

Pittsburgh District



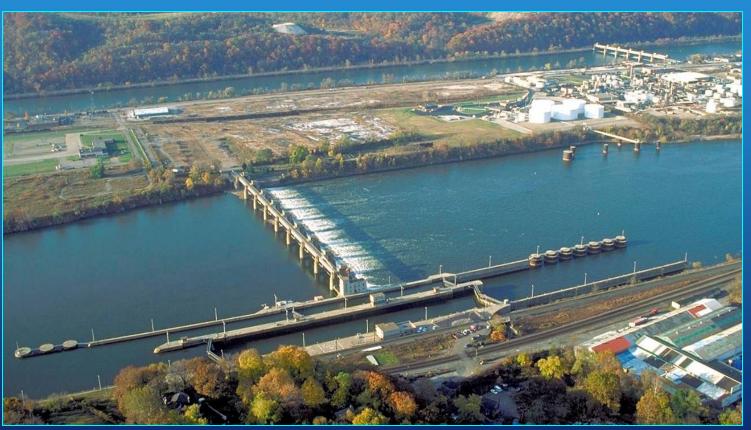
Inland Waterways Users Board Meeting
July 30-31, 2007



Agenda

- Emsworth Dams Major Rehabilitation Project Update
- Lower Monongahela River Project
 - Locks and Dams 2, 3 and 4





Michael J. Rattay

Project Manager U.S. Army Corps of Engineers, Pittsburgh District

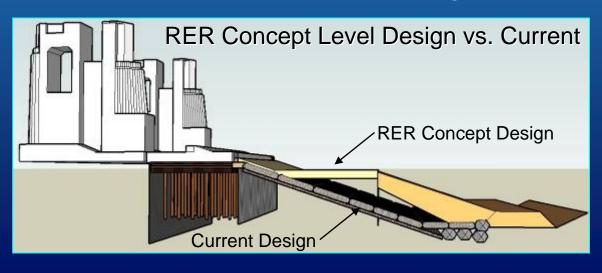


Key Actions to Date

- FY 2002 \$78.26M Major Rehabilitation Approved
 - Dam Features, Concept Scour Features and Service Bridge Features
 - Prototype Gate and Hydraulic Hoisting Machinery Installed in Gate Bay #6
- FY 2004 ASA(CW) Approved Dam Safety Wedge Funds for Major Rehab (Stability Correction)
- FY 2005 Fast Tracked Design to Construction
 - Initiated Fabrication and Construction of Lift Gates and Machinery, and Design and Fabrication of Emergency Bulkheads
 - Concurrent Hydraulic Model Study with Scour Protection Design
- FY 2006 Potential Project Cost Growth Recognized
 - VE Study of Scour Design Approved
 - Fully Funded Acquisition Plan Approved
- FY 2007 Total Project Cost Update Completed
 - Acquisition Plan Updated
 - Project Complete 2014



- Project Cost Estimate Update
- Prior to FY 2009 Budget Submission
 - May 2007 Briefed Local Navigation Stakeholders
 - June 2007 Brief WCI
 - June 2007 Completed Cost Risk Analysis
 - July 2007 Brief HQ and ASA(CW)
- Increase Positive Impact on Navigation





Lessons Learned



Design Fast Tracked





TYPICA SECTION FOR MAN AND BAD CHANNELS TYPICA SECTION FOR MAN AND BAD CHANNELS SEAR 1-97

Current Approved Acquisition Plan

Contract	Estimated Value	Scheduled Award
Emergency Bulkhead Supply	\$1.9M	Aug 2005
Back Channel Gate Rehabilitation	\$18.6M	Sep 2005
Back Channel Gate Supply	\$1.26M	Nov 2005
Emergency Bulkhead Hoist Supply	\$.8M	Sep 2006
Main Channel Abutment Stabilization	\$1 – 5M	Sep/Dec 2007
Main Channel Gate Supply	\$1 – 10M	Sep/Dec 2007
Main Channel Gates/Apron/ Scour Protection	Over \$10M	FY 2008
Back Channel Abutments Apron/ Scour Protection and Service Bridges Rehab	Over \$10M	FY 2010

