

NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

Inland Waterways Users Board
Meeting No. 101
October 19, 2023

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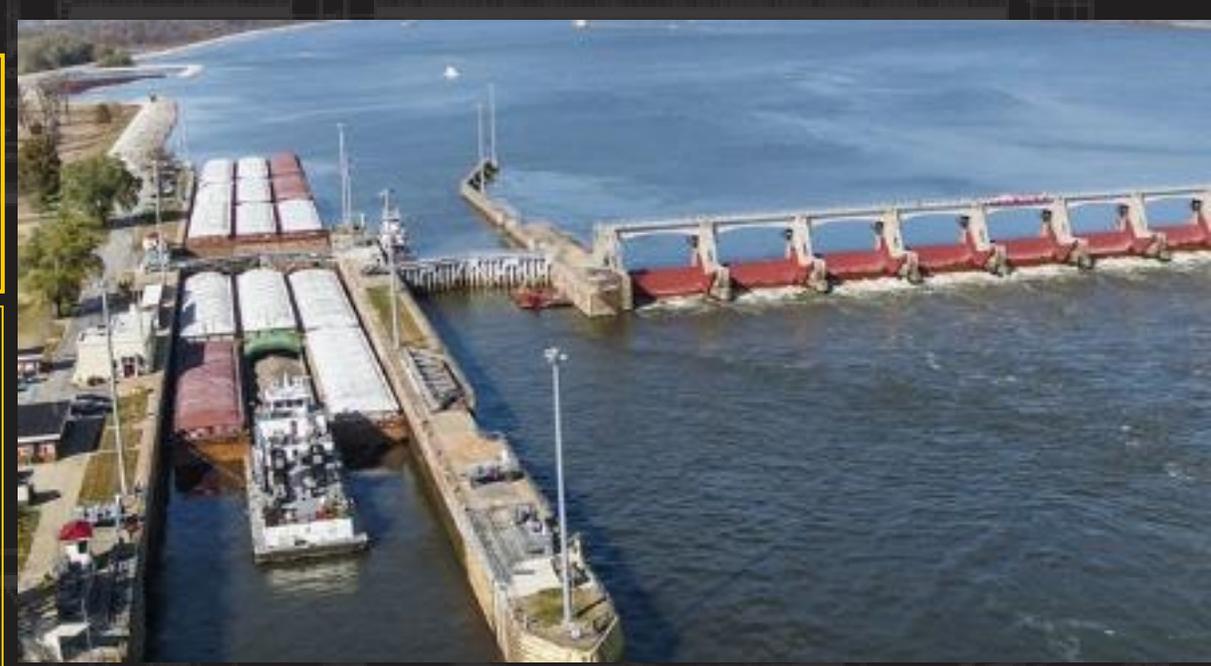
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MISSISSIPPI RIVER LOCK 25-OVERVIEW



Authorization: Title VIII of Water Resources Development Act (WRDA) 2007, P.L. 110-114 and WRDA 2022, P.L. 117-263. Authorized cost in legislation is at the Navigation Ecosystem Sustainability Program (NESP) level, not for the individual projects. In FY22, 1st Construction appropriations (\$732M) via the Bipartisan Infrastructure Law (BIL).

Purpose/Description: The construction of a new 1200-foot lock at Lock & Dam 25 will significantly reduce delays and increase safety. Proposed project features include construction of new 1200-foot pile founded lock located in the auxiliary miter gate bay, construction of an upstream ported guard wall totaling 1200-feet, and a 650-foot downstream approach wall.

