



Flood Damage Reduction (FDR) Dam Safety (DS)

- **FDR Activities: Maintain Readiness**
 - Normal Day to Day, Scheduled Activities
- **Dam Safety Activities: Events Include:**
 - Natural Disasters
 - Structural Problems
 - Security Events

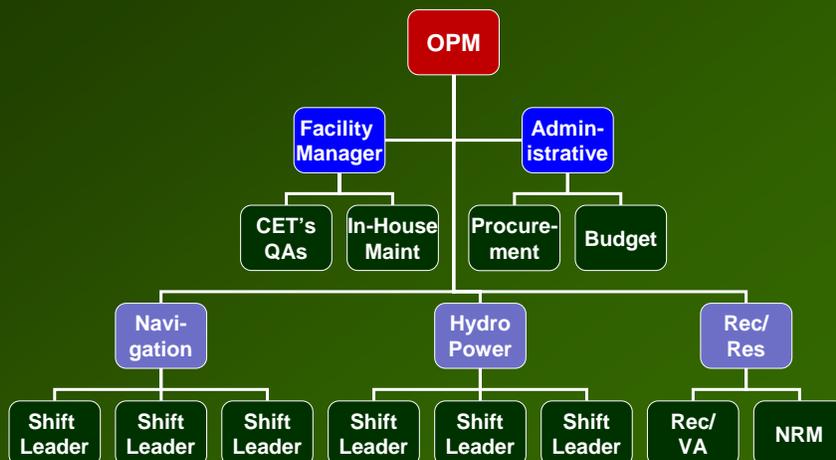


FDR – Maintain Readiness

You Need:

- ✓ Organization in Place
- ✓ Personnel in Place
- ✓ Funding
- ✓ Budget Execution
- ✓ Information Management

FDR Good Organization



FDR Good Organization

- **Organization Attributes:**
 - **Efficient/Effective**
 - **Responsive**
 - **Adaptive/Creative**
 - **Reliable**

FDR Organization - Challenges

- **FTE'S**
- **Resistance to Change/New Ideas**
- **Lack of Exposure to New Ideas**

FDR Personnel



FDR Personnel

- **Recruitment/Selection**
 - Permanent
 - Co-Op/Interns/S.T.E.P.
 - Re-Hire Of Annuitants
- **Motivate/Retain Staff**
- **Transfer Knowledge and Skills**

FDR Personnel Training

- **Formal**
 - Training Program
 - » In-House
 - » Web-Based
 - » Developmental Assignments
 - » PROSPECT, USDA, Etc.
 - PDT'S
- **Informal**
 - OJT
 - Workshops
 - Mentoring



FDR Personnel Challenges

- Aging Workforce
- Transfer Knowledge to Next Generation
- Recruit Next Generation
- Hiring Process
- Retain Trained and Knowledgeable People
- Career Path
- Competitive Sourcing
- RIFs



FDR Funding



FDR Funding Process

Budget Submittal:

- Routine Operations & Maintenance
- Non-Routine Maintenance

Packages

Identify Non-Routine Packages From:

- Annual & Periodic
Inspection Reports and
Recommended Actions
- OMP
- Daily Observations
- Automated Information
System PMI Program



FDR Funding Challenges

- Not Funded
- Under Funded
- CRA'S
- Budget Process
- Political Climate

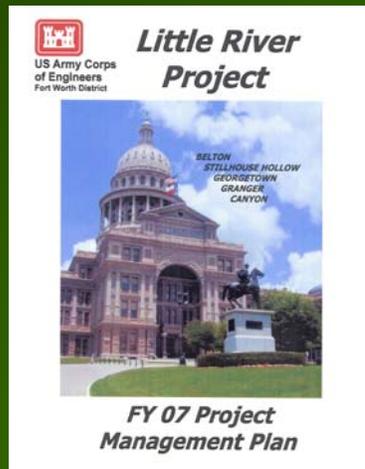


FDR Budget Execution



FDR – Budget Execution

- PgDT
 - PgMP- Overall Guidance for PMP Development
- PDT
 - PMP – Project Specific Plan
 - Deliverables
 - » Identify Work to be Accomplished
 - Timeline
 - Acquisition Plan
 - » On-Site Labor
 - » Contracts
 - Purchase Orders
 - IDIQ
 - MATOC
 - RFP, RFB
 - Design-Build
 - Trickle Down Packages
- Funds Received, Implement PMP



