# MONONGAHELA RIVER L&Ds 2, 3 & 4 REPLACEMENTS

Inland Waterways Users Board Meeting No. 101 Springfield, VA October 19, 2023

Mr. Stephen Fritz, PE, PMP LRP MEGA Projects Program Manager



TRESTRESSED-CONCRETE TRUNKNON GROEN

NOTE: FARITER GATE NOT SHOWN



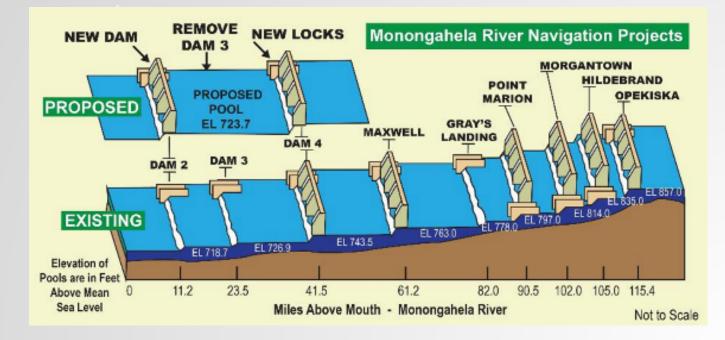


## MON RIVER LOCKS & DAMS 2, 3 & 4 SCOPE



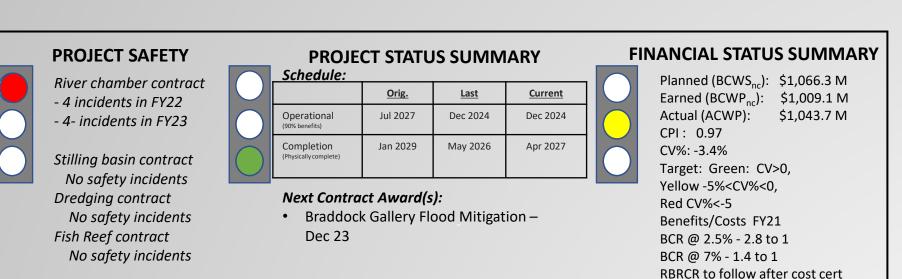
#### **Major Project Features**

- 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



#### **EXECUTIVE SUMMARY:**

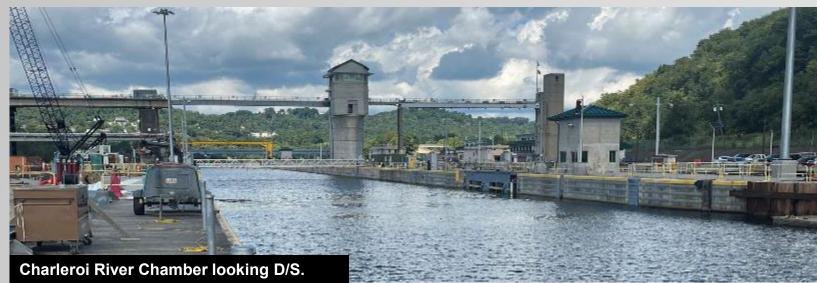
- Continued focus on improving safety
- There is a change in the overall project schedule for completion based on the period of performance of the L/D 3 removal contract, Apr 2027
- There is no change in the project financial status
- Cost Certification: Most resent 2017. Next scheduled 2023/2024.

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





#### **Commentary:**

- Charleroi River Chamber -
  - Fully operational April 2024
  - Contract complete September 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
  - Awarded 22 August 2023
  - Begin dam removal in July 2024, complete dam removal in December 2024 (Project Operational)
- Fish Reef Contract Preconstruction survey completed
- Charleroi Elevator Awarded 18 August 2023
- Braddock gallery pumps Resoliciting
- Relocations (river front parks, sewer outfalls, boat ramps)



### MON RIVER LOCKS & DAMS 2, 3 and 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								

	A	RRA		CG		IWTF	Total
Total Project Cost (May 2018) <sup>*1</sup>						\$ 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:						\$ -	

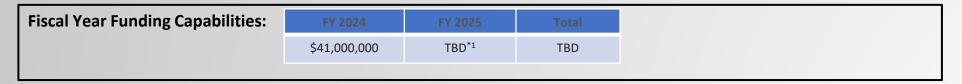
\*1. Cost for 90% of project benefits increased from \$1.22B to \$1.23B. Total project cost increased from \$2.73B to \$2.76B.

\*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 – 2023/2024



\*1 Note: FY25 capability will be determined following the 2023/2024 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)

# **VROGRESS PHOTOS-CHARLEROI RIVER CHAMBER**

**U.S. ARMY** 





Setting left upstream miter gate
Control tower – Control room





Motor control center
Control shelter – Control panel



## **THANK YOU AND QUESTIONS**



