

MONONGAHELA RIVER LOCKS & DAMS 2, 3 & 4 PROJECT

Charleroi Lock Control Tower

INLAND WATERWAYS USERS BOARD MEETING NO. 100

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U.S. Army Corps of Engineers
Pittsburgh District
20 July 2023

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of Engineers®

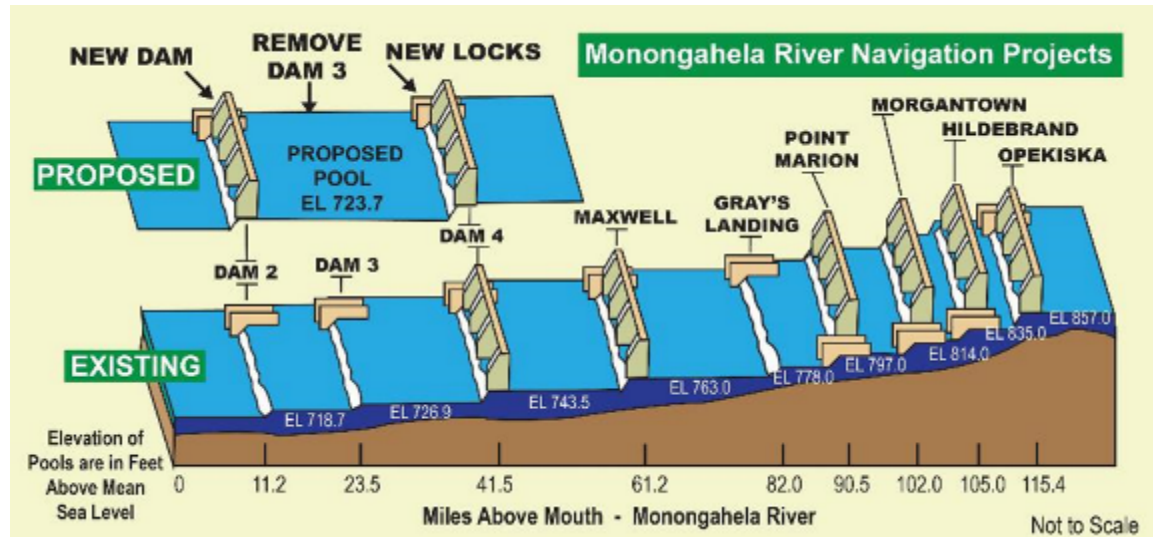


MON RIVER LOCKS & DAMS 2, 3 & 4 SCOPE






Major Project Features

- Braddock locks and dam (L/D 2): New gated dam Completed 2004
- Charleroi locks and dam (L/D 4):
 - Two new larger lock chambers (84' wide x 720' long)
River chamber under construction
Land chamber deferred
 - Dam stilling basin extension
- Locks and Dam 3 removal
- Pool 3 dredging
- Relocations
- Environmental mitigation