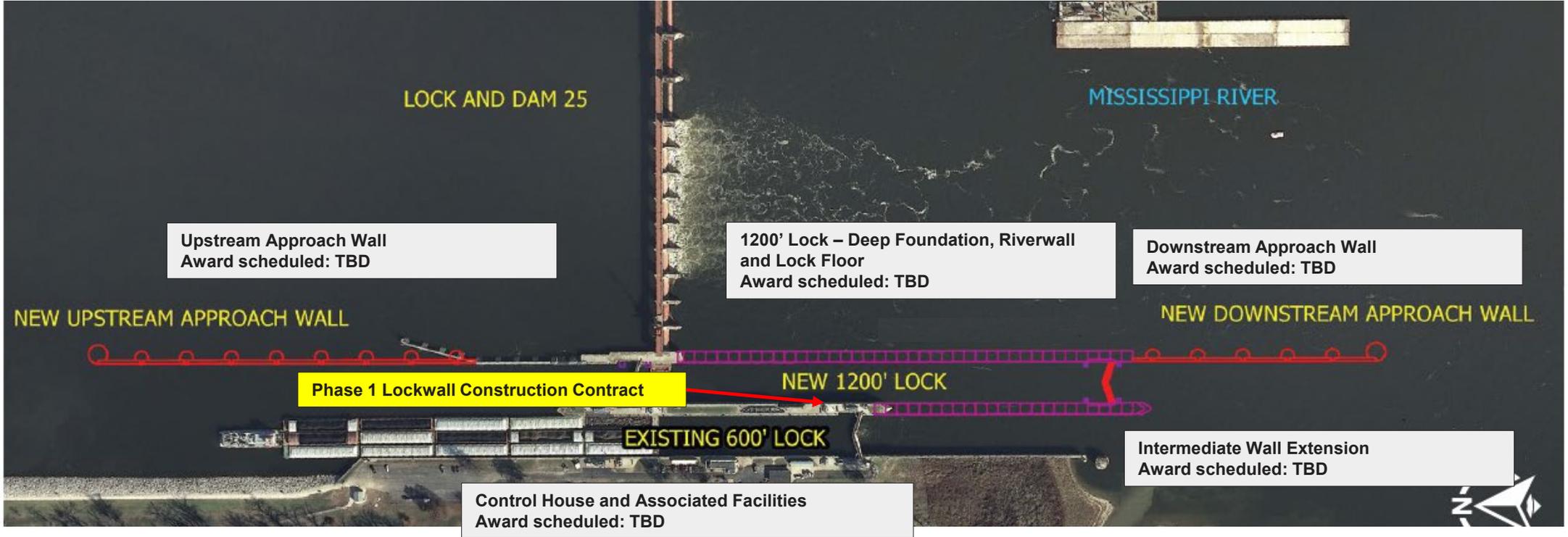
Schedule: Current lock operational date is October 2034. Current project fiscal completion date is September 2036.

Cost: Cost update complete, the update is considered procurement sensitive information due to the Early Contractor Involvement (ECI)-Integrated Design and Construction (IDaC) contract type and will be released after the procurement is completed.



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MISSISSIPPI RIVER LOCK 25 NEW 1200' LOCK-SCOPE



TBD is in relation to construction activities within pending contract award for ECI-IDaC

Contract Legend

Completed
Current
Future



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MISSISSIPPI RIVER LOCK 25–BLUF STATUS / DASHBOARD

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PROJECT SAFETY



No lost time accidents
Phase 1 – Lockwall
Modification

PROJECT STATUS SUMMARY



Phase 1 – Contractor schedule accepted
Contract Complete Milestone: 21 May 2024

Phase 2 – Design is on schedule
Schedule Performance Index: 0.95

Next Major Contract Award(s):

- March 2024 – Phase 2 ECI-IDaC
- March 2024 – Bulkhead Fab and Supply

FINANCIAL STATUS SUMMARY



Design is on budget
Planned: \$23.1M
Earned: \$22.0M
Actual: \$17.9M
Cost Performance Index: 1.23

*through September 2023

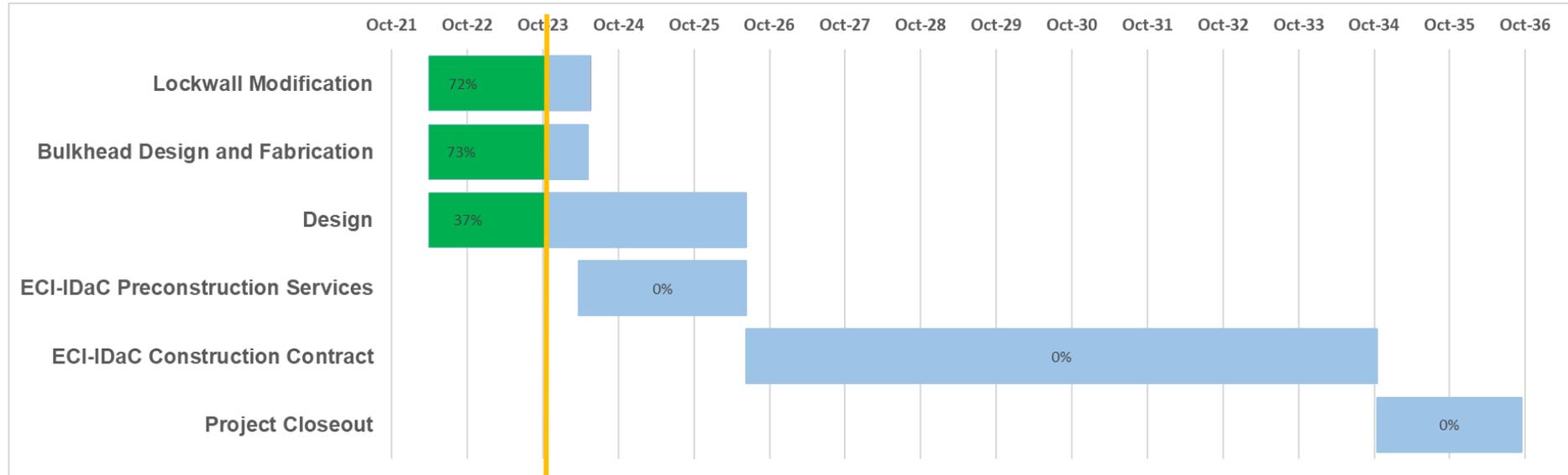
EXECUTIVE SUMMARY:

