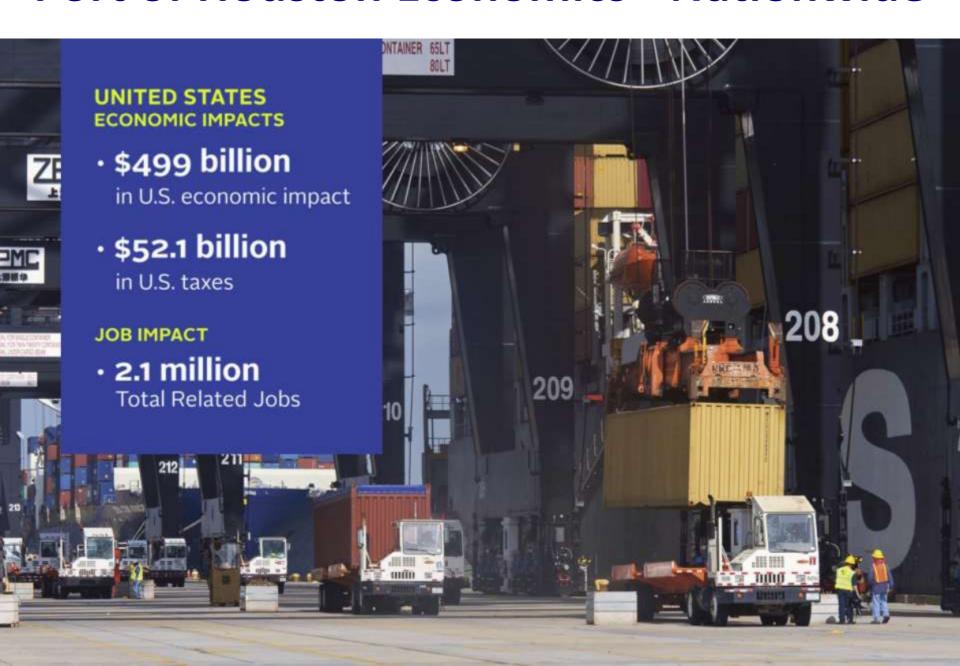
- 8 PHA terminals (of ~150 on Upper HSC)
- >8,000 annual vessels arrivals
- 2nd largest petrochemical complex in world (2011)
- 12th largest port in the world (2010)
- 1st in U.S. foreign trade by volume (2010)
- 2nd in U.S. foreign trade by cargo value (2010)
- "Most Irreplaceable Port" (2012)

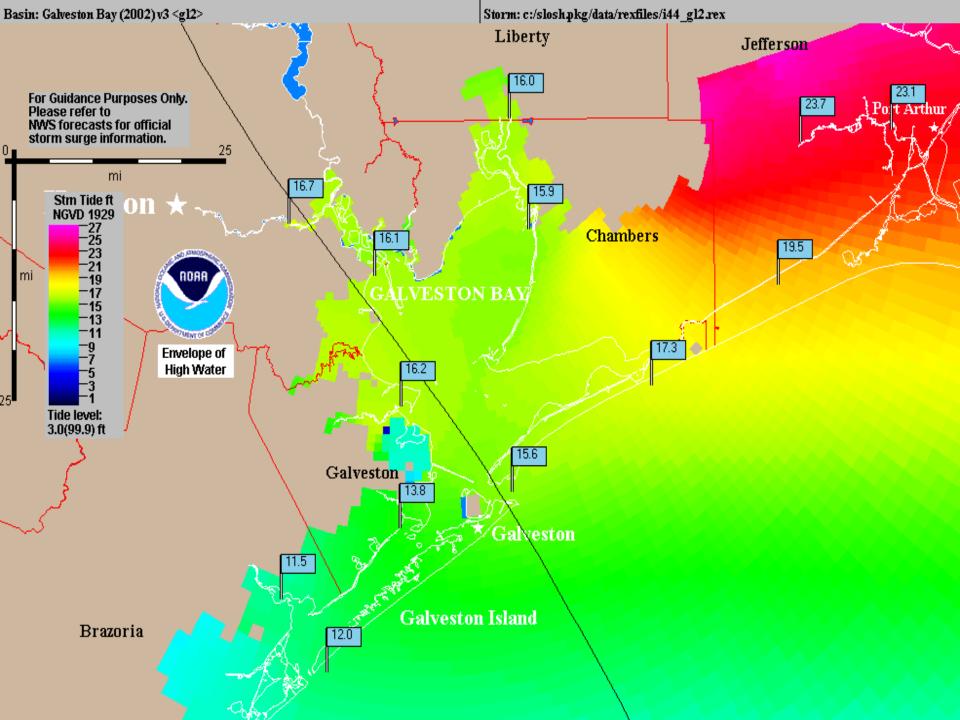


Port of Houston Economics - Texas



Port of Houston Economics - Nationwide













Emergency Response (skip)