MON RIVER LOCKS AND DAMS 2, 3 AND 4: BLUF STATUS -SUMMARY DASHBOARD

PROJECT SAFETY	PROJECT STATUS SUMMARY	FINANCIAL STATUS SUMMARY												
 <p>River chamber contract - 4 incidents in FY22 - 4- incidents in FY23</p> <p>Stilling basin contract No safety incidents</p> <p>Dredging contract No safety incidents</p>	 <p>Schedule:</p> <table border="1"> <thead> <tr> <th></th> <th><u>Orig.</u></th> <th><u>Last</u></th> <th><u>Current</u></th> </tr> </thead> <tbody> <tr> <td>Operational (90% benefits)</td> <td>Jul 2027</td> <td>Dec 2024</td> <td>Dec 2024</td> </tr> <tr> <td>Completion (Physically complete)</td> <td>Jan 2029</td> <td>May 2026</td> <td>May 2026</td> </tr> </tbody> </table> <p>Next Contract Award(s):</p> <ul style="list-style-type: none"> LD 3 removal – July 2023 		<u>Orig.</u>	<u>Last</u>	<u>Current</u>	Operational (90% benefits)	Jul 2027	Dec 2024	Dec 2024	Completion (Physically complete)	Jan 2029	May 2026	May 2026	 <p>Planned (BCWS_{nc}): \$1,064.7 M Earned (BCWP_{nc}): \$ 992.6 M Actual (ACWP): \$1,025.3 M CPI : 0.97 CV%: -3.3% Target: Green: CV>0, Yellow -5%<CV%<0, Red CV%<-5 Benefits/Costs FY21 BCR @ 2.5% - 2.8 to 1 BCR @ 7% - 1.4 to 1 RBRCR to follow after cost cert</p>
	<u>Orig.</u>	<u>Last</u>	<u>Current</u>											
Operational (90% benefits)	Jul 2027	Dec 2024	Dec 2024											
Completion (Physically complete)	Jan 2029	May 2026	May 2026											

EXECUTIVE SUMMARY:

- Continued focus on improving safety
- There is no change in the overall project schedule
- There is no change in the project financial status
- Cost Certification: Most resent 2017. Next scheduled 2023.

MON RIVER LOCKS & DAMS 2, 3 & 4 KEY ACTIVITIES



Charleroi River Chamber Miter Gate



Charleroi River Chamber Watering

Commentary:

- Charleroi River Chamber -
 - Fully operational – January 2024
 - Contract complete – July 2024
- Charleroi land chamber closure
 - Chamber will be closed to traffic upon River Chamber being fully operational
 - Long term closure plan is being developed
- Locks & Dam 3 Removal Contract
 - Opened bids on 30 June, expect award in August 2023
 - Begin dam removal in July 2024, complete in December 2024 (**Project Operational**)
- Fish Reef Contract - Contractor to mobilize end of July 2023
- Charleroi Elevator – Advertised
- Braddock gallery pumps - Resolicit
- Relocations (river front parks, sewer outfalls, boat ramps)

MON RIVER LOCKS & DAMS 2, 3 & 4 - FUNDING SUMMARY

Funding Overview		
Authorized Cost:	556,400,000	(Oct 1991)
902 Limit:	1,764,443,000	(Mar 2019)
ARRA (FY09-13):	68,261,203	
PED & EDC Cost:	204,370,000	
S&A Cost:	53,257,000	

	ARRA	CG	IWTF	Total
Total Project Cost (May 2018) *1				\$ 1,233,835,000
Allocations through FY17	\$ 68,261,203	\$ 379,645,646	\$ 379,645,652	\$ 827,552,501
FY18 Allocation		\$ 48,150,000	\$ 48,150,000	\$ 96,300,000
FY19 Allocation		\$ 44,606,606	\$ 44,606,606	\$ 89,213,212
FY20 Allocation, (Final Funding)		\$ 55,648,770	\$ 55,648,770	\$ 111,297,540
FY21 Allocation				\$ -
FY22 Allocation				\$ -
Total Allocations to Date:	\$ 68,261,203	\$ 528,051,022	\$ 528,051,028	\$ 1,124,363,253
			Remaining/Unallocated Balance *2	\$ 109,471,747
			Remaining Balance Change From Last Meeting:	\$ -

*1. Cost for 90% of project benefits increased from \$1.22B to \$1.23B. Total project cost increased from \$2.73B to \$2.76B.

*2. \$109 Million of the 90% project benefits cost estimate remains unfunded. It is anticipated that additional funds will be needed to complete the project but it is also anticipated that the final cost will be below the baseline estimate of \$1.2 billion.

*3. House FY24 E&WD bill mark-up - \$41M for Lowermon in FY24.

Commentary:

- Project cost certification – 2023

Fiscal Year Funding Capabilities:

FY 2024	FY 2025	Total
\$41,000,000	TBD*1	TBD

*1 Note: FY25 capability will be determined following the 2023 cost certification and final scope of the Charleroi Land Chamber closure.



