

Association of Levee Boards of Louisiana
Briefing by Colonel Peter J. Rowan
New Orleans, December 2004

642 USACE Personnel Support Hurricane Recovery Missions

- Temporary roofs – completed 134,199
- Total temporary housing units – completed 608 of a projected 991
- Water – delivered 31.2 million liters
- Ice – delivered 163 million pounds
- Generators – completed 1,403 assessments and installed 585
- Debris removal – Removed 2.3 million cubic yards of a projected 2.25 million cubic yards

Topics

- *Civil Works Strategic Plan*
- *Budget Reality*
- *Studies / Projects*
- *Future Events*

Civil Works Strategic Plan

- Challenges
- Approaches
- Goals

Civil Works Strategic Plan Challenges

- Balance traditional demands with ecosystem objectives
- Restore the environment's vitality
- Address aging infrastructure
- Respond to natural disasters/terrorism
- Minimize institutional barriers

Civil Works Strategic Plan Approaches

- Holistic focus
- Spatial / geographic integration
- Systematic approach
- Collaborative efforts
- Existing resources

Civil Works Strategic Plan Goals

- Provide sustainable development and integrated management
- Repair degradation and prevent future loss
- Ensure projects perform to meet purposes
- Reduce vulnerabilities and losses
- Be a world-class engineering organization

Topics

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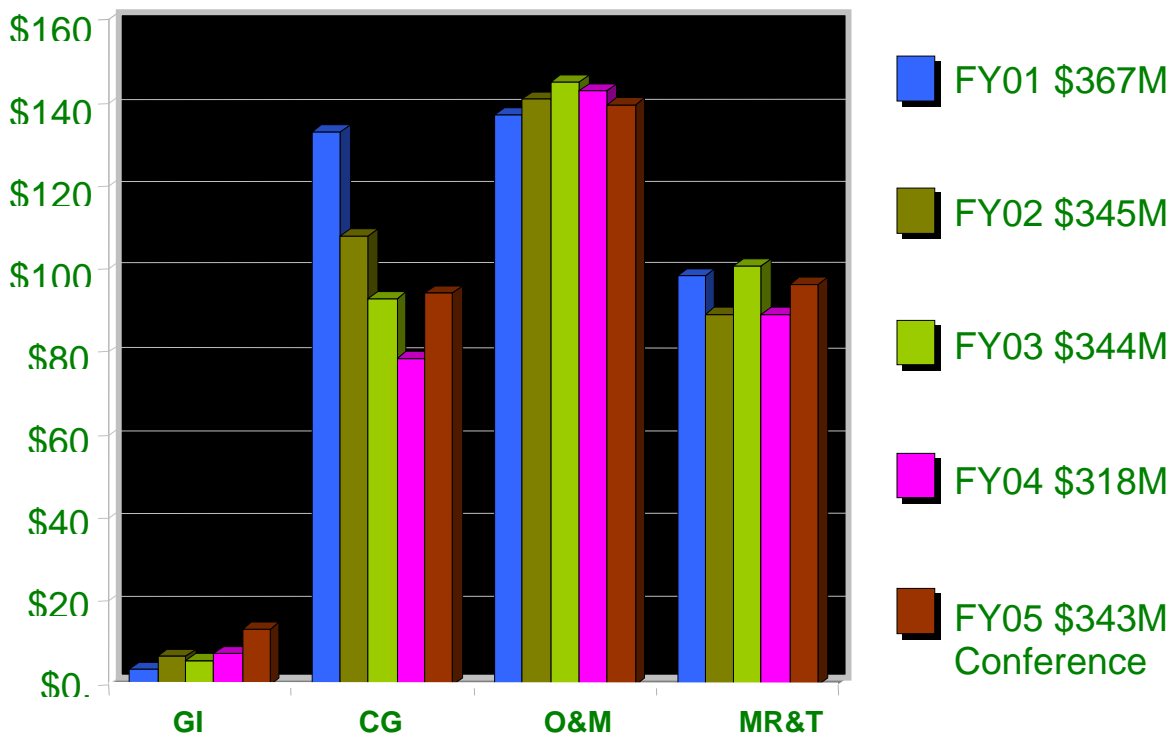
FY 2005 Program

\$319 million -- Regular Appropriations

\$343 million -- Conference Allocation

\$30 million -- Emergency Supplemental Funding (received to date)

\$15 million -- FY 04 liabilities (paid from FY 05 funding)



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Mississippi River Levees (Miles)

Remy to Garyville

Completed 501

Under Construction 0

(Gap closures only)

Remaining	11
Total	512

In construction work on the Mississippi River system in the New Orleans District – we’re 99 percent complete and have only 11 miles of work remaining. With the exception of a short reach in Baton Rouge, only deficiencies in freeboard remain.

Mississippi River Levee System

Alhambra-Hohen Solms levee

- Two active contracts
 - East Bank Gaps
 - Baton Rouge Front
- Two potential FY 05 contracts
 - Alhambra to Hohen-Solms
 - West Bank Gaps

The East Bank Gaps contract is scheduled for completion this month, and we also recently awarded a contract for Baton Rouge Front.