"Assess the Mess"



















Prioritize and "Go to Work"



Considerations

• Is the waterway ready? – ACOE survey and then USCG COTP decision







Considerations

- Is the waterway ready? ACOE survey and then USCG COTP decision
- Is the facility ready to receive? Facility operator and USCG









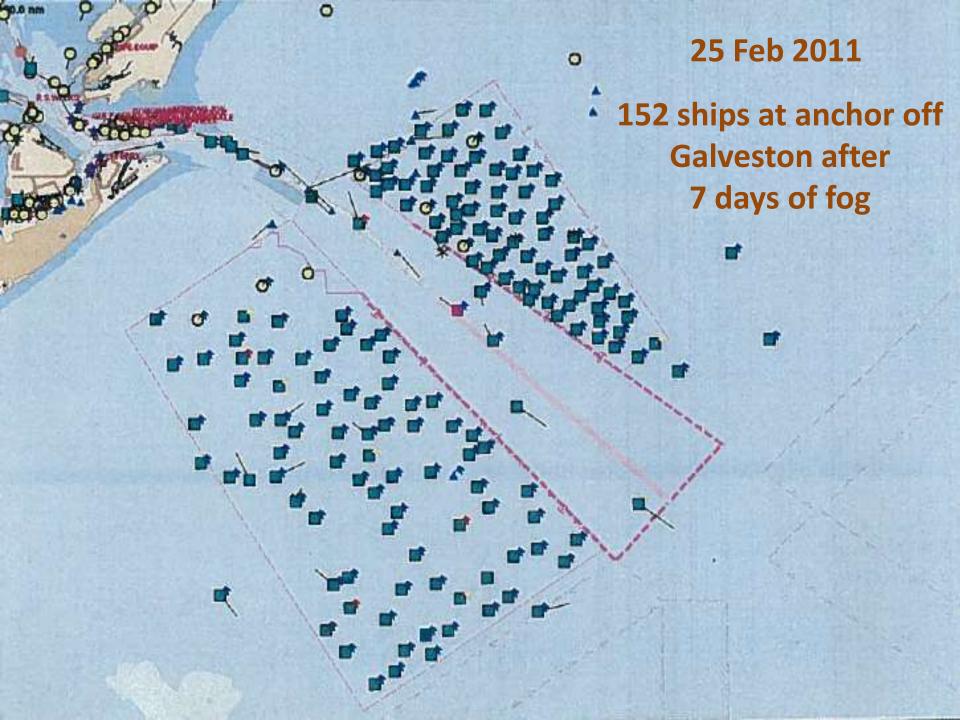


Considerations

- Is the waterway ready? ACOE survey and then USCG COTP decision
- Is the facility ready to receive? Facility operator and USCG
- Who goes first?? Port Coordination Team







Port Coordination Team (PCT) Goals

- 1) Communicate, communicate, communicate
- 2) Coordinate port-wide assessment of waterways
- 3) Coordinate port-wide assessment of facility readiness
- 4) Move traffic with a purpose "Ensures port reopening and prioritization of maritime traffic optimizes timely supply of critical commodities to facilities"
- 5) Facilities "most in need" receive first ships





Representatives on PCT

Port of Houston Authority

Port of Galveston

Offshore Port

West Gulf Maritime Assoc.

Galveston-Texas City Pilots

Oil Terminals

Non-VTS Users

Galveston RR Bridge

NOAA Navigation Services

MTSRU Representative

Dredging

Port of Texas City

Port of Freeport

Gulf Intracoastal Canal Assn.

Houston Pilots Assoc.

Oil Refiners

Chemical Carriers

Chemical Facilities

Harbor Tugs

USCG COTP

NOAA NWS

CBP

- Scheduled conference calls led by USCG VTS

- Information exchanged between and among reps



How are PCT reps chosen?

Experience is a jewel and it has need to be so, for it is often purchased at an infinite price.

- Wm. Shakespeare





PCT Call Agenda/Sequence

ACOE waterway restoration call held first

- Roll Call of Participants VTS
- Weather NWS
- State of the Waterway USCG
- Requirements of Industry Hear from all
- Pilot/Towing Industry/USCG Coordination
- The Way Ahead/Intentions COTP
- Issues for COTP resolution recapped



Best Response Model

Key Business Drivers



<u>GOAL</u>

Serve the Citizens of Texas



How did PCT do?

- Economic Impact:
 - Hurricane IKE cost maritime industry > \$2B
 - HSC reopened to 12ft draft within 45hrs and to deep draft vessels (38ft) within 96hrs
- Stakeholder Involvement:
 - Port Coordination Team managed re-opening
 - Facilities readiness addressed via PCT
 - Active participation with industry plus GICA, ACOE and NOAA



Questions or Comments???

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"Protect and Secure - People and Commerce"