PROJECT COMPLETE 2014



Locks and Dams 2, 3 and 4 Monongahela River Project



Jeanine Hoey, PE, PMP

Project Manager U.S. Army Corps of Engineers, Pittsburgh District



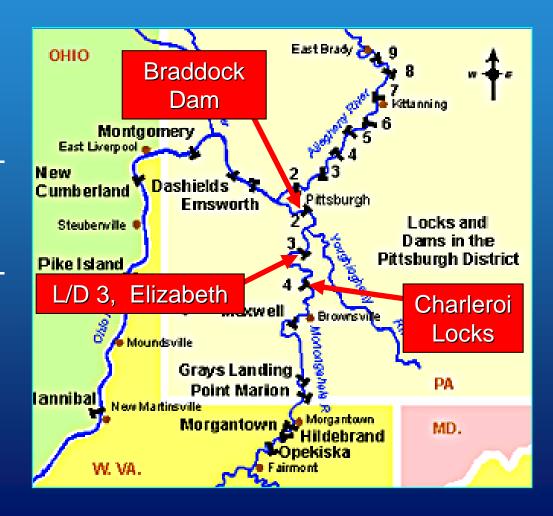
Discussion Topics

- Project Location
- Project Description
- Project Status
 - Braddock Dam Complete
 - Municipal Relocations In Progress
 - Port Perry Bridge Relocation In Progress
 - Dredging Inactive
 - Charleroi Locks In Progress
 - Removal L/D 3 Not Started
- Lower Mon Project Cost Update
- Risks
- Project Focus Areas



Project Location

- Located within 50 miles of the "Point" in Pittsburgh
- Locks and Dam 2 –
 Braddock Locks
 and Dam
- Locks and Dam 4 –
 Charleroi Locks
 and Dam
- Authorized by WRDA 1992



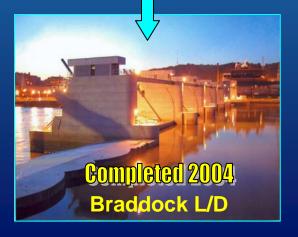


Project Description









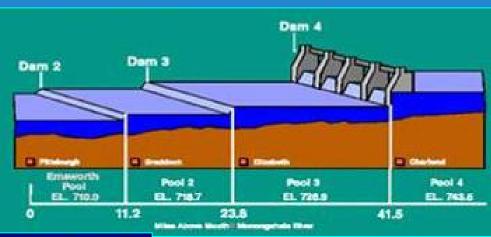


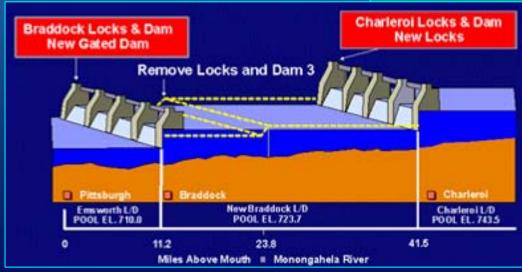




Project Description

Pre-Construction Profile



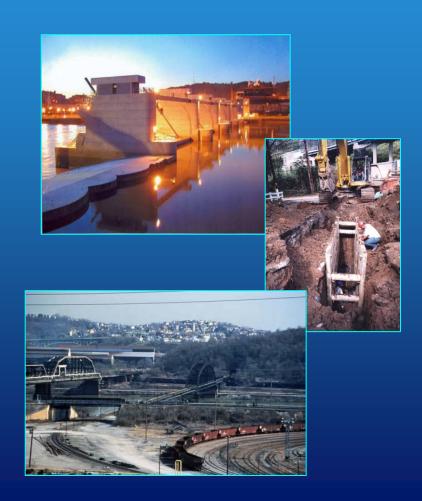


Future Profile



Status

- Braddock Dam –Complete
- Municipal Relocations –In Progress
- Port Perry BridgeRelocation In Progress
- Dredging Inactive
- Charleroi Locks In Progress
- Removal L/D 3 Not Started





