

Chickamauga Lock Update Inland Waterways Users Board Meeting No. 84

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Kentucky Lock Addition
Nashville District
19 July 2017



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Chickamauga Lock Replacement BLUF

- **Bottom Line Up Front**

- Lock Excavation contract is progressing. Remaining contract options will be exercised by 31 July 2017. Expiration dates for the options were extended from 31 May at no additional cost.
- Lock Chamber contract package was advertised on 19 June 2017, with a bid opening scheduled for 23 Aug 2017. Anticipate awarding the contract in Sept 2017. Scope includes concrete placements and installing previously fabricated steel components.
- District is developing a Post Authorization Change Report (PACR) due to certified total project cost estimate of \$755M exceeding the current authorized 902 limit of \$482M.

Chickamauga – Project Overview

Road & Bridges - \$6M
Completed Feb 2007

Decommissioning/Site Work
Award scheduled: Sep '20

Lock Chamber
Award scheduled: Sep '17

Lock Excavation - \$33.2M
Sep '16 Award Base and 2
Options at \$26M.

Lock & Associated Facilities	\$749M
Road and Bridges	6M
Total	\$755M

\$216M Obl thru 2nd Qtr FY17 = 29% complete

Bridge Fabrication - \$400K
Completed June 2011

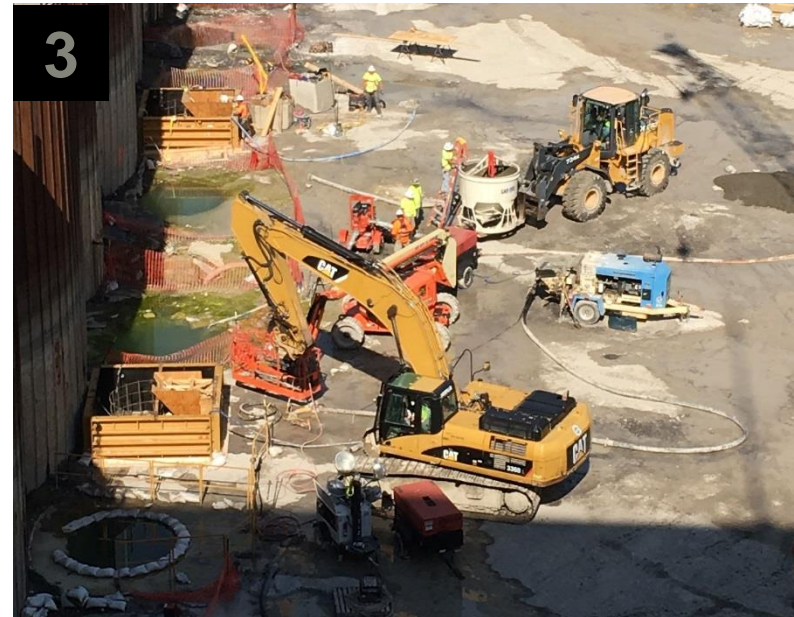
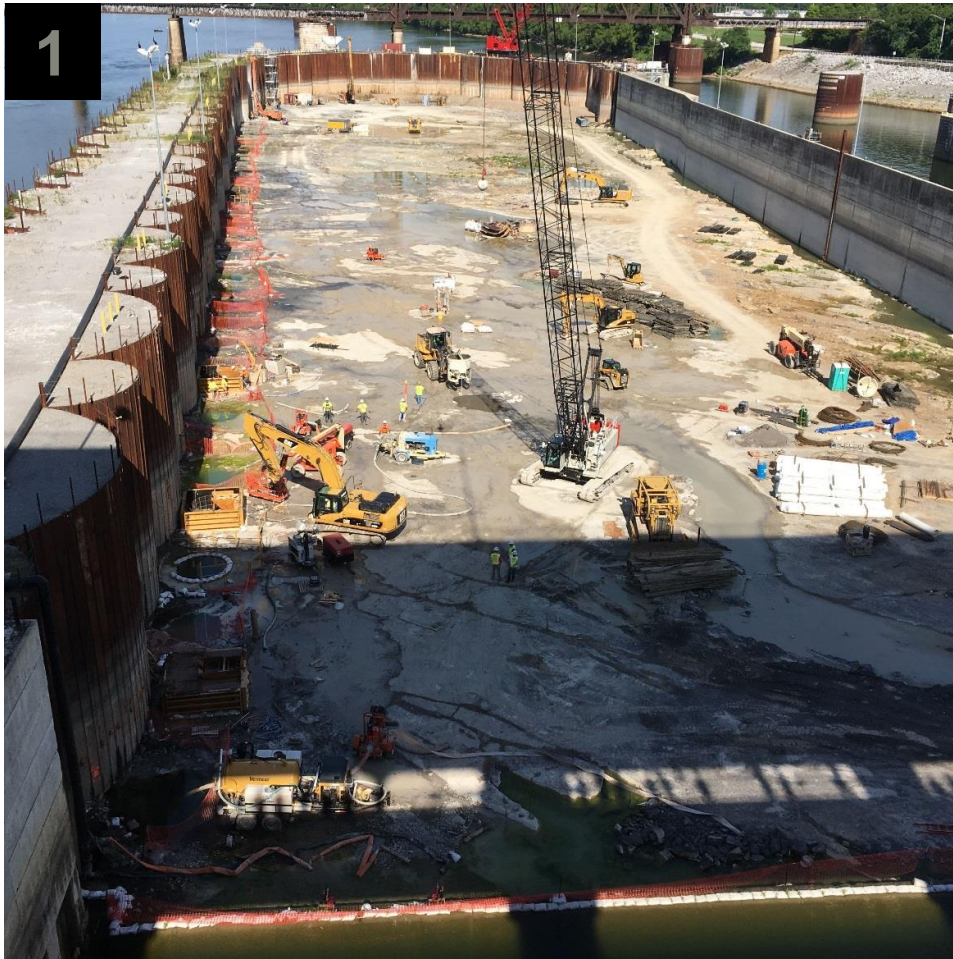
Gates & Valves - \$17M
Awarded Sep 2009, Comp 2012

