

# Delta Flood Emergency Preparedness & Response Project

**Presented By:**

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1

## Authorization

### November 2006 Election

#### Proposition 1E

- \$4.09 Billion in General Obligation Bonds
- Section 5096.821 - \$ 3 Billion
  - Central Valley Flood Control System and Delta levees
  - Reduce risk of levee failure in the Delta

#### Proposition 84

- \$5.3.88 Billion in General Obligation Bonds
- Section 75033 - \$275 Million
  - Enhance ability to respond to Delta levee breaches
  - Reduce potential for Delta levee failures
  - Improve Delta emergency response preparedness



2

# Sacramento-San Joaquin Delta



- Confluence of Sacramento and San Joaquin Rivers
- Nearly half of California's runoff passes through Delta
- Habitat for 750 fish, bird, and plant species
- Drinking water for 25 million people
- Irrigation water for 4.5 million acres



3

# Critical Infrastructure



- 6 Major Highways
- Rail Lines
- Water and Natural Gas Pipelines
- Deep Water Ports
  - Sacramento
  - Stockton
- Power Transmission Lines



4

# Large-Scale Levee Failure

- Impacts (Economic/Other)
  - Individual
  - Local agencies
  - Statewide
  - National
- Water deliveries disrupted
  - Drinking water (25 million people)
  - Agricultural water (4.5 million acres)
- ~2 years to restore deliveries

Acceptable?



5

# Project Tasks

- Evaluate & Develop Response Facilities
- Improve Logistics & Communications
- Prepare Flood Response Feasibility Studies
- Prepare Delta Flood Emergency Preparedness & Response Plan
- Develop & Coordinate Emergency Response Exercises



6

# Response Facility Development



7

# Material Storage and Transfer Facilities



- Rio Vista Stockpile (113,500 tons).
- Port of Stockton Stockpile (>100,000 tons).
- Evaluating additional facility locations



8



# Delta Working Group

- Flood Emergency Responding Partners
  - U. S. Army Corps of Engineers (USACE)
  - Federal Emergency Management Agency (FEMA)
  - Department of Water Resources (DWR)
  - California Emergency Management Agency (CalEMA)
  - Five County Operational Areas (Sacramento, San Joaquin, Contra Costa, Solano, and Yolo)
  - Reclamation Districts
- Capacity and Needs
- DWR's Delta EPRP
- Multi-agency Integrated EOP



11

# Flood Response Feasibility Studies



12

# Near-Term Actions

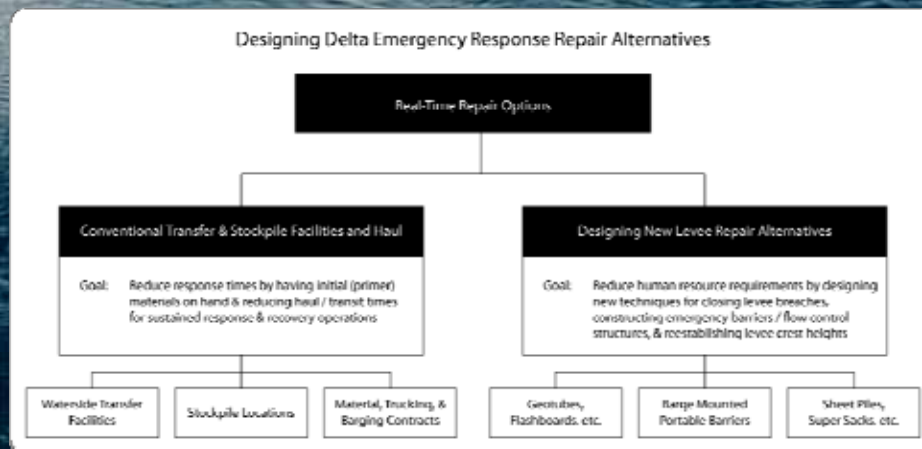
- Identify & evaluate transfer facility sites
- Identify other material & storage needs
- Evaluate & design new repair alternatives
- Develop decontamination/exposure plan
- Develop and implement analytical tools



13



# Emergency Repair Options



14

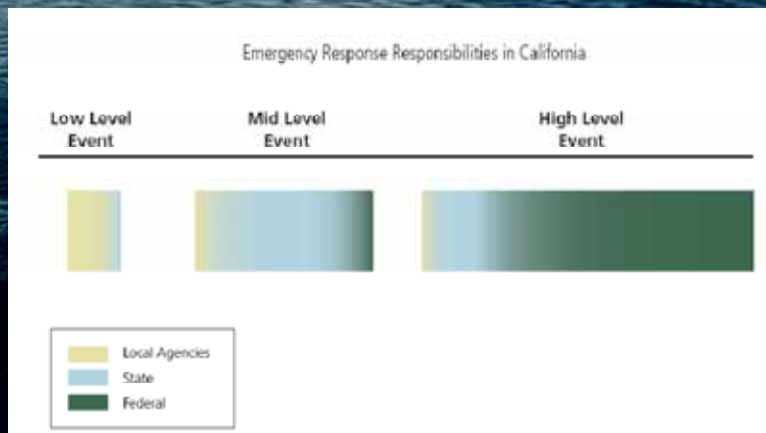


# Delta Flood Emergency Preparedness and Response Plan



15

## Scaled Response



16

# Objectives of EPRP

- Comply with SEMS and NIMS structures
- Clarify roles & responsibilities
- Strengthen partnerships
- Clarify DWR's SEMS role for Delta flood disasters
- Identify gaps in preparedness & response capabilities
- Identify/define next actions
  - Protect and stabilize water supply
  - Recovery efforts (who - what - when)



17

# EPRP Contents

## Information

- Island/Tract specific fact sheets
- Local needs & risks
- Locations of communities
- Lists of critical infrastructure
- Critical transportation routes
- Contacts

## Resources

- Transfer/Stockpile facilities
- Advanced contracts
- List of available resources

## Processes & Protocols

- Communications
- Coordination
- Facility operation plans
- Responder safety protocols

## Recommended Actions

- Flood Flight Priorities
- Incident Command Post locations
- How-To/Cut-Sheets
- Repair techniques
- Water Project operation changes



18

# Development & Coordination of Emergency Response Exercises



19

## Exercises

- December 2009 – Tabletop
- Fall 2010 – Functional
- May 2011 – Golden Guardian



20

Questions ?



21