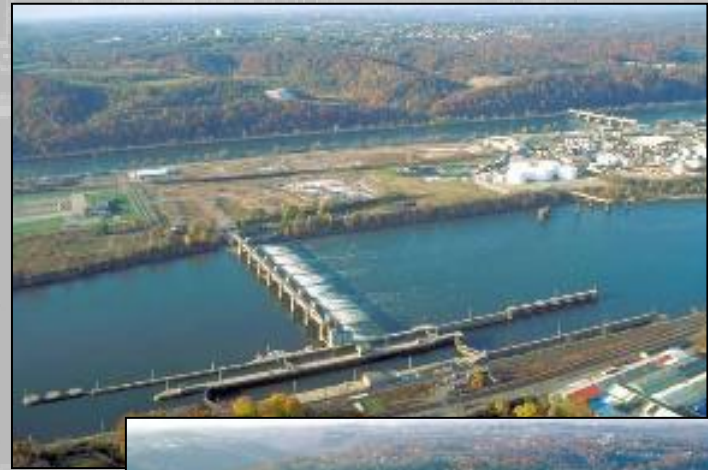


MONTGOMERY LOCK AND UPPER OHIO NAVIGATION PROJECT

INLAND WATERWAYS USERS BOARD MEETING #96

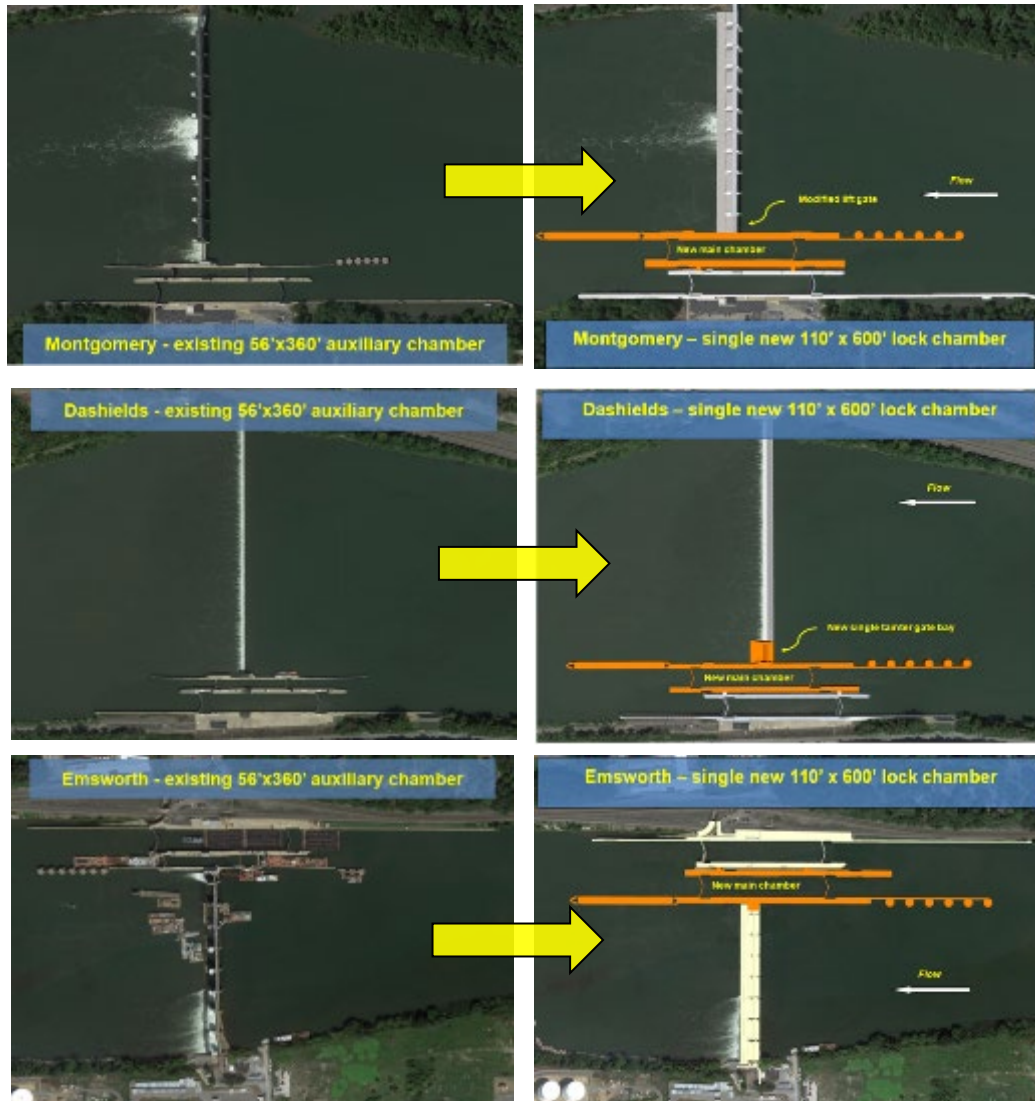
Mr. Steve Fritz
MEGA Projects Program Manager
US Army Corps of Engineers
Pittsburgh District
20 April 2022

