US ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
Illinois Waterway Navigation
System Maintenance

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Presentation to the
Waterways Council Symposium
FLASHBACK – LAGRANGE LOCK

- Unsafe conditions for both Towing Industry and Lock personnel
- Steeply decreasing reliability of service
- Delays in restoring service after flooding conditions

The Nation’s “Poster Child” for decaying infrastructure
ILLