#### NESP LOCK 25 NEW 1200FT LOCK PROJECT

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# **PROJECT LOCATION**



 Lock and Dam 25 is located in Calhoun County, Illinois, and Lincoln County, Missouri, at approximately Mile 241.4 on the Upper Mississippi River above the mouth of the Ohio River near Winfield, Missouri.





## **PROJECT OVERVIEW**



- Lock 25 is one of seven 1200' lock chambers included in the Navigation and Ecosystem Sustainability Program (NESP) authorized by WRDA 07.
- The primary purpose of the project is to improve efficiency, reliability, and safety for Navigation traffic transiting the facility along with additional operational redundancy at Lock 25.
- Significant objective of Lock 25 is to standardize as much as possible for subsequent NESP lock design and construction to simplify engineering and design, improve delivery schedule and cost, and ensure operation and maintenance is consistent.
- The project was fully funded (\$732M) via the Infrastructure Improvement and Jobs Act (IIJA) in FY22 and received a New Start for Construction





SITE PLAN







#### **EXISTING SITE LAYOUT**



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### **PROJECT OBJECTIVES**



- Design and construction of a new 1,200-foot pile-founded lock chamber to be constructed on the downstream side of the existing auxiliary miter gate bay.
- Design and construction of a new upstream, ported approach wall.
- Design and construction of a downstream approach wall designed to block flow through the wall.
- The existing 600-foot lock will remain in operation during the design and construction of the new lock and will become an auxiliary lock chamber after completion.





# **CONSTRUCTION SEQUENCE**



- A phased construction plan was developed in FY21 to accommodate execution of the project under presumed funding constraints.
- Plan is to use this developed plan as a baseline and adapt for full funding scenario to find design and scheduling efficiencies where construction of initial phases can begin prior to completion of design work for later phases.
- Anticipated construction sequence:
  - Phase 1 construction contract to be awarded in late FY22
  - Scour hole remediation and construction of stability berm
  - Civil site improvements
  - Install piles for new monoliths and approach walls
  - Construct 66 new lock wall monoliths (Intermediate wall monoliths during winter closures)
  - Demolish the existing upstream approach wall and construct new upstream and downstream approach walls (parallel activity with monolith construction)
  - Install dewatering system and dewater the lock chamber for completion of the lock floor elements



# PHASE 1 CONSTRUCTION CONTRACT



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 Phase 1 of the phased construction plan was developed in FY21 to a 95% level. The PDT is working to wrap up the P&S package with a goal to award a construction contract still in FY22.







### **CIVIL SITE IMPROVEMENTS**



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• Currently at a 35% design level, but could be accelerated with full funding to allow work to begin with real estate acquisition for staging and laydown areas and begin site upgrades (roads, power distribution, etc.) while remainder of lock is designed.





# FUTURE ENGAGEMENTS WITH INDUSTRY FOR NESP L25 1200FT LOCK



- Phase 1 Construction
  - Look for a **sources sought** request in the next couple of weeks regarding the Phase 1 Construction Requirement
  - Phase 1 Construction Requirement **solicitation** is anticipated to open sometime in late May to early June timeframe
  - A **pre-bid site visit** for the Phase 1 Construction requirement is planned to be scheduled during the solicitation period. Details of that visit will be included in the actual construction solicitation
- Remainder of Lock Construction Industry Engagement
  - We are planning an initial L25 1200ft Lock **industry day** in June 2022. This date is preliminary and scope is still being developed.
  - We anticipate using this initial engagement to **share further information** on the project scope and anticipated delivery method.
  - Our planned objective for this engagement will be to **elicit industry feedback** on the preliminary plan in order to maximize the efficiency of project delivery.