FDR – Budget Execution

Little River Project Office
Appendix C - Timeline for the Execution of Deliverables - FY07

* Budget Execution may be constrained by CRA's

	FY06 4th Quarter			FY07 1st Quarter				FY07 2nd Quarter				FY07 3rd Quarter			FY07 4th Quarter		
	Jul 06	Aug 06	Sep 06	Oct 06	Nov 06	Dec 06	Jan 07	Feb 07	Mar 07	Apr 07	May 07	Jun 07	Jul 07	Aug 07	Sep 07		
Planning and Quantifying for FY07 Funded Non-Routine Maintenance Packages																	
Deliverable 1 Routine Project Operations at all LRPO Lakes																	
Deliverable 2 Routine Project Maintenance at all LRPO Lakes																	
Deliverable 3 Repair spillway head-cutting, Canyon FY06 carry over, 240 Days, 1.9 million, MATOC																	
Deliverable 4 De-water stilling basin/repair concrete Canyon FY06 carry over, 120 Days, 500K, MATOC																	
Deliverable 5 *Repair Friendship Park Road, Granger FY06 carry over, 60 Days, 100K, RA Contract																	
Deliverable 6 Repair outlet works roof, Belton 300K, 90 Days, RA Contract																	
Deliverable 7 Replace photometers, Belton 150K, 120 Days, Corps Core Drill team																	
Deliverable 8 Repair air vents/service gates in tower, Stillhouse 225K, 120 Days, IDIQ-Task Order																	
Deliverable 9 Repair/Replace emergency and service gate seals, Georgetown, 300K, 120 Days, IDIQ-Task Order																	
Deliverable 10 De-water stilling basin/Periodic Insp, Georgetown 103K, 45 Days, IDIQ-Task Order																	
Deliverable 11 De-water stilling basin/Periodic Insp, Granger 103K, 45 Days, IDIQ-Task Order																	

FDR Budget Execution Challenges

- CRA'S
- Software (P2)
- Re-Programming Limits
- Lack of Repetitive Contracts (IDIQ, Consolidated Services Contract)
- Lack of Authority
 - KO Warrant
 - Ordering Officer Authority

FDR Information Management



FDR Information Management

Automated Information System

- Routine/Scheduled PMI
 - Documents PMI Results
- Imagery
 - Photos
 - GIS
 - Scanned As-Builts
- Annual/Periodic Inspection Results/Recommendations
- Historical Information
 - Dates
 - Costs
 - Vendors
 - Supplies/Materials
 - Lessons Learned
 - Archived Information



Equipment Maintenance ver. 2007 [Printer List]

Equipment Master List - Little River Project - Belton Lake

ID	Work Item	Class	Location	Assigned	Last Price	Due Date
1	PIPE-OUTLET MAINTENANCE	100	OUTLET WORKS	LRFC MAINTENANCE	06/0000	7/20/09
2	EMERGENCY CONSTRUCTION	100	OUTLET WORKS	LRFC MAINTENANCE	06/0000	7/20/09
3	SERVICE GATE NO. 1	300	OUTLET WORKS	LRFC MAINTENANCE	06/0000	06/00/09
4	SERVICE GATE NO. 2	300	OUTLET WORKS	LRFC MAINTENANCE	06/0000	06/00/09
5	SERVICE GATE NO. 3	300	OUTLET WORKS	LRFC MAINTENANCE	06/0000	7/20/09
6	VISUAL INSPECTION	100	EQUIPMENT AND RELATED STRUCTURES	LRFC MAINTENANCE	06/0000	7/20/09
7	Pipe Replacement	100	Belton Urban	LRFC MAINTENANCE	06/0000	7/20/09
8	Replacements	300	Belton Urban	LRFC MAINTENANCE	06/0000	06/00/09
9	Flowing culverts	110	Belton Urban	LRFC MAINTENANCE	11/0000	11/00/09
10	Replaces equipment	100	Belton Urban	LRFC MAINTENANCE	06/0000	7/20/09
11	Replaces equipment	110	Belton Urban	LRFC MAINTENANCE	06/0000	06/00/09
12	Replaces equipment	100	Belton Urban	LRFC MAINTENANCE	06/0000	7/20/09

FDR Information Management Challenges

FEED ME!

