Inland Marine Transportation System Capital Investment Strategy

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Program Manager 13 April 2010





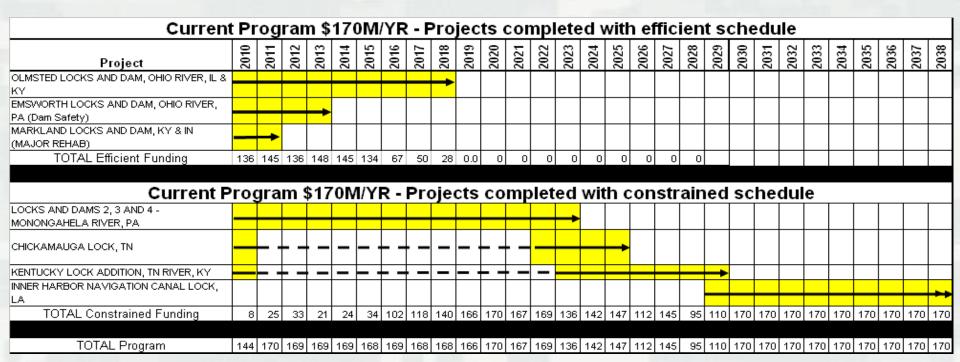


Inland Marine Transportation System (IMTS) Capital Investment Strategy

- Why
- IMTS Capital Investment Strategy
- Process Improvements
- Benefits
- Report
- Next Steps



Example IMTS Capital Investment Strategy Future Program with Current Revenues



NO NEW STARTS!!



IMTS Capital Investment Strategy Program Development

- Collaborative Team US Army Corps of Engineers and Waterways Industry (recommendations reflect those of the team, not necessarily those of the Inland Waterways Users Board, the U.S. Army Corps of Engineers or the Administration)
- Premise
 - Projects are funded efficiently
 - ► Emphasis on finishing projects
 - ▶ System evaluation
- Prioritized list used to establish program
- Total IMTS Capital Investment Program Target -\$380M/year
 - ► New construction \$320M/year
 - ▶ Major rehab \$60M/year
 - ▶ \$380M Program includes management reserve of \$30M
 - Additional out-year capacity available



IMTS Capital Investment Strategy New Construction Program

PROPOSED NEW CONSTRUCTION PROGRAM																				
Project	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
OLMSTED LOCKS AND DAM, OHIO RIVER,																				
IL & KY																				
LOCKS AND DAMS 2, 3 AND 4,																	l.			
MONONGAHELA RIVER, PA																				
CHICKAMAUGA LOCK, TN					→															
KENTUCKY LOCK ADDITION, TN RIVER,																				
KY																				
LD 25 UPPER MISSISSIPPI								†												
GIWW, HIGH ISLAND TO BRAZOS RIVER,					_															
TX																				
LAGRANGE - ILLINOIS WATERWAY														1						
INNER HARBOR NAVIGATION CANAL																				
LOCK, LA																				
GREENUP LOCKS AND DAM, OHIO RIVER,)			
KY & OH																				
LD 22 UPPER MISSISSIPPI																				†
LD 24 UPPER MISSISSIPPI																				*
			Continuing construction Construction new start											n						



IMTS Capital Investment Strategy Major Rehabilitation Program

PROPOSED	MA.	JOI	R R	EΗ	AB	ILIT	AT	101	l Pi	RO	GR.	ΑM								
Project	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
EMSWORTH LOCKS AND DAM, OHIO	2	2	2	7	7	2	2	7	7	2	7	7	7	2	2	2	7	7	7	2
RIVER, PA (Dam Safety)			→																	
MARKLAND LOCKS AND DAM, KY & IN																				
(MAJOR REHAB)	→																			
LOCK AND DAM 25, MISSISSIPPI RIVER, IL																				
& MO				→																
LAGRANGE LOCK & DAM, IL*																				
LOWER MONUMENTAL LOCK AND DAM,																				
WA																				
ILL WW THOMAS O'BRIEN LOCK & DAM					ļ															
GREENUP DAM, OHIO RIVER, KY & OH								†												
JOHN T. MYERS DAM MAJOR REHAB						†														
GREENUP LOCKS, OHIO RIVER, KY & OH*																				
MELDAHL DAM, OHIO RIVER, OH & KY								H	→											
MONTGOMERY DAM SAFETY PROJECT													_							
(MAJOR REHAB)																				
UM Mel Price																				
UM LD25 [*]																				
UM LD24 [*]																				
NO. 2 LOCK, AR															1					
JOE HARDIN LOCK, AR																				
WILLOW ISLAND LOCKS AND DAM, OHIO																			1	
RIVER, OH & WV																				
MARMET LOCKS AND DAM, KANAWHA																			—	
RIVER, WV																				
UM LD22																				\rightarrow
				Conf	tinuir	ng co	nstru	ıctior	1											

