WATERWAYS COUNCIL INC
WATERWAYS SYMPOSIUM

St. Louis, Mo

Colonel Kevin Golinghorst
Commander, St. Louis District

3 November 2021
AGENDA

➢ MVS Geographic Overview
  • Navigation Mission
  • Congressional Members
➢ Operations and Maintenance
➢ FY23 Lock Closures
➢ 2019 High Water
➢ Dogtooth Bend
➢ Hurricane Response
➢ Questions
NAVIGATION MISSION

How We Keep Commerce Moving:

Water Management
- Monitor River, Reservoir, Tributary Gages
- River Stage Forecast
- Navigation Pool and Reservoir Management
- Communication with Industry/Public

Locks and Dams
- Operation and Maintenance
- National Strategy

Dredging
- Channel Patrol/Reconnaissance
- Surveys
- Dredge – Government and Contractor Plant
- >3M cubic yards dredged annually

River Engineering
- Improvements to channel and environment
- Model Studies
- Construction
INLAND WATERWAYS

Reliability

Redundancy

Efficiency

Safety

Operations & Maintenance

Major Rehab / Major Maintenance

NESP
117th Congress & St. Louis District Boundary

117th Congress Missouri
Name:
- Cori Bush (D-1)
- Ann Wagner (R-2)
- Blaine Luetkemeyer (R-3)
- Vicky Hartzler (R-4)
- Sam Graves (R-6)
- Jason Smith (R-8)

117th Congress Illinois
Name:
- Mike Bost (R-12)
- Rodney Davis (R-13)
- Mary Miller (R-15)
- Darin LaHood (R-18)

Governor and U.S. Senator
- Illinois: Governor J.B. Pritzker (D)
  Senator Richard Durbin (D)
  Senator Tammy Duckworth (D)
- Missouri: Governor Mike Parson (R)
  Senator Roy Blunt (R)
  Senator Josh Hawley (R)
OPERATIONS AND MAINTENANCE
FY21 Execution and FY22 Planning

Fiscal Year 2021 Delivery
• O&M Financial Summary, over $112 Million FY21 O&M / MR&T Funding
• Focus is on reducing outyear O&M costs by identifying efficiencies, addressing the highest priorities and reinvesting resources to provide a long-term sustainable program.
  • $1.6 Million in cost Saving measures
  • $14 Million for Replacement of Upstream Lift-Gate System at Mel Price Lock and Dam
• Critical Infrastructure Updates
  • Completed Lock 25 Miter Gate Upstream Anchorages
  • Completed Locks 27 Liftgate Hoisting Chains Replacement/Upgrade
  • Completed L25 Bulkhead Crane Installation
  • Award contracts for Mel Price Liftgate Replacement
  • Completed Waterline/Sewer line Replacement at multiple locations
  • Completed Clarence Cannon Dame Excitation/Voltage Regulator replacements

Fiscal Year 2022 Preparation
• Out Year Planning
  • Extensive Planning throughout FY21 left District well positioned for FY22 President’s Budget; competing for America Jobs Act funding to further reduce backlog
    • Over $300 Million in Backlog of Maintenance

MVS PARTNERING EFFORTS
• Over $5.3 Million in Leveraged Dollars in FY21; hitting our annual goal of 3-5% of the fiscal year’s budget
Brandon Road (ILR 286) closed Jun-Sep 2023
- Dewater lock, install new upper miter gates and new miter gate machinery

Dresden Island (ILR 272) closed Jun-Sep 2023
- Dewater lock, install new upper miter gates, electrical system rehab, new miter gate machinery, and new tainter valve slots

Marseilles (ILR 245) closed Jun-Sep 2023
- Dewater lock, install new miter gate machinery, and electrical system rehab

Starved Rock (ILR 231) closed Jun-Sep 2023
- Install new miter gate machinery

Lock 24 (UMR 273) closed Jan-Feb 2023 (60 days)
- Dewater lock, repair damages from accidents

Lock 25 (UMR 241) closed Jan-Mar 2023 (60 days)
- Complete guidewall cribbing repairs, repair damages from accidents

Mel Price (UMR 201) closed Jan-Mar 2023 (90 days)
- Main Lock, modifications to overlook piers, liftgate replacement
- The Aux Lock will remain open

Lock 27 (UMR 186) closed Jan-Mar 2023 (75 days)
- Main Lock, Replace Miter Gate anchorages
- The Aux Lock will remain open
## MISSISSIPPI RIVER FLOODS AT ST. LOUIS

### Table: Flood Stages and Days of Consecutive Flood Stage

<table>
<thead>
<tr>
<th>Year</th>
<th>Crest</th>
<th>Consecutive Days</th>
<th>Total Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973</td>
<td>43.23</td>
<td>77</td>
<td>81</td>
</tr>
<tr>
<td>1993</td>
<td>49.58</td>
<td>104</td>
<td>147</td>
</tr>
<tr>
<td>2019</td>
<td>46.02</td>
<td>126</td>
<td>126</td>
</tr>
</tbody>
</table>

### Map
- The map highlights the flood stage levels and the duration of consecutive flood days.
- The data represents the crest levels and total days of flood stage for each year.
## 1993 VS 2019
### FLOOD RESPONSE COMPARISON

<table>
<thead>
<tr>
<th>Category</th>
<th>1993 (inflation adjusted)</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crest – St. Louis Gage</td>
<td>49.58’</td>
<td>46.02’</td>
</tr>
<tr>
<td>Days of EOC activation</td>
<td>58</td>
<td>136</td>
</tr>
<tr>
<td>MVS Personnel Engaged</td>
<td>397</td>
<td>85</td>
</tr>
<tr>
<td>FCCE 200 series funding</td>
<td>$16M ($28M)</td>
<td>$5M</td>
</tr>
<tr>
<td>Sandbags</td>
<td>13,751,000</td>
<td>319,200</td>
</tr>
<tr>
<td>Rolls Poly Sheeting</td>
<td>9,044</td>
<td>289</td>
</tr>
<tr>
<td>Pumps</td>
<td>112</td>
<td>14</td>
</tr>
<tr>
<td>Breaches</td>
<td>126</td>
<td>14</td>
</tr>
<tr>
<td>Leveed Acres Inundated</td>
<td>1,407,574</td>
<td>100,953 (MO&amp;IL)</td>
</tr>
<tr>
<td>Estimated Levee Repair Cost</td>
<td>$83M ($147M)*</td>
<td>$40M</td>
</tr>
</tbody>
</table>

* Escalated to current dollars
DOGTOOTH BEND

Navigation
Flood Risk Management

Habitat Restoration
Engineering With Nature
Silver Jackets

Bankline Failure / Levee Breach
Audits / Monitoring

FLOW EXIT
Baseline Failures (prearedisance 2015)

https://ewn.erdc.dren.mil/?page_id=3538
KEY MESSAGES:

- Hurricane Ida MVS Temporary Roofing Mission - over 70,000 requests for assistance.
- MVS employees from across all Divisions are supporting the Roofing Mission.
  - PRT staff deployed downrange to Louisiana and Alabama.
  - Remote QA support from MVS and NWO.
- MVS ECCV-10 is alerted and ready to deploy when called to Louisiana.
- Overall mission is estimated at over 33,600 blue roofs installed.