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US Army Corps
of Engineers®

PROJECT OVERVIEW OF SCOPE



Pre-Project

Post-Project

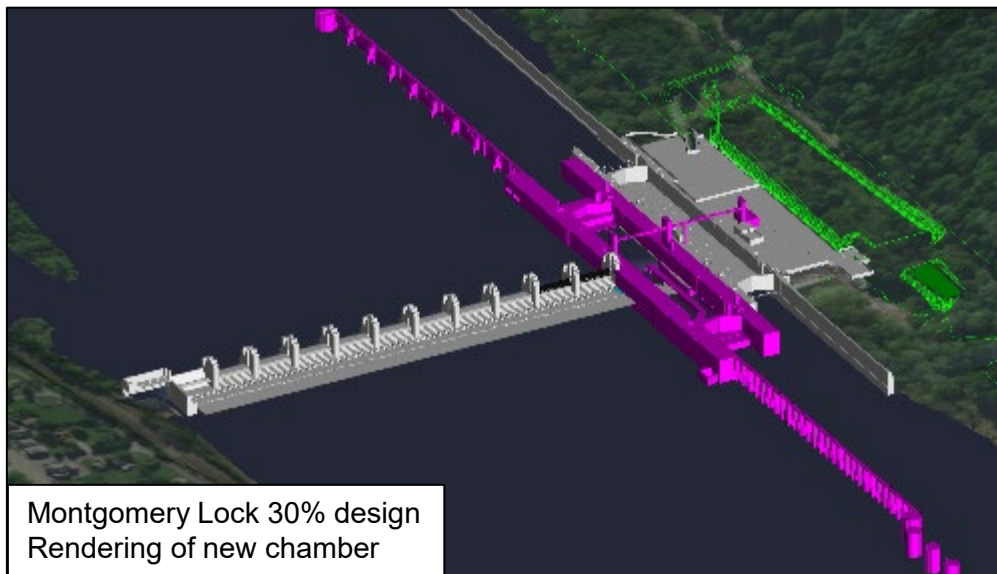
Major Project Features

- Similar work at Montgomery, Dashiels, & Emsworth
 - Demolish the existing 56' x 360' Auxiliary Chamber
 - Construct a new 110' x 600' Main Chamber
 - Modifications to dams



MONTGOMERY - SCHEDULE WORK COMPLETED (FY22)

- 30% lock design – October 2021
- Phase II Environmental Site Assessment at concrete batch plant site completed – April 2022



Montgomery Lock 30% design
Rendering of new chamber



Environmental Site Assessment - Soil sampling

- Ongoing Work - Montgomery lock
 - 60% lock design effort and physical modeling
 - Site development design and real estate
 - Secant pile construction



Navigation model demonstration



Filling & Emptying system model demonstration

- Remaining Work - Overall project
 - **Montgomery** – complete design, advertise and award construction contract
 - **Emsworth** lock design, real estate, and construction
 - **Dashields** lock design, real estate, and construction



COST/FUNDING OVERVIEW – TOTAL & REMAINING

Current Project Estimate (fully funded): \$2.17B ^{*1}	GI-PED	IIJA	CG	IWTF	Total
FY17 Allocation:	5,525,000				5,525,000
FY18 Allocation:	2,353,000				2,353,000
FY19 Allocation:	2,500,000				2,500,000
FY20 Allocation:	7,700,000				7,700,000
FY21 Allocation:			14,300,000	7,700,000	22,000,000
FY22 Allocation: ^{*2}		20,000,000			20,000,000
Total Allocations to Date:	18,078,000	20,000,000	14,300,000	7,700,000	60,078,000
Remaining Balance					2,109,922,000
Remaining Balance Change From Last Meeting:					20,000,000

	First Cost	Fully Funded
Original Authorized Cost:	\$2.69B	\$3.14B
Revised Project Cost¹	\$1.64B	\$2.17B

*1 – The 2019 fully funded estimate reported was \$1.8B. The project cost was updated in February 2021 and included sequential construction (vice concurrent) of Montgomery, Emsworth, and Dashields. It also included the assumption that all value engineering proposals could be implemented but, can not. This estimated does not include our current inflation.

\$2.17 B reflects the inflation of moving Emsworth and Dashields into the future. The 2022 cost estimate will consider the 30% design, sequential construction, and remaining or removed value engineering opportunities.

*2 – Total FY22 IIJA Appropriation is \$934,708,000.

Current Status of the Project

- Efforts focused on Montgomery Lock
 - Environmental site assessment for batch plant site completed
 - Montgomery 60% Lock Design effort ongoing
 - Navigation model and Filling & Emptying system model being tested at ERDC
 - Coordinating with private and public stakeholders

Next Steps

- Real estate acquisition to support Montgomery lock construction
- Complete Montgomery lock design (2023)
- Award Montgomery lock construction contract (2024)



FY 22 APPROPRIATIONS – SUMMARY



Infrastructure Investment and Jobs Act (IIJA)

- \$857.7 million – Montgomery lock - complete design, real estate, and construction
- \$77.0 million – Emsworth lock - complete design and real estate and begin construction

CG/IWTF - \$12.8 million for overall project – begin real estate for Dashields



PROJECT ISSUES AND CHALLENGES



Issues and Challenges

- Facility failure prior to completion
- Construction cost inflation
- Market uncertainty



THANK YOU

**Stephen Fritz, MEGA Projects
Program Manager**

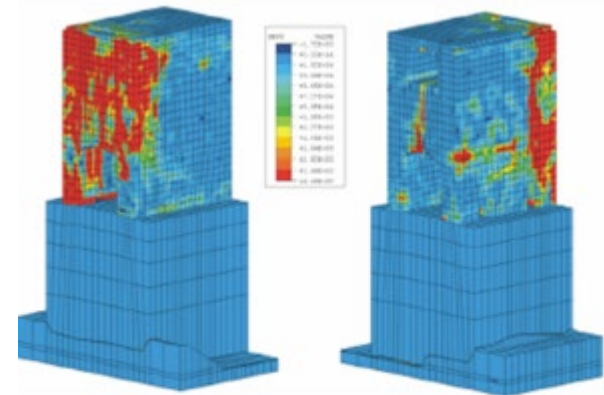
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Montgomery Lock

Monolith Joint Deterioration



**Middle Wall Cracking Pattern
Projected in Year 2060
Monolith Faces**