Atchafalaya Basin Levees (Miles)

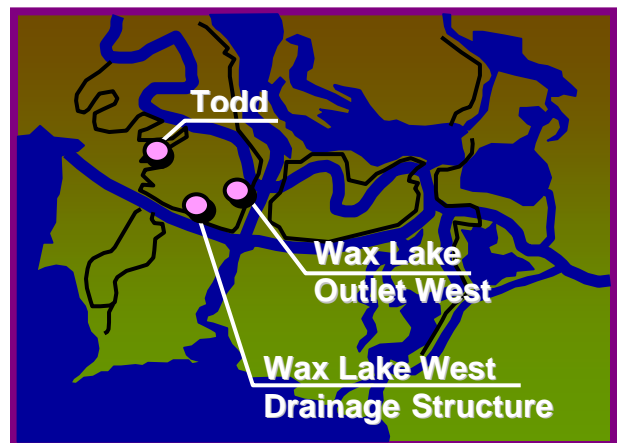
Tech Ridge-Centerville

Completed	395
Under Construction	8
Scheduled for FY05	11
Remaining	35
Total	449

These numbers show our levee progress in the Atchafalaya Basin where we’re about 93 percent physically complete. In FY 04, we completed three contracts covering over four miles.

Atchafalaya Basin

- Three completed contracts
 - Todd Levee and Pumping Station,
 - Wax Lake Outlet West Levee
 - Wax Lake West Drainage Structure closure
- Three ongoing contracts
 - W85A&B
 - W-52 Levee
 - E-69/73 Levee
- Three FY 05 scheduled contracts
 - Melville Front and Ring
 - Krotz Springs Front
 - Wax Lake Outlet East



Lake Pontchartrain & Vicinity Hurricane Protection Project

- One ongoing contract
 - Hammond Highway Bridge
- Four potential FY 05 contracts
 - Illinois Central Railroad floodgate
 - Jefferson Parish Reaches **1 & 4** levee enlargements
 - St. Charles Parish Gulf South Pipeline closure

The Hammond Highway Bridge, which connects Orleans and Jefferson Parishes at the 17th Street Canal, is under construction. This contract will expand the roadway to four lanes under a multi-agency agreement. It will be completed by the first quarter of 2005. The Louis Armstrong Airport, as part of their runway rehabilitation contract, will construct a floodgate at the Canadian National Illinois Central Railroad. If funding permits, a floodgate at the Illinois Central Railroad, a levee enlargement in Reach 2B and a closure at the Gulf South Pipeline will be awarded this fiscal year. Completion of these contracts will provide a closed system of protection for St. Charles Parish.

West Bank & Vicinity Hurricane Protection Project

- One completed contract
 - Algiers Canal levee enlargement
- Five active contracts
 - Cousins Pump Station expansion
 - Cousins discharge channel and culvert
 - Reach 3 structures
 - Ames and Mt. Kennedy floodwall
 - Mt. Kennedy Pumping Station improvement
 - Oak Cove levee closure
 - Harvey Canal Hurricane Flood Gate
 - Lake Cataouatche Pumping Station to Bayou Segnette State Park
- Two scheduled contracts
 - Belle Chasse Hwy to Algiers Lock, east of Algiers Canal
 - Plaquemines Pump Station to Belle Chasse Hwy, east of Algiers Canal
- Three potential FY 05 contracts
 - Belle Chasse Hwy to Hero Cutoff (West), Reach 2
 - Harvey Canal floodwall (east), from Boomtown Casino to Hero Pumping Station
 - Belle Chasse Hwy to Hero Cutoff, Reach 1, west of Algiers Canal

Within the West Bank and Vicinity Hurricane Protection Project, we have completed the levee enlargement along the west of Algiers Canal from Belle Chasse Highway to the Algiers Lock and work is underway for the Cousins Pump Station Expansion and the Cousins Discharge Channel and Culvert near the Lapalco Boulevard bridge. In addition, we're continuing work on a three-part contract to construct a floodwall at Ames and Mount Kennedy, improve the Mount Kennedy Pumping Station, and build a levee closure at Oak Cove. This fiscal year, we plan to award contracts for levee enlargements along the reaches extending from Belle Chasse Highway to Algiers Lock and Plaquemines Pump Station to Belle Chasse Highway on the east side of Algiers Canal. Contracts will also be awarded for levee enlargements along the reach from Belle

Chasse Highway to Hero Cutoff on the west side of Algiers Canal. These three contracts should be awarded in the next month or so.

In the Harvey Canal area, the canal was closed for 40 days in October and early November to drive pilings for a \$36 million floodgate to protect the West Bank area of New Orleans from hurricane surges. The gate is the biggest single step toward achieving a closed system of hurricane protection for 250,000 people in metro New Orleans who live on the west side of the Mississippi.

New Orleans to Venice Hurricane Protection Project

Fort Jackson to Venice

- One completed contract
 - Levee enlargement, second lift, Fort Jackson to Venice
- One scheduled contract
 - Ramp enlargement at Highway 23

Larose to Golden Meadow

- No ongoing contracts
 - Levee system is about 95 percent complete

Leon Theriot Lock Study

- Final evaluation submitted to headquarters
- South Lafourche Levee District
 - Convert existing gate
 - Non-federal funds

Our partner, the South Lafourche Levee District, has expressed interest in converting the existing gate to a lock using non-Federal funds. They hope to begin construction by the end of this month or early 2005.

Morganza, LA to the Gulf of Mexico Project Area

- Hurricane protection to portions of Terrebonne & Lafourche parishes
- Protecting 120,000 people
- Protecting 1,700 square-miles of unique wetlands
- Over \$80 million average annual benefits
 - Reach J, Segment 1 construction phase begins spring 2005

Morganza to the Gulf will provide hurricane protection to portions of Terrebonne and Lafourche parishes while maintaining the fragile ecosystems in the coastlands. The total project cost is estimated at \$740 million at October 2004 price levels. The plan includes 72 miles of earthen levee; construction of nine 56-foot wide sector-gate structures in various waterways, one 125-foot floodgate in the Gulf Intracoastal Waterway (GIWW) near Bayou Lafourche and two adjacent 125-foot floodgates near Houma. The Terrebonne Levee and Conservation District is pursuing construction of Reach J, Segment 1 that was approved by Congress in a partial project authorization. The construction phase for this work is scheduled to begin in the spring of 2005.

A prominent feature of the Morganza to the Gulf project is the multi-purpose Houma Navigation Canal Lock Complex. The current design is proceeding with a 110' x 800' lock with a sill depth of minus-23' NGVD and an adjacent 200' wide gate that will remain open most of the time.

Southeast Louisiana (SELA) Urban Flood Damage Reduction

- 34 completed contracts
 - 29 in Jefferson Parish
 - 5 in Orleans Parish
- 7 active contracts
 - Jefferson Parish
 - Canal improvement,
 - Pump station enlargement
 - New pump station
 - Orleans Parish
 - 2 new pump stations
 - Discharge channel
 - New covered canal
- No scheduled contracts
- 15 potential FY 05 contracts
 - 14 in Jefferson Parish
 - Canal improvements
 - Canal crossings
 - Equipment purchases
 - 1 in Orleans Parish
 - Dwyer Road Intake Culvert
- \$400 million in additional SELA work
 - Work contained in several Sec. 533 (d) reports for Orleans and Jefferson parishes
 - Some work recently approved for implementation
 - Design and construction dependent on funding

Hurricane Protection Study

Lake Pontchartrain & Vicinity

- Category 4 or 5 protection
 - Approved Study Reconnaissance Report
 - Developing feasibility study cost estimates
 - Awaiting Senate action for FY 05 study funding

We're looking to provide a level of protection against a Category 4 or 5 storm. The Reconnaissance Report has been approved and we're developing cost estimates for the feasibility study as funding permits.

Lower Atchafalaya Basin Reevaluation Study Area

- Raising levees; providing flood protection from backwater flooding
 - Recommending an additional study under environmental authority for a Cote Blanche Bay jetty system

Alexandria, LA to the Gulf of Mexico Study Area

- Addresses flooding in a 1,700 square-mile area extending through 9 parishes

- Signed feasibility cost sharing agreement with Rapides Parish Gravity Drainage District No. 1 in FY 03; Amended agreement in FY 04 to include DOTD after state funding became available

Donaldsonville, LA to the Gulf of Mexico

Possible Hurricane Levee Alignments

- Hurricane protection levee extending from Bayou Lafourche to the Mississippi River
 - Evaluating 2 levee alignments
 - Completing the hurricane and interior drainage modeling effort

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Louisiana Coastal Area (LCA)

- 5 near-term critical restoration features; conditional authorization
- 10 near-term critical restoration features; congressional authorization
- Science and Technology (S&T) Program
- S&T demonstration projects
- Beneficial use of dredged material
- Investigations of modifications to existing structures
- 5 large-scale long-term studies
- MRGO environmental restoration features
- Small diversion at Hope Canal
- Barataria Basin Barrier shoreline restoration, Caminada Headland, Shell Island
- Small Bayou Lafourche reintroduction
- Medium diversion at Myrtle Grove with dedicated dredging

Water Resource Development Act (WRDA)

- Morganza to the Gulf – construction authorization
- Bayou Sorrel Lock – construction authorization
- Louisiana Coastal Area – contingent authorization
- Port of Iberia – contingent authorization
- Atchafalaya Basin Floodway – modify public access feature

Partnering Conference

- March 2003
 - Initial meeting and identification of issues and work groups
- March 2004
 - Preliminary report from work groups
- March 30-31, 2005
 - Series of workshops
 - Improvements based on sponsor input