Hurricanes Katrina & Rita
August 29 & Sept. 24, 2005

A Look Back Two Years

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Topics of Discussion

- Destruction
- Pre-Storm Responsibilities
- Post Storm Responsibilities
- Hurricane Financing
- Effects on the Economy
- Lessons Learned
Overall Destruction

- 255,000 homes severely destroyed
- 81,000 businesses impacted
- 1,800 deaths
- 650,000 residents displaced
Transportation Related Impacts

1.3 million people evacuated

3.6 million cubic yards of debris removed

2,000 miles of roads submerged

$1.3 billion in transportation damages

169 miles of levees damaged
Katrina Moves Across Southeastern Louisiana

Port of New Orleans docks are flattened

Almonaster Boulevard in New Orleans is destroyed
Storm Surge Floods Coastline & A Major Energy Corridor

Fishing boats are tossed onto LA 23

LA 1, the only route out of lower Lafourche Parish, is submerged as Katrina churns inland.
Transportation Responsibilities

**Pre-Storm**
- Activate Emergency Operations
- Evacuation (Contraflow - reversed lane flow)
- Traffic Management
- Communications
Evacuation Begins for Hurricane Katrina

Contraflow traffic operations begin on Saturday afternoon in New Orleans metropolitan area
Contraflow Plan for Katrina

Metropolitan New Orleans Contraflow Plan

1-55 North (Contraflow) into Mississippi
1-55 North from 1-10 West
US 300 (Contrasway) to 1-12 West
1-10 West (Contraflow) to LaPlace
1-10 West to 1-55 North
1-12 to US 100 West
Contrasway to 1-12 West to 1-55 North

Legend:
- Mississippi River
- Intracoastal Waterway
- Contraflow Crossover
- Index Map Reference
- I-10 West to I-59 North
- I-10 East to I-59 North
- I-10 West to Contraflow to I-30 West
- I-10 West to I-55 North
- I-12 to US 100 West
- Contrasway to 1-12 West to 1-55 North
Results of the Contraflow Plan for Hurricane Katrina

- Operated for 25 hours
- Over 1 million (est.) evacuated
- Longest delay: 2 – 3 hours
Traffic Management

- 30 variable message boards
- 17 dynamic message boards statewide
- 28 locations - adjust signal timing
- 10 motorist assistance patrol vehicles & tow trucks
- 25 traffic cameras

Intentions are to increase the volume of traffic management tools in the future
Communication Lessons Learned

- Blackberry’s e-mail feature worked better than mobile phones
  - Equipped more personnel with Blackberry devices
- Satellite phones worked well
  - Key personnel have these
- Established a Call Center for road closure information and emergency numbers
  - 12,000 calls taken during Katrina

Interoperability
Transportation Responsibilities

Post Storm

- Search and Rescue
- Debris Removal
- Infrastructure inspection and repair
- Hurricane Financing
Search & Rescue

6,000+ stranded storm victims are rescued on LADOTD ferries
Tons of Debris

LADOTD could have filled the Superdome with debris
Infrastructure

- Assess damage
- Inspection of bridges
- Levees
- Pump stations
- Repair damaged roads and bridges

LADOTD employees answer the call

09/29/2005
Camp LADOTD

Trailers on DOTD property house DOTD employees and families
Katrina Casualty
Storm Claims I-10 Twin Span Bridge
Repairs Begin On Twin Span Bridge
Repairing The Bridge
LADOTD demonstrated a new way of doing things by reopening the bridge 28 days after the hurricane.
Building a 22nd Century Bridge
Jumpstarting the Economy

Free bus service gets people back to work.
Hurricane Financing
“The Tale of Twos”

LADOTD has facilities covered by

2 Federal Agencies with

2 Approaches to Recovery and

2 Processes and Procedures and

2 Storm Events
# Funding Overview

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<th>Authorized/Obligated</th>
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<td><strong>FEMA PWs</strong></td>
<td>$77 M</td>
<td>$69.9 M</td>
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<td><strong>FHWA ER Funds</strong></td>
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<td><strong>TOTAL</strong></td>
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* As of October, 2007

* FEMA does not reimburse regular time labor (Cat A&B).

** Includes indirect cost reimbursement.
Lessons Learned

Emergency Plan in place (all governmental agencies)
- Practice
- Assess
- Follow-through

Be prepared to sustain staff & operations w/out assistance from outside services for at least one week
- Water
- Food
- Fuel
- Communications
Lessons Learned

- Have a plan to maintain operations
- Coordinating agencies must communicate
- Have contracts in place for:
  - Mobilizing resources
  - Debris removal
  - Emergency repair
7th National Conference on
Transportation Asset Management

Welcome to New Orleans