- Software
 - "One"
- Program
- Tool for in Return



FDR – Summary

You Need:

- ✓ Organization in Place
- ✓ Personnel in Place
- ✓ Funding
- ✓ Budget Execution
- ✓ Information Management



Dam Safety



Dam Safety

- **Natural Events**
- **Structural Events**
- **Physical Security Events**



Dam Safety Natural Events

May be Responder or Victim of Natural Disasters



Dam Safety Floods



Dam Safety Hurricanes/Tornadoes



Dam Safety Earthquakes



Dam Safety Fires



Dam Safety - Others

Wind Storms



Winter Storms



Volcanoes



Structural Events



Dam Safety Structural Event

- Poor Design
- Poor Construction
- Lack of Preventative Maintenance
- Operation Error/Misjudgment



Dam Safety Structural Event

“FIELD IS FIRST LINE OF DEFENSE”



(Not Dam Safety Course – Week long PROSPECT
Course in Dam Safety)

Structural Event Seepage



Structural Event Cracks



Structural Event Slides



Structural Event Boils



Structural Event Piping



Structural Event Concrete Failure



Dam Safety Structural Event “FIELD IS FIRST LINE OF DEFENSE”

- Stay Alert
- Be Observant
- Know What is Normal
- Know What to Do
- Report What You See



Physical Security Event



Dam Safety Physical Security Event

- National Security Event- Threat Level Raised

- Local Security

- U

- V

Entry



Managing Dam Safety Events

OPM Responsibilities Related to Natural, Structural or Physical Security Events

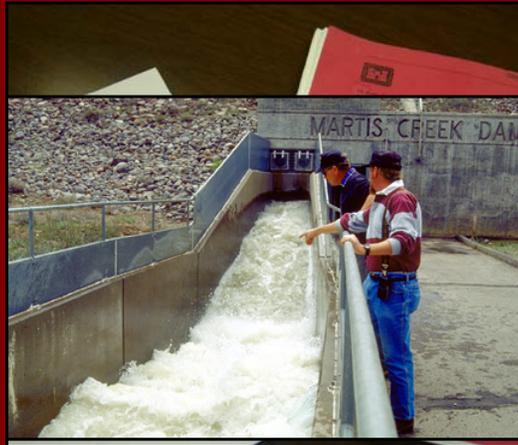


Managing Dam Safety Events

- ✓ **Plan/Prepare (Pre-Event)**
- ✓ **Respond (During Event)**
- ✓ **Recover (After the Event)**

Managing Dam Safety Events Plan /Prepare

- **Plans: Flood Emergency/Physical Security**
 - Update Annually
 - Readily Available
 - Understood by Staff
- **Training**
 - OJT
 - Workshops



Managing Dam Safety Events Plan /Prepare

- **Communication Equipment**
 - Satellite Phones
- **Specialized Equipment**
 - Emergency Generators
 - Fuel Storage



Managing Dam Safety Events Plan/Prepare

- Upgrade Physical Security Features
 - Cameras
 - Hardened Gates
 - Access Control



Managing Dam Safety Events Plan/Prepare

- Sustainability
 - Utilities
 - Food
 - Drinking Water
 - Shelter



Use Lessons Learned From Other
Events in Your Planning Efforts

Managing Dam Safety Events Respond

- Secure Facility
 - In-House
 - Contract Security



Managing Dam Safety Events Respond

- Secure Facility
 - In-House
 - Contract Security
- Initial Notifications, Request Outside Assistance
- Employee/Visitor Safety
- Implement Plan
- Accelerated Inspections/Monitoring
- Close Recreation Facilities



Managing Dam Safety Events Respond

- Information Management
 - Communication
 - In-House
 - Inter-Agency
 - Political Contacts
 - Media
 - Public
 - Consistent Message/
Accurate/Timely
- Document Event
 - Data
 - Photos
 - GIS



Managing Dam Safety Events Recover

“IT TAKES A TEAM”
Recovery is a Long Road

- Assess/Report Damage
- Prioritize
- Obtain Funds
- Perform Work
- Assist Others
- Document Lessons Learned
- May Take Years



Dam Safety - Summary

- **Natural Event**
- **Structural Event**
- **Physical Security Event**

OPM's Responsibility in Managing Dam Safety Events Summary

- ✓ **Plan/Prepare (Pre-Event)**
- ✓ **Respond (During Event)**
- ✓ **Recover (After the Event)**

FDR/DS – Final Thought

Reality – Not a Perfect World

There will never be enough:

- Time
- Money
- Manpower to accomplish everything

An OPM's responsibility is to realize this and to use all available resources effectively in order to maintain readiness of FDR Facilities and meet the challenges of the Dam Safety Program.

Questions?

