

Mr. Don Getty
Project Manager
Nashville District
Great Lakes and Ohio River Division
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Kentucky Lock Addition Bottom Line Up Front

- Downstream Cofferdam Construction
 - ► High water has extended contract completion date 8 months but project schedule impacts have been mitigated
- Downstream Lock Excavation contract is on schedule and all options have been exercised
- Economic Update and Post Authorization Change Report have been delayed but all known significant hurdles have been crossed.

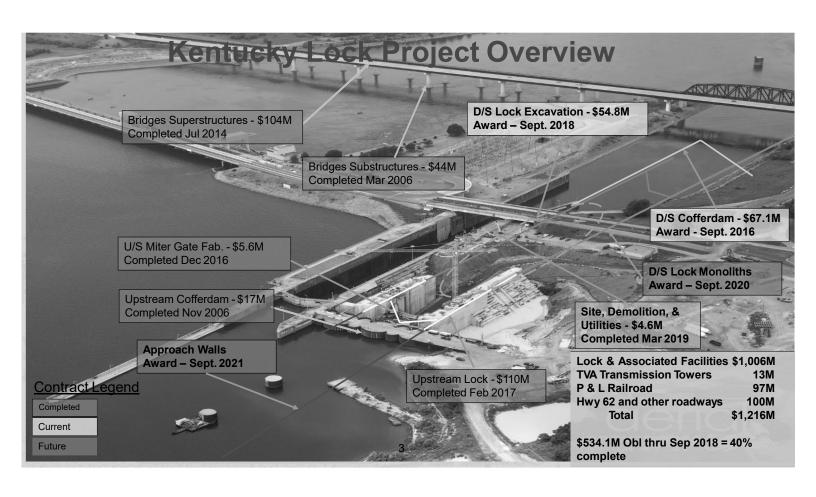
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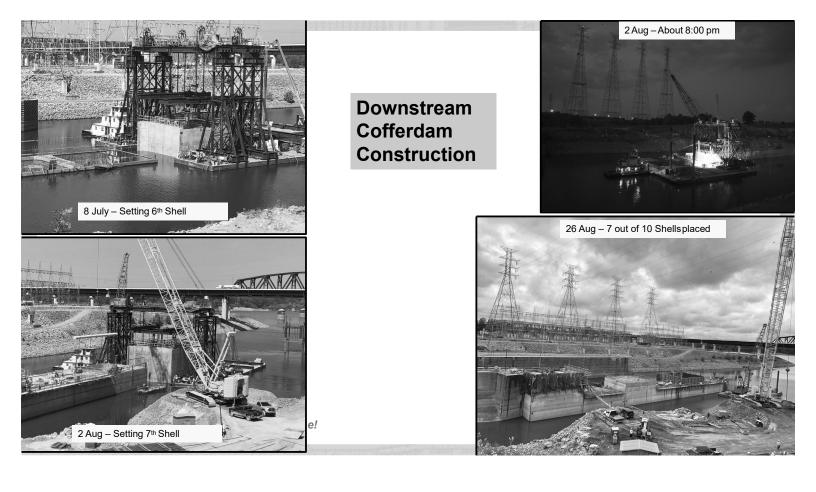
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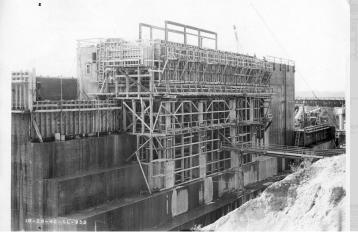


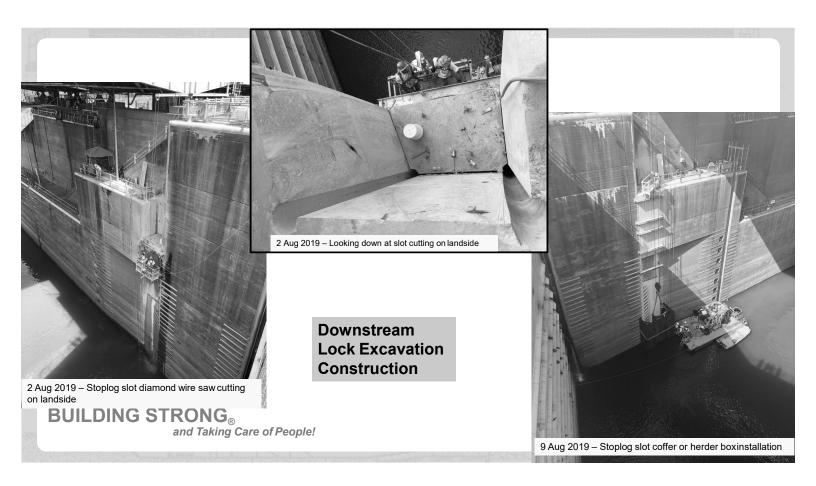


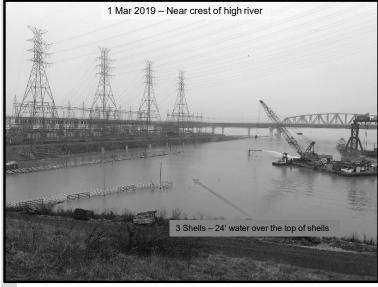


Downstream Lock Excavation Construction

Oct 1940 – Operations Building under construction





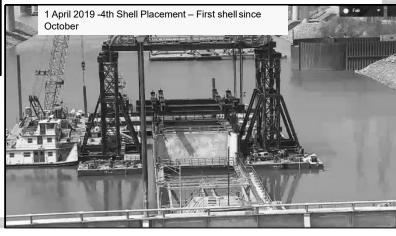


8 Months Delay due solely to High Water

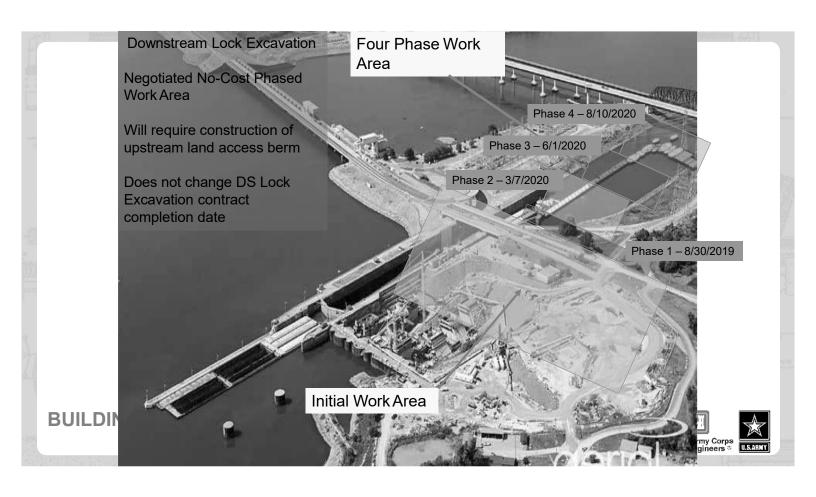
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High Water Impacts to Downstream Cofferdam Construction







Kentucky Lock Project Time and Cost Scorecard



Expenditures

Planned (BCWS) Earned (BCWP) Actual (ACWP) 30 June

\$533.1M \$507.4M \$495.0M

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 30 June

(Baseline)/(Current)

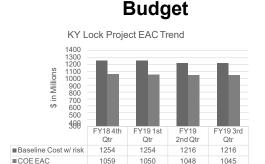
Project Complete May 2028 / Sep 2024 Lock Operational May 2028 / Sep 2024

Measures: Planned project completion and Lock operational dates

Target:

PACR Anticipated in FY19.

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Major Activity Schedule

Activity	Baseline	Current
Set 10 th Cofferdam Shell	Dec 2019	Dec 2019
Award Downstream Lock Monoliths Contract	Sep 2020	Sep 2020
Economic Update/PACR to HQ	Feb 2018	Sep 2019







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Kentucky Lock Project

Major Project Activity	Start/Award	Complete ²
Upstream Lock Monoliths Construction Contract	Jan 2010	Feb 2017
Downstream Cofferdam Construction Contract	Sep 2016	Aug 2020
Site, Demolition & Utilities Construction Contract	Jan 2018(A)	Mar 2019(A)
Downstream Lock Excavation Construction Contract	Sep 2018(A)	Nov 2021
Downstream Lock Monoliths Construction Contract	Sep 2020	Sep 2024
Approach Walls Construction Contract	Sep 2021	Nov 2023
Total Project Cost Estimate (2 year cycle)	Sep 2018	Feb 2019(A)
Economic Update/PostAuthorization Change Report for 902 Exceedance ¹	Jul 2017	Jan 2020

Note: Red indicates revised date from previously reported

1902 Exceedance expected as early as FY2022

² Assumes no risk. 80% confidence schedule adds 46 months to project completion data

Kentucky Lock Summary and Challenges

- Project schedule impacts due to high river levels have been mitigated to date but project will be vulnerable to above average high water for the next year.
- Downstream Cofferdam construction is a high risk contract due to constricted marine area and geology.
- Progress on Downstream Cofferdam has reached a point where it is reducing lockage efficiency until its completion.
- Recent years average delays at KY Lock >10 hours and traffic levels remain robust. This should bode well for benefits in ongoing Economic Update.

Efficient Funding Profile:

FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Total
\$66.1M	\$164.5M	\$159.4M	\$170.5M	\$66.4M	\$626.9M

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