

Locks 27, Mississippi River Major Rehabilitation Update

19 December 2012

Joe Kellett
St. Louis District



US Army Corps of Engineers
BUILDING STRONG[®]





Locks No. 27, Mississippi River Major Rehabilitation - Background

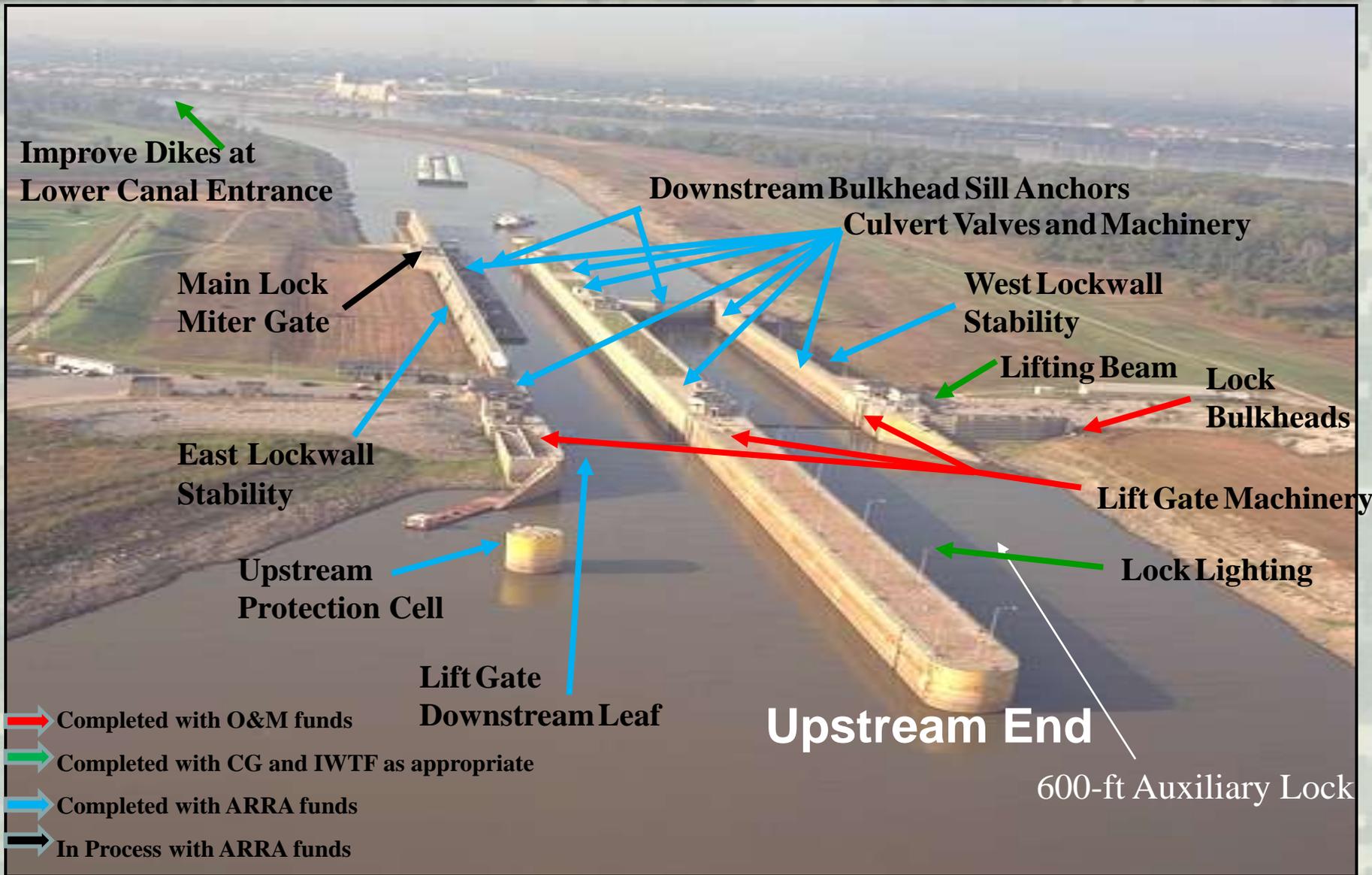
- Last original lock constructed on the Upper Mississippi River
- 1954 Construction Completed
- Constructed in the Chain of Rocks Canal
- Located Downstream from the Mississippi and Missouri River Confluence
- Locks more tonnage than any lock on the Upper Mississippi River
- Located immediately upstream from the St. Louis Port. (3rd largest inland port by tonnage)
- No dam is associated with this lock. There is an overflow structure located in the Mississippi River Chain of Rocks
- 1990s lift gate repaired on emergency basis, embedded metals replaced & Lock controls modernized
- 2002 Major Rehabilitation Report Approved
- 2008 Received initial Construction General Funds
- 2009 Received ARRA Funds for construction





Locks No. 27, Mississippi River

Major Rehabilitation - Scheduled repairs





Locks No. 27, Mississippi River Major Rehabilitation - Funding

Funding Sources

ARRA	\$28.9 Million
O&M	\$13.5 Million
CG	\$ 3.1 Million
CG cost shared	\$ 3.7 Million
<u>IWTF</u>	<u>\$ 3.7 Million</u>
TOTAL	\$52.9 Million





