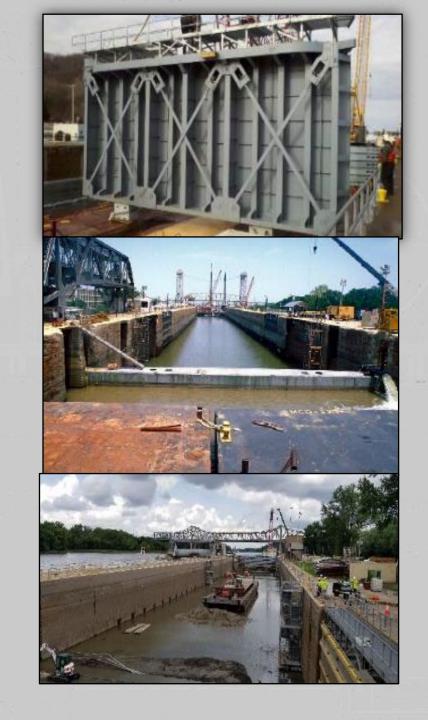
# MAJOR REHABILITATION EVALUATION REPORTS

INLAND WATERWAYS USERS BOARD MEETING NO. 98 GALVESTON, TX

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Headquarters
U.S. Army Corps of Engineers
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## WHAT IS MAJOR REHABILITATION?



For purposes of laws relating to navigation on inland and intracoastal waterways of the United States, the term "rehabilitation" means:

### (1) Major project feature restoration

- (A) Which consists of structural work on an inland navigation facility operated and maintained by the Corps of Engineers;
- (B) Which will significantly extend the physical life of the feature;
- (C) Which is economically justified by a benefit-cost analysis;
- (D) Which will take at least 2 years to complete; and
- (E) (i) which is initially funded before October 1, 1994, and will require at least \$5M in capital outlays; OR
  (ii) which is initially funded on or after such date and will require at least \$27 million in capital outlays (current threshold).

### (2) Structural modification of a major project component (not exhibiting reliability problems)

- (A) Which will enhance the operational efficiency of such component or any other major component of the project by increasing benefits beyond the original project design; and
- (B) Which will require at least \$2.5 million in capital outlays (current threshold).



## MAJOR REHAB SCREENING PHASE



#### SCREENING\*

## **Major Rehabilitation Evaluation Report (MRER)\***

Scoping & Screening

Alternative Evaluation & Analyses

Finalize Analyses & Conduct Concurrent Reviews

Final Review & Approval

Major Rehabilitation Decision
Milestone (MRDM). This decision
milestone is focused on the findings of
the scoping & screening phase. This
verifies the screening results and the
recommended path forward, either
continuing as a MRER, or following an
off-ramp (e.g. Major Maintenance
Report).

### Primary objectives of screening:

- Make an early, risk-informed decision on whether the project will qualify for rehabilitation.
- Focus the MRER on the key risks and uncertainties.
- Efficiently use O&M funds for investigations.

## STEPS WITHIN THE SCREENING PHASE



Key Activities

Screening Prep | Identify Key Risks

Identify Initial
List of
Components

Develop Screening Data

Conduct Risk Assessment Evaluate and Summarize Results

Major Rehab Decision Milestone

Review past studies and reports

Review other off-theshelf data and information Problems with condition and reliability

Opportunities for increased efficiency

The initiating event leading to a failure

Screen components without a failure of concern

Identify the mostlikely rehab action

Screen components not eligible for rehab

ROM costs to rehab identified components

Decision Point: MRER, MM, or maintenance based on rehab cost estimate. Focus on components requiring significant investment

Develop engineering data to estimate chance of failure and range of harms

Develop economic data to estimate possible damages

Quantitatively assess risks and compare to rehab costs to develop BCRs

Qualitatively assess harms that could not easily be quantified Draft Screening Report

Final reviews

Summarize results for decision-makers

Meeting with District leadership to discuss results and path forward

Meeting with Division leadership to discuss results and path forward

Decision Point: MRER, MM, or maintenance based on analysis findings.



# **Major Rehabilitation Evaluation Report Status**



Project Title	Project Location	Status
Brandon Road L&D	Illinois Waterway	Screening completed – does not qualify for an MRER
David D. Terry L&D (No. 6)	MKARNS	Screening completed – anticipate 2024 report completion
Dresden Island L&D	Illinois Waterway	Screening completed – anticipate 2025 report completion
Greenup L&D	Ohio River	Screening underway
Lock & Dam 18	Mississippi River	Screening completed – does not qualify for MRER
Marmet L&D	Kanawha River	Screening underway
Meldahl L&D	Ohio River	Screening underway
New Cumberland Lock	Ohio River	Screening underway
Pike Island L&D	Ohio River	Screening complete – anticipate 2024 report completion
Racine L&D	Kanawha River	Screening to begin in 2023 – included in FY23 PBud
Robert S. Kerr L&D	MKARNS	Screening underway – anticipate 2024 report completion
Starved Rock L&D	Illinois Waterway	Screening completed – In modeling and expert elicitation. Anticipate late 2024 report completion
T.J. O'Brien L&D	Illinois Waterway	Project received \$52.5M in IIJA construction funds; design underway
Webbers Fall L&D	MKARNS	Screening underway – anticipate 2024 report completion
Winfield Lock & Dam	Kanawha River	Screening completed – anticipate Director's memo in December 2022

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## **THANK YOU**

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