Approach Beams - \$14M
Awarded Apr 2010, Comp 2013

Cofferdam - \$89M
Awarded Sep 2006, Comp 2012

Cofferdam Stabilization - \$3.1M
Awarded Sep 2015, Comp 2016

Approach Walls
Award scheduled: Sep '21

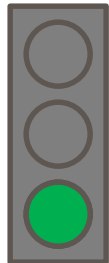


1. 27 June 2017 - Overview of Lock Excavation site; 2. Pre-bid site visit held on 27 June 2017; 3. Concrete placement for 1 of the 44 anchor support blocks

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Chickamauga Lock Project

Time and Cost Scorecard



Expenditures

28 Apr

Planned (BCWS)	\$194.0M
Earned (BCWP)	\$194.0M
Actual (ACWP)	\$194.0M

BCWP: Reports the value (based on % complete) of the work performed to date.

Target:

Actual as compared to Planned: (<1% = Green) (>1%and <3% = Yellow) and (>3% = Red)

Schedule

28 Apr

(Baseline)/(Current)

Project Complete	May 2028 / Jun 2024
Lock Operational	Nov 2027 / Dec 2023

Measures: Planned project completion and Lock operational dates

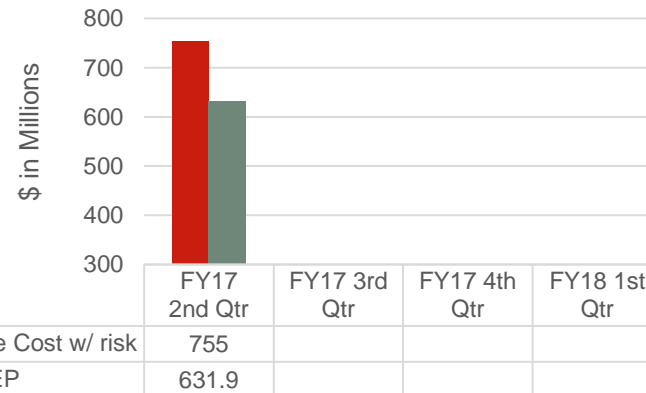
Target:

PACR Anticipated in FY18.



Budget

Chickamauga Project TEP Trend



Major Activity Schedule

Activity	Baseline	Current
Lock Excavation – Exercise remaining Options	31 May 2017	31 July 2017
Lock Excavation – Begin rock blasting	Sep 2017	Sep 2017
Lock Chamber – Contract Award	Sept 2017	Sept 2017

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Chickamauga Lock Project Schedule

Major Feature Construction	Award	Complete	Revised
Lock Excavation Construction	Sep 2016	Sep 2018	
Lock Chamber	Sep 2017	Dec 2023	
Site Work and Decommission Existing Lock	Sep 2020	Jun 2024	
Approach Walls Construction	Sep 2021	Dec 2023	
PACR for 902 Exceedance ¹	Oct 2016	~ June 2018	Completion

¹ 902 Exceedance expected by FY2020 with efficient funding.

Chickamauga Lock Schedule

Post Authorization Change Report (PACR)

Item	Start	Finish
PACR – Report Development	Mar 2017	Aug 2017
Agency Technical Review (ATR) of PACR	Aug 2017	Oct 2017
USACE LRD Review of PACR	Oct 2017	Dec 2017
USACE HQ Review of PACR	Jan 2018	Mar 2018
ASA(CW) Review of PACR	Mar 2018	~ Jun 2018

Chickamauga Lock Summary and Challenges

- Anticipate exercising Lock Excavation options in July 2017.
- Lock Chamber solicitation posted 19 June in anticipation of a Sept 2017 award.
- Project developing Post Authorization Change Report (PACR) due to current cost estimate exceeding the current authorized 902 limit.