- Acquisition using Early Contractor Involvement (ECI) – Integrated Design and Construction (IDaC)
 - Bids received on 29 September 2023.
 - ECI-IDaC continues to be strongly supported by industry
 - Market escalation risk is still being felt by industry and remains a cost risk for project
- Began the 35% design review on schedule, 35% design scheduled to complete 13 November.
- Bulkhead supply contract in BCOES review phase which is scheduled to complete 18 October.
- Starting the real estate acquisition process for staging and laydown areas
- Starting the real estate acquisition process for borrow areas
- Contract placements have begun for Phase 1 construction contract



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MISSISSIPPI RIVER LOCK 25—SCHEDULE/FUNDING



WE ARE HERE

Schedule comments:

- Design is progressing on schedule
- Acquisition is progressing on schedule and in parallel with design. Upcoming scheduled items:
 - ECI-IDaC Preconstruction Services Award in March 2024
 - ECI-IDaC Construction Option Award in June 2026
 - ECI-IDaC Construction Complete in October 2034
- Preconstruction Services will include contractor involvement with the design team and will facilitate collaboration with end-user as well.
- Construction schedule is informed by actual production rates and current understanding of constraints as well as input from construction industry.



MISSISSIPPI RIVER LOCK 25—FUNDING SUMMARY

Allocations:	ARRA (\$M)	CG(\$M)	IWTF(\$M)	BIL(\$M)	Total(\$M)
Prior to FY 20:					\$0
FY 20:					\$0
FY 20:					\$0
FY 21:					\$0
FY 22:				\$732	\$732
FY 23:					\$0
Total to Date:				\$732	\$732
Remaining TPC Balance:					TBD

Total Project Cost (TPC)	\$xxx.x M	Cert. date
Authorized Cost:	\$xxx.x M	WRDA 20XX
Escalated Cost:	\$xxx.x M	Date
902 Limit:	\$xxx.x M	Date
PED Cost:	\$xx.x M	Date
EDC Cost:	\$xx.x M	Date
S&A Cost:	\$xx.x M	Date

Fiscal Year Funding Capabilities: Cost certification complete; considered procurement sensitive due to ECI-IDaC

FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	TOTAL
TBD	TBD									

Commentary:

- There is no authorized cost specific for Lock 25, the Navigation and Ecosystem Sustainability Program carries the authorized cost at the program level.



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MISSISSIPPI RIVER LOCK 25—ISSUES/CHALLENGES

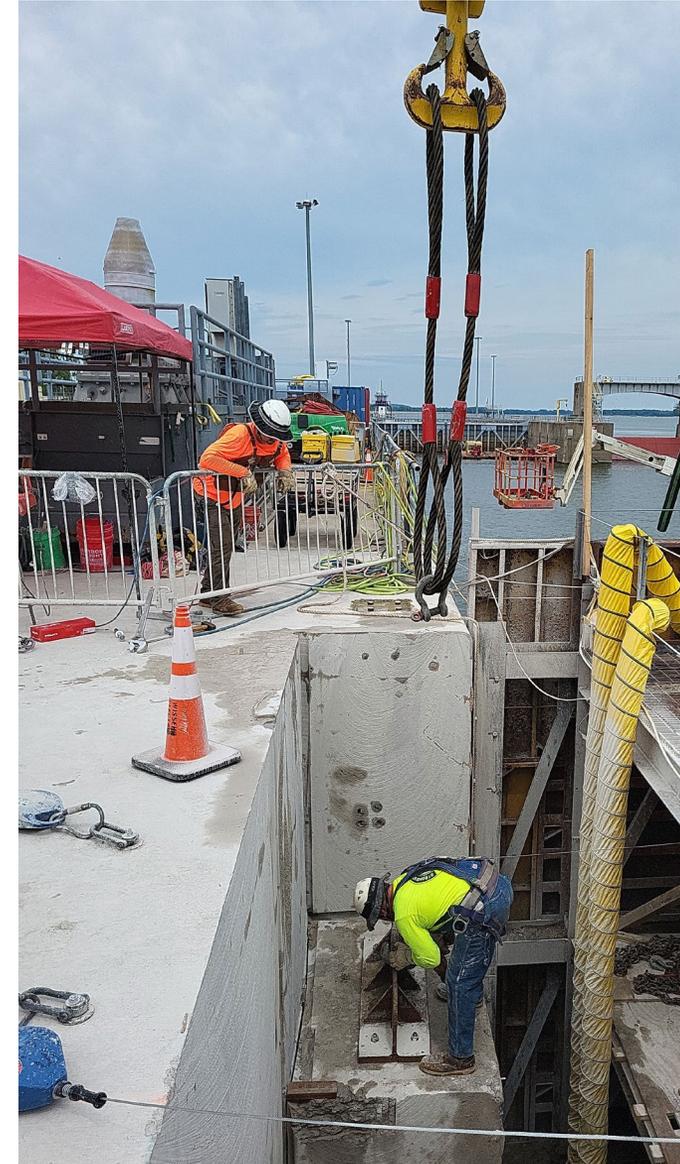


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- **Progress:** Phase 1 Lockwall Construction Contract
 - Awarded 6 September 2022
 - NTP issued October 2022
 - Construction completion February 2024.
 - \$8.4M Firm Fixed Price Contract
- **Challenge:** Minimize impacts to navigation industry during lock construction
- **Mitigation Strategies:**
 - Integrated Design and Construction (IDaC) will allow proper coordination between USACE, Navigation, and Construction Industry
 - Continued Navigation and Construction industry collaboration to inform intermediate wall design and operational capabilities
- **Challenge:** Construction Market Inflation and Labor/Material Availability
- **Primary Mitigation Strategy:** Early Contractor Involvement will allow proper coordination between USACE, Navigation, and Construction Industry



MISSISSIPPI RIVER LOCK 25—PROGRESS





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ILLINOIS WATERWAY LAGRANGE LOCK-OVERVIEW



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Authorization: Title VIII of Water Resources Development Act (WRDA) 2007, P.L. 110-114 and WRDA 2022, P.L. 117-263. A total of \$69.3M was received through Congressionally directed spending in FY22 and FY23, this fully funded design activities for the project.

Purpose/Description: The construction of a new 1200-foot lock at LaGrange will significantly reduce delays and increase safety. Project features include construction of new 1200-foot lock located landward of the existing 600' lock, upstream and downstream approach channels, and associated guidewalls.

Schedule: The initial construction contracts for site development and machinery fabrication will be ready for contract award in September 2024, pending construction funding.

Cost: The comprehensive cost estimate development is scheduled to begin in March 2024.



ILLINOIS WATERWAY LAGRANGE LOCK-SCOPE



All listed features are future contracts, TBD

Contract Legend

Completed
Current
Future



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ILLINOIS WATERWAY LAGRANGE LOCK-BLUF STATUS / DASHBOARD



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PROJECT SAFETY	PROJECT STATUS SUMMARY	FINANCIAL STATUS SUMMARY
<i>USACE Safety stats TBD</i>	<p>Schedule:</p> <p><i>Schedule in development</i></p> <p>Next Major Contract Award(s):</p> <ul style="list-style-type: none"> September 2023 – 100% Design task order awarded. 	<i>Financial Status Summary TBD</i>

