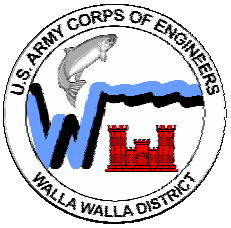


Columbia & Snake Rivers

"A Systems Approach"



One Team: Relevant, Ready, Responsive, Reliable

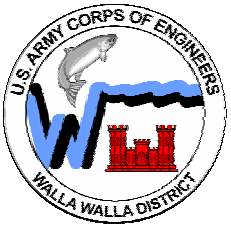


Purpose



- Our Goal
- Our Process
- Our Future

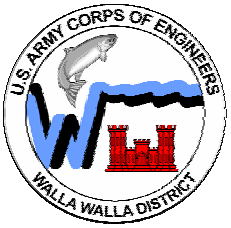




Our Goal



- A prioritized “Systems Approach”
- An Integrated Process:
 - Reliability given aging infrastructure
 - Dam Safety Program
 - Programming & Budget Development
 - Communications Strategy
- Early and more robust program coordination with stakeholders



Our Process



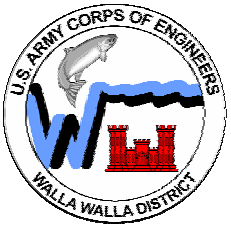
US Army Corps
of Engineers ®

Columbia/Snake River Navigation System Five-year Development Framework Fiscal Years 2009 – 2013



U.S. Army Corps of Engineers
Portland and Walla Walla Districts
Northwestern Division