Charleroi Locks

Site Development Contract - \$7.9M

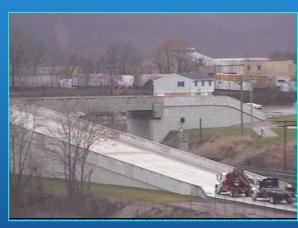
- Awarded September 2002
- Physically Complete

River Chamber Demolition Contract - \$12.9M

- Awarded September 2003
- Physically Complete

New Locks:

- Multiple Contracts
- First Contract River Wall
 - Awarded September 2004
 - Notice to Proceed May 2005
- Complete Final Contract
 - September 2016





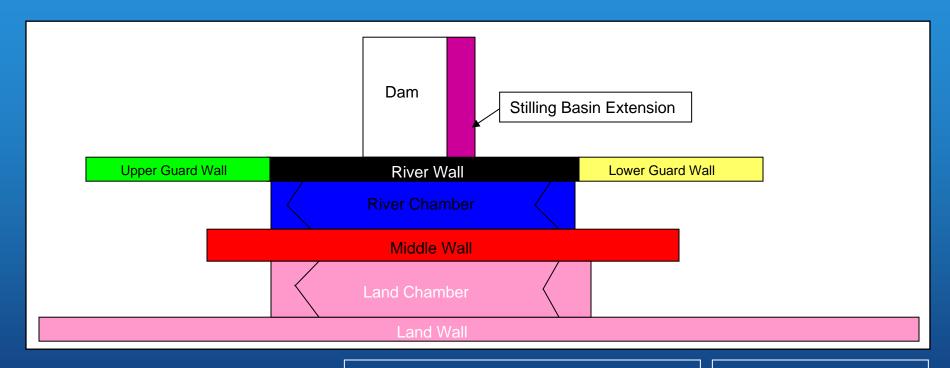


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Charleroi Construction Sequence





Pros

- 2016 Project completion
- Maximum flexibility for contractor
- Could improve upon 2016?
- Best if no constraints on funding
- Recent OMB guidance to fund Lower Mon at capability levels

Con

Requires
 commitment for
 efficient funding
 through remainder
 of project



Project Cost

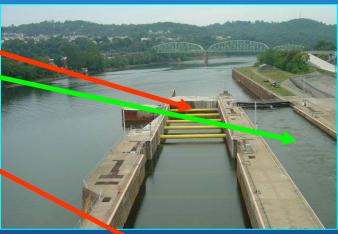
- Authorized Base Cost \$556.4M (Oct. 1991), Fully
 Funded \$750M
- Initial Scheduled Completion Date Dec. 2003
- Sunk Costs through 2006 \$343.7M
- New MCACES Project Cost Estimate



Risks

Operations

- River Chamber Demolition
- One Chamber at Locks 4
- Dam 3 has Failed
- River Chamber Contract
 - Continuing Contract
 - Significant Cost Funding Risk
- Minimize Risk
 - Complete Charleroi River Chamber
 - Remove L/D 3
 - Complete Charleroi River Chamber
 - Pool 2 Relocations
 - Dredging
 - Sustain Recent Trend in Appropriations at Capability Level

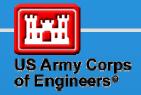






Focus

- Charleroi River Chamber in 2013
 - Perform Land Chamber Critical Maintenance Through 2011
 - Complete Pool 2 Relocations
 - Complete Pool 3 Dredging
- Remove Elizabeth in 2013
 - Perform Critical Maintenance Through 2011



Points of Contact



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