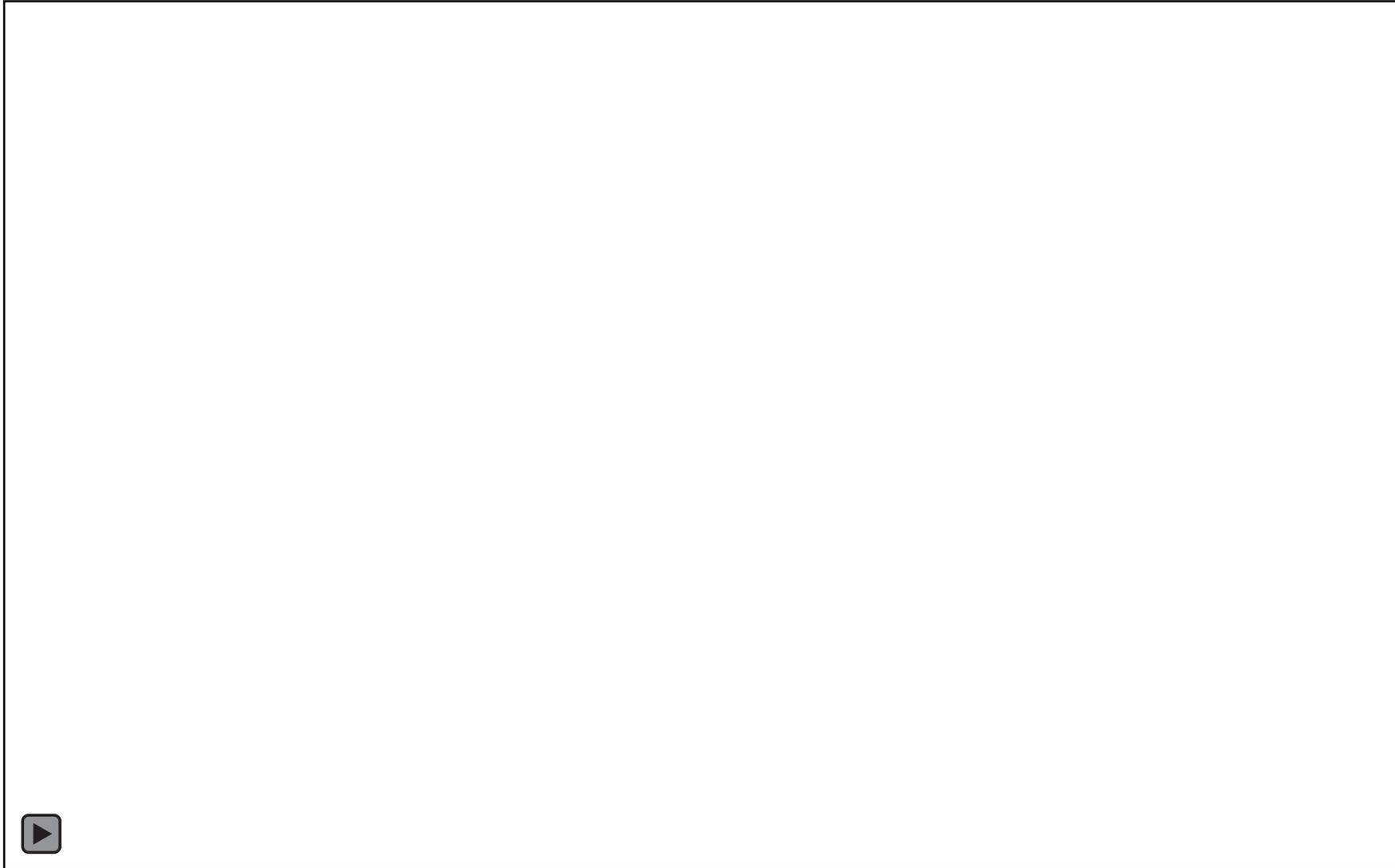
EXECUTIVE SUMMARY:

- Configuration of new lock has been successfully tested at the USACE Engineer Research Development Center physical model. Ship Simulation and Industry visit to the model scheduled for February 2024. Coordination continuing with the Illinois River Carriers Association.
- Fiscal year 2022 task order (5%-35%) ongoing tasks include:
 - Geotechnical investigations, lock design, hydraulic modeling, site surveys, cultural surveys, real estate documentation, and initial design.
- Fiscal year 2023 design task order for 100% design was awarded on schedule. All project design features for final plans and specifications are included in the task order.
 - Construction documents for the machinery and steel structures supply contracts and utility relocation/site development will be complete in July 2024, ensuring they are ready for construction contract solicitation and award in fiscal year 2024 pending appropriations.
- Acquisition strategy development. The initial construction contractor industry day occurred on 12 July 2023 in Meredosia, IL.



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ILLINOIS WATERWAY LAGRANGE LOCK- PROGRESS





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THANK YOU



Lock 25



LaGrange