

# MISSISSIPPI RIVER LOCK 25 UPDATE

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# PROJECT OVERVIEW OF SCOPE

- Lock 25 is one of seven 1200' lock chambers included in the Navigation and Ecosystem Sustainability Program (NESP) authorized by WRDA 07.
- The project scope includes a new 1200' lock chamber adjacent to the existing 600' chamber and upstream/downstream approach walls.
- A construction new start is required along with construction funding.





# PROJECT OVERVIEW CONTINUED





# SCHEDULE- WORK DONE IN FY21



- Construction funding has not been appropriated to date, only design activities have been accomplished with overall design at approximately 40% completion.
- Design activities in FY21 included:
  - Plan for lock completion (design and construction)
  - Lockwall modifications plans and specifications
  - Scour remediation and seismic evaluation
  - 3D seepage modeling
  - Comprehensive lock dewatering plan
  - Lockwall monolith concept study



# SCHEDULE- ONGOING AND PLANNED WORK FOR FY22



- The Lock 25 1200' lock (along with other NESP navigation and ecosystem projects) are investment candidates for the Infrastructure Investment and Jobs Act.
- A phased construction plan was developed in FY21 to accommodate execution of the project under presumed funding constraints. Overall an additional \$25 million is required to complete design of all phases over a 4 year period. Construction of initial phases would begin prior to completion of design work for later phases.
- If unconstrained or full funding and the new start is provided, the execution strategy will be re-evaluated depending on the amount received. In addition,
  - All contracting methods will be considered, driven by the funding execution requirements.
  - The Inland Navigation Design Center (INDC) is, and continues to be, embedded with the PDT to share knowledge and best practices on other current navigation mega-projects.



# COST/FUNDING OVERVIEW



- \$5M total in design funding was executed for the project in FY20 and FY21.
- Cost to complete project is \$732.1M, comprised of the 4 contracts listed below.

Activity	Contract Award	Estimated Cost
Contract 1 – Lockwall modifications	+6 months from construction new start	\$10.8M
Contract 2 – River Wall Transition Monoliths, Civil Site, and Pile Load Testing	+24 months from construction new start	\$48.6M
Contract 3 – Scour Hole & Remainder of Lock	+42 months from construction new start	\$553.9M
Contract 4 – Approach Walls and Demo of Existing Guard Walls	+54 months from construction new start	\$118.8M

**\*\*Timeframes for major activities listed are under a typical constrained funding scenario\*\***



# PROJECT ISSUES AND CHALLENGES



- A construction new start is required along with construction funding.
- Three winter closures are required to construct the project in order to minimize impacts to navigation.
- Remediation of a large scour hole in the project footprint is required prior to new lock construction.



# THANK YOU

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