MON RIVER LOCKS AND DAMS 2, 3 AND 4, PROGRESS AND/OR ISSUES/CHALLENGES

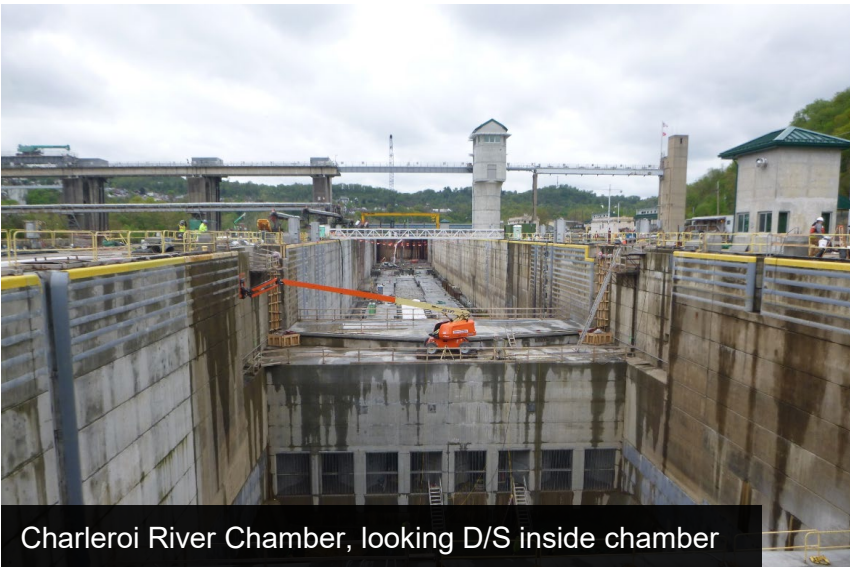
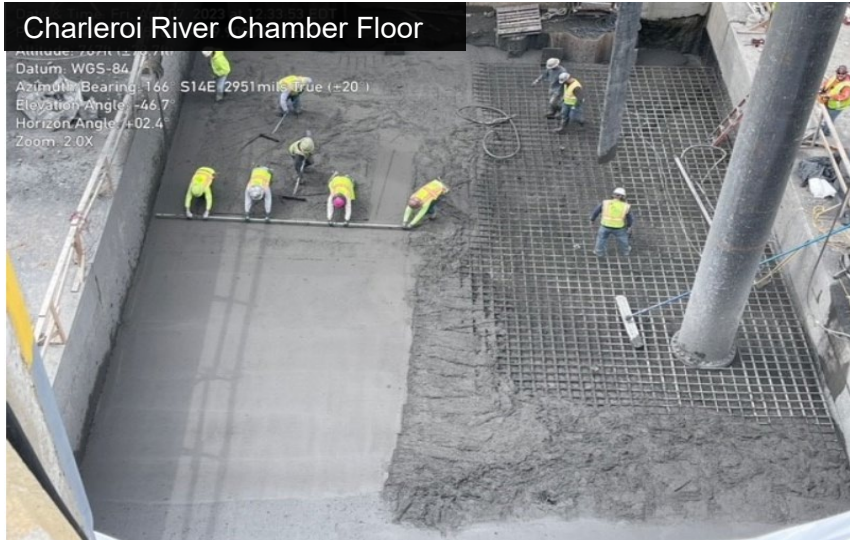


ISSUES/CHALLENGES

- FY 20 “completion funding” is sufficient to reach 90% benefits but insufficient to complete necessary remaining work
- Timing of 90% benefits is driven by river and environmental conditions
- Coordination of project funded relocations
- Low probability for siltation in pool 3 (new navigation channel)



MON RIVER LOCKS & DAM 2, 3 & 4 RECENT PROGRESS





THANK YOU

Questions?