Construction new start

Cost Sharing and Revenue Plan

- Cost share recommendation
 - ► Lock New Construction and Major Rehab above \$100M: 50% Federal / 50% IWTF
 - ► Lock Major Rehab less than \$100M and Dams: 100% Federal
 - ▶ \$270M/Year Federal
 - ▶ \$110M/Year IWTF
 - Requires 30% 45% increase in fuel tax (\$0.06 \$0.09 per gal)
- Cost sharing cap
- Revenue Plan increase in current industry funding mechanism

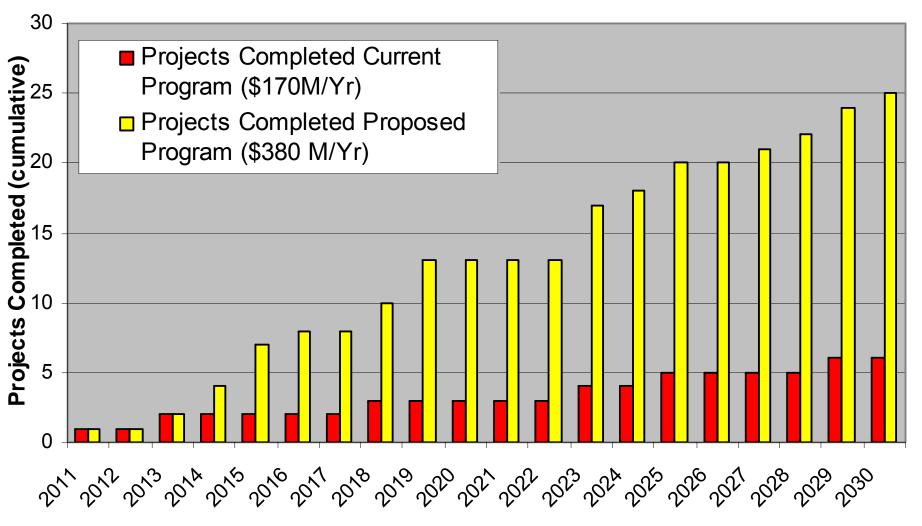


IMTS Capital Investment Strategy Project Delivery Process Recommendations

- Implemented Recommendations
 - ▶ Risk-based cost estimates
 - ▶ Independent External Peer Reviews
 - Project Management Certification
- Proposed Improvements
 - ► IMTS Capital Investment Program Regulation
 - ► IWUB representative PDT members
 - ► Project Management Plan IWUB Chairman and representative as signatories
 - Adopt applicable concepts of Milcon Model
 - Acquisition Early Contractor Involvement
 - ▶ IWUB concurrence on new starts
 - ► IWUB status briefings
 - ▶ Measure and monitor results of recommended process improvements
- Recommendations forwarded for consideration
 - ▶ Design/Review Center(s) of Expertise
 - Standardized Designs
 - ▶ Continuing Contracts Clause
 - ► Emphasis on reduced O&M expenditures



Comparison of Completed Projects



Fiscal Year

Benefits of Proposed IMTS Capital Investment Program

- Cost efficiencies \$0.5 \$2.1B in avoided cost growth on navigation projects
- Avoiding more than \$2.8B additional benefits foregone
 - ► Looking only at projects that could be completed under the current scenario (reference slide 3)
 - ▶ Benefits foregone to date at Olmsted and Lower Mon alone are \$5.2B
- Improved reliability and efficiency of IMTS
 - ▶ 5 DSAC 1 dams
 - ▶ 3 DSAC 2 dams
 - ▶ 1 lock rated as an F condition
 - ▶ 6 locks rated as a D condition
- Additional benefits of achieving IMTS improvements over shorter timeframe
 - ▶ Environmental
 - ▶ Societal benefits
 - ▶ Safety
 - Energy



IMTS Capital Projects Business Model Final Report

- Executive Summary
- Background
- Capital Project Business Model Prior and Current
- Capital Project Business Model Future
- Twenty-Year Capital Investment Strategy
- Cost Sharing Model and Revenue Plan
- Implementation Strategy
- Summary of Final Recommendations



Next Steps

- ► Full implementation timeline dependent on Congressional action
 - WRDA legislation
 - Appropriations