March 2008

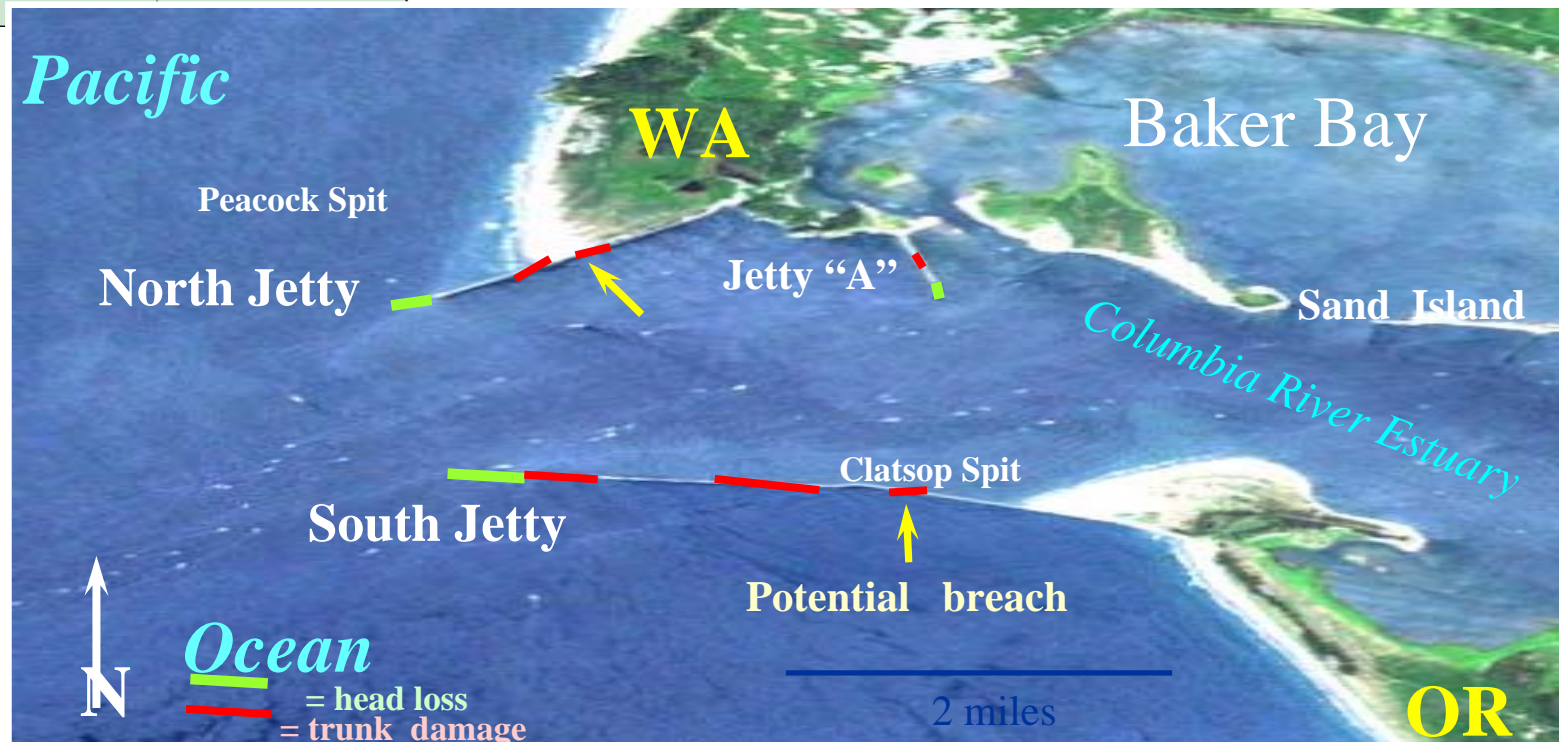


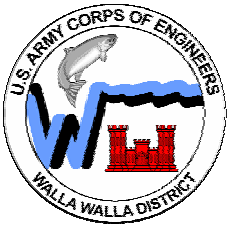
System Approach



Mouth of the Columbia River Jetties

- Interim Jetty Repairs (FY07)
- Major Rehabilitation





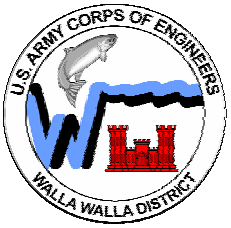
System Approach



Columbia River Channel Improvements Project

- Improve Channel from 40' to 43' depth between mouth of the Columbia River & Portland





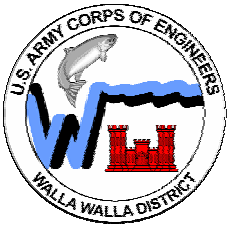
System Approach



Bonneville

- Ambersen Section Seismic Deficiency
- Study de-authorization of old navigation lock





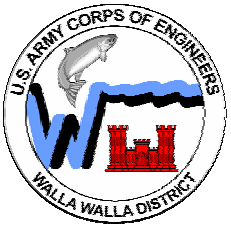
System Approach



The Dalles

- Downstream Miter Gate Pintle Bearing
- Tainter Valve Replacements





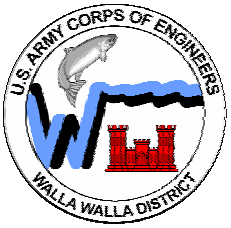
System Approach



John Day

- Major Rehabilitation
- Tainter valve replacements
- Downstream gate friction drum and wire rope replacement
- Upstream gate repairs





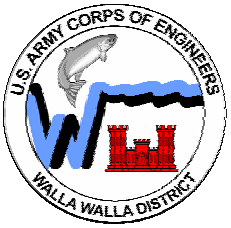
System Approach



McNary

- Miter Gate Actuating Arm Repair
- Derrick Crane Repair
- Major Maintenance Report





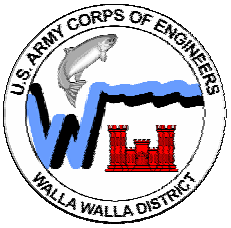
System Approach



Ice Harbor

- Pending Maintenance Report
- Downstream Gate Picking Eye
- Tainter Valve and Trashrack Seals





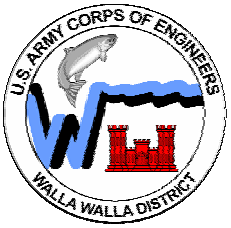
System Approach



Lower Monumental

- Major Rehabilitation
- Downstream gate repairs
- Navigation Lock Concrete Repair