Locks No. 27, Mississippi River Major Rehabilitation - Contract Status

Current Construction Contracts

- Fabrication of downstream miter gates
- Installation of downstream miter gates on main lock
- Embedded Metals Replacement

Current Status

- Gates fabricated and ready for shipping
- Main lock closed on 10 Dec 2012
- Dewatering completed on 13 Dec 2012
- Removing concrete to embed metals
- Rewatering scheduled for 27 Feb 2013
- Main lock scheduled to reopen on 1 Mar 2013





Locks No. 27, Mississippi River Major Rehabilitation - Downstream Guide Cell



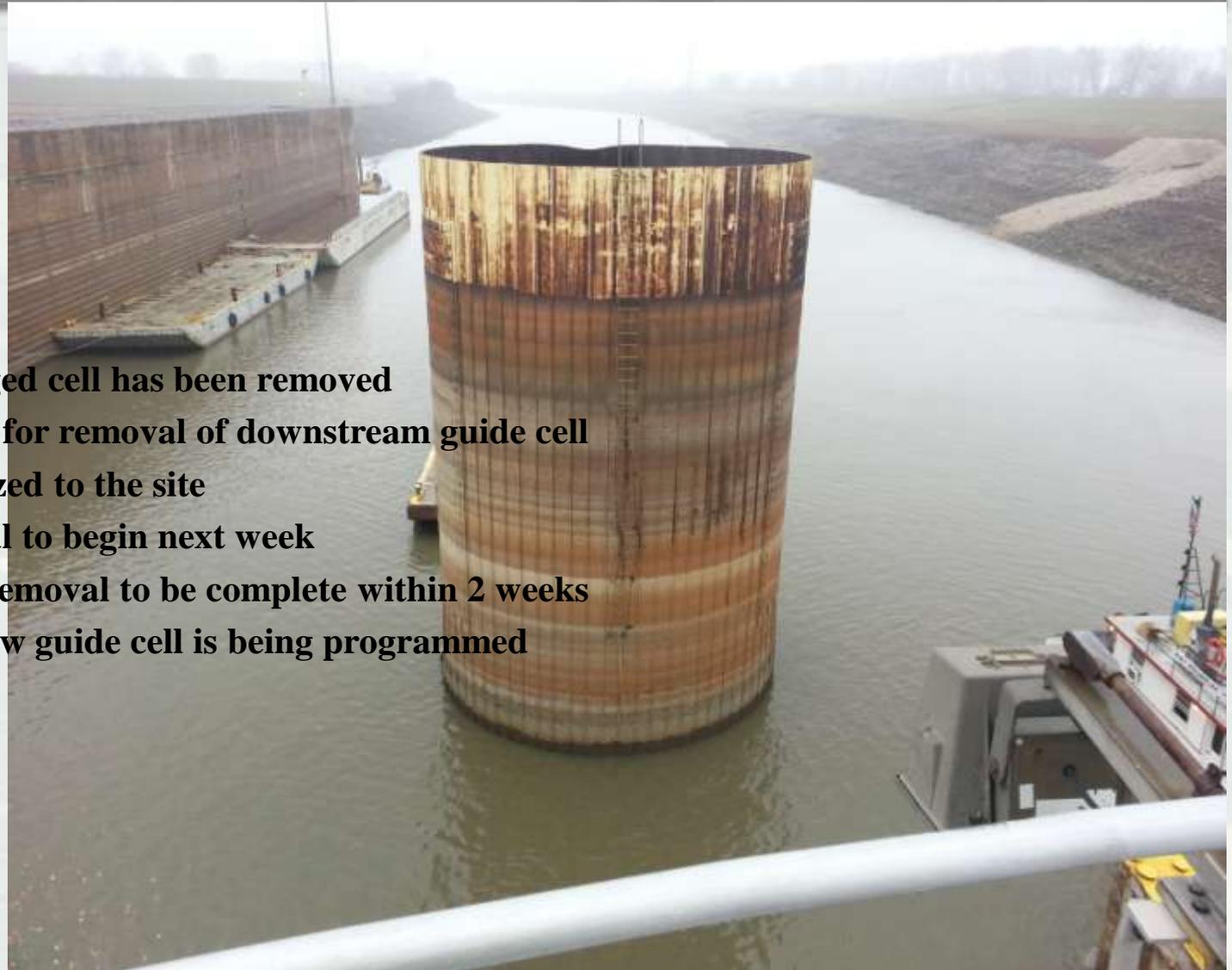
PURPOSE OF GUIDE CELL:

- Cell allows tows to “heel” and align for proper approach
- Canal is a slack water area, which makes it very difficult to navigate the tow



Locks No. 27, Mississippi River Major Rehabilitation - Guide Cell Status

- Rock in the damaged cell has been removed
- Contract awarded for removal of downstream guide cell
- Contractor mobilized to the site
- Guide Cell removal to begin next week
- Expect guide cell removal to be complete within 2 weeks
- Funding for the new guide cell is being programmed





Locks No. 27, Mississippi River Major Rehabilitation - Questions



BUILDING STRONG®