MVD ESOC Post Flood Report Briefing 6 Nov 2012





✓ Flooding is the costliest natural

Flood Risk Management is a

SHARED RESPONSIBILITY!

existing and new development are locating in flood prone areas, often behind aging and poorly maintained flood risk management infrastructure. There is limited information available on the extent of current-day and potential future flood risks and a widespread lack of understanding of flood risks by the public and decision makers.





Operation Watershed-Recovery MR&T Post-Flood Evaluation

Overview

- The MR&T Post Flood Evaluation was largely executed from May 2011 through November 2012.
- Purpose was to investigate and document the 2011 Flood performance of the MR&T system assess MR&T system performance,
 - 2) identify and prioritize recapitalization requirements for system components necessary to repair the MR&T system for future events, and
 - assess effectiveness or areas of improvement for water control 3) communication and coordination across the watershed.
- The resulting documents will be a valuable resource and reference guide for future.



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Operation Watershed-Recovery MR&T Post-Flood Evaluation

Key Findings

- The Mississippi River and Tributaries (MR&T) project is one of the world's most comprehensive and successful flood control and navigation systems.
- More than a dozen significant floods have **tested the MR&T** over the past eighty years, but none as extensively as the 2011 record flood.
- In 2011, the MR&T system performed as designed by accommodating the river while using only 85 percent of its design capacity. Yet at the same time, not a single life was lost.
- More than **\$230 billion** in flood damages were prevented by the MR&T during the 2011 record flood.

Since its inception, the MR&T system is credited with preventing **\$612** billion, or in excess of half a trillion dollars, in cumulative flood damages. At an investment level of \$14 billion, those savings result in a \$44 return on every \$1 invested.

Operation Watershed-Recovery MR&T Post-Flood Evaluation

Key Conclusions

- We owe a debt of gratitude for the wisdom, tenacity and efforts of our forbearers who devised, funded, constructed and maintained this innovative system that has proven so beneficial to so many for so long.
- We extend our sincere appreciation to the thousands of local land owners, levee boards, cities, states and other partners who desperately fought the flood fight alongside us and who continue to stand with us during the path to recovery.
- After more than a year of evaluation and documentation, these documents will serve as educational tools and reference points for our citizens, decision makers and future flood fighters.
- Facts, figures and lessons learned from the 2011 flood serve to hasten and guide our endeavors to rebuild and improve the MR&T project, ensuring continued safety and security of our citizen's lives and livelihoods.

Operation Watershed-Recovery MR&T Post-Flood Evaluation

Overarching Recommendations

Use the information from the PFR effort to inform repair of the MR&T System Use the information from the PFR effort to inform completion of the MR&T System

Update Operation Plans/Manuals, Communications Plans, and SOPs using information from this PFR, external inputs, AARs, etc

Regionally standardize communication approaches and products with MR&T System floodway and backwater area stakeholders

Evaluate the need to conduct an updated flow line study for the MR&T System

Coordinate a regional "triage" effort to prioritize, refine and implement the recommendations identified in the MR&T System Post Flood Report







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