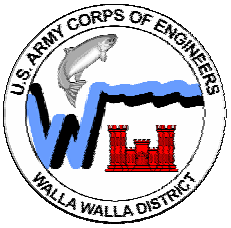
System Approach



Little Goose

- Upstream Gate Bullgear Bearing
- Pintle Heal
- Pending Maintenance Report





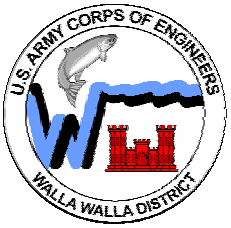
System Approach



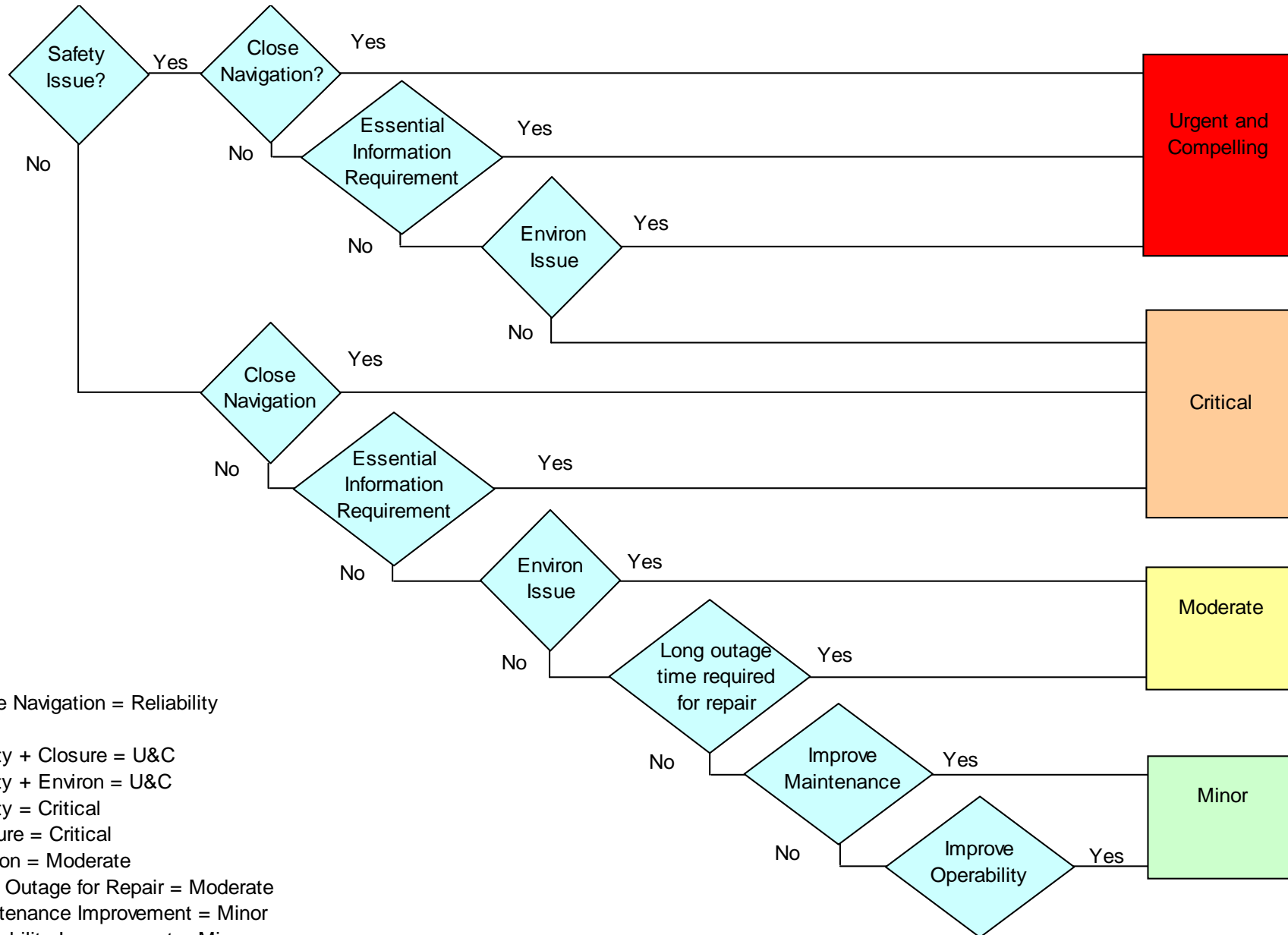
Lower Granite

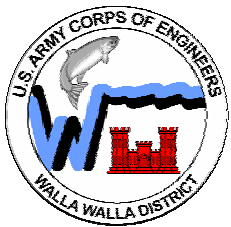
- Programmatic Sediment Management Plan
- Floating Bulkhead Repair
- Major Maintenance Report





Our Process



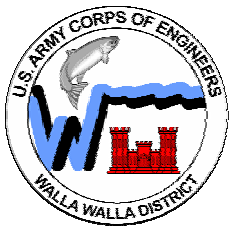


Our Process

(Results as of Feb 08)



Project	Description	Category	FY's
Bonneville	Old Navlock, Ambursen Section & Closure Mono 18	Urgent and Compelling	09, 10, 11
CRCIP	Channel Deepening	Urgent and Compelling	09, 10
Lower Monumental	Downstream Gate Interim Repairs	Urgent and Compelling	09
Lower Monumental	Major Rehabilitation	Urgent and Compelling	09, 10, 11
Lower Granite	Floating Bulkhead Repairs	Urgent and Compelling	09, 10
Lower Granite	Lock Electrical System	Urgent and Compelling	10, 11
McNary	Lock Derrick Crane Repair	Urgent and Compelling	09
McNary	Monolith Joints (repair leaks)	Urgent and Compelling	09, 10
McNary	Wall Armor	Urgent and Compelling	09, 10
McNary	Lock Electrical Distribution	Urgent and Compelling	09, 10
McNary	Bascule Bridge Electrical System	Urgent and Compelling	09, 10
McNary	Water Damaged Electrical Equipment	Urgent and Compelling	09, 10



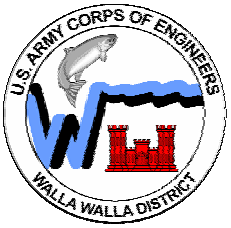
2008-2009

Urgent & Compelling



- CRCIP Columbia River Channel Deepening 08, 09
- LoMo Down Stream Gate - interim repairs 08, 09
- LoMo Major Rehabilitation 08, 09, 10

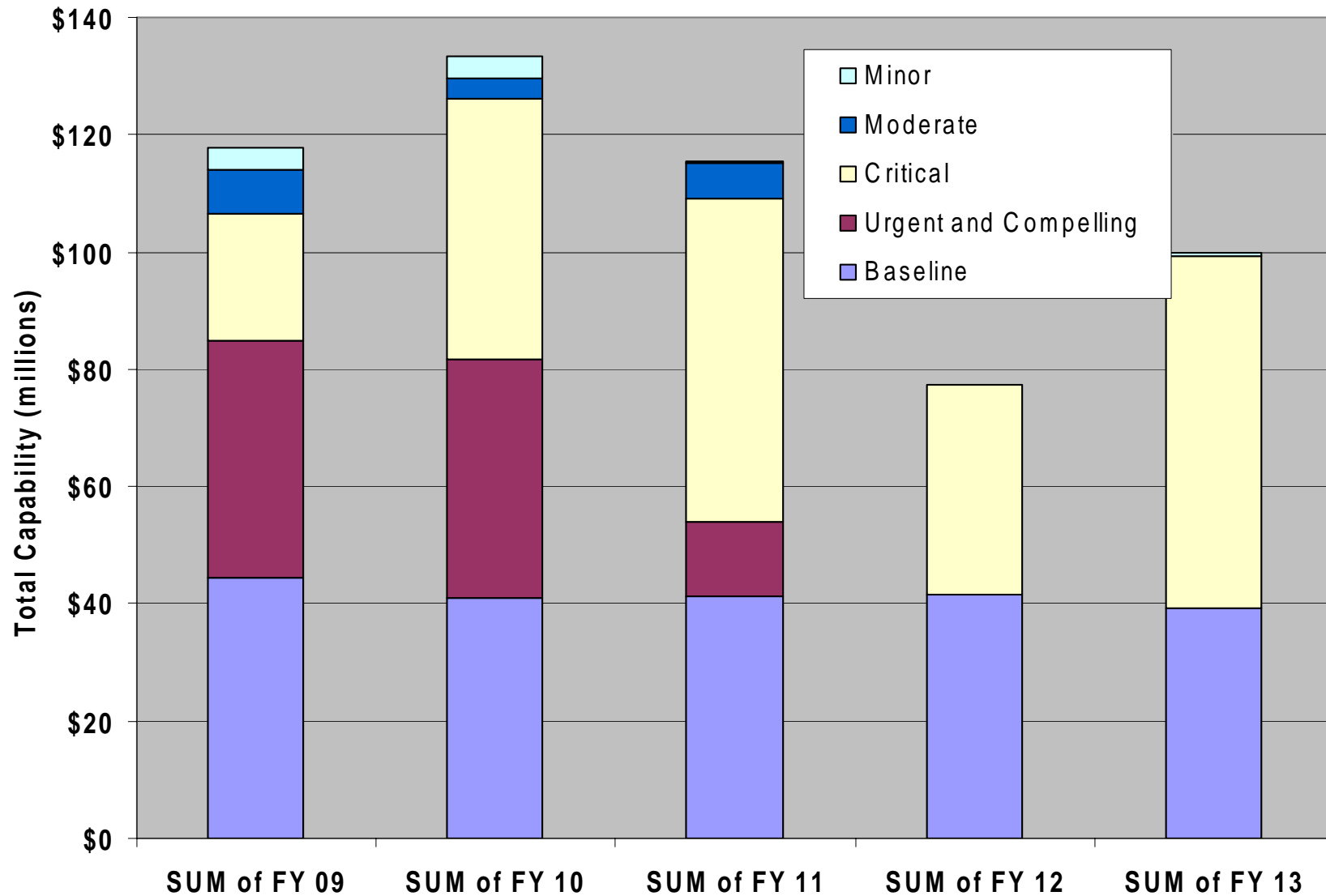
- Bonneville Old Navlock, Ambursen Section & Closure Monolith 18 09, 10, 11
- Lo Granite Floating Bulkhead Repairs 09, 10
- Lo Granite Lock Electrical System 10, 11
- McNary Lock Derrick Crane Repair 09
- McNary Monolith Joints (repair leaks) 09, 10
- McNary Wall Armor 09, 10
- McNary Lock Electrical Distribution 09, 10
- McNary Bascule Bridge Electrical System 09, 10
- McNary Water Damaged Electrical Equipment 09, 10

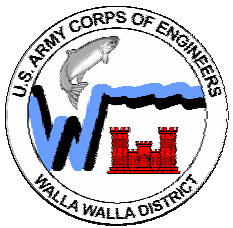


Our Process



Five Year Forecast

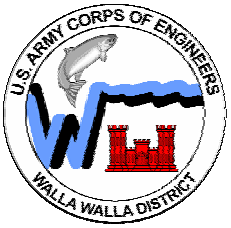




Our Future



- Integrate/Prioritize into NWD Fiscal-Year Budgeting Process
- Integrate with Critical Infrastructure / Reliability / and Dam Safety Processes
- Refine approach based on Inland Marine Transportation Improvement Report
- Develop earlier and more robust program coordination w/PNWA and other stakeholders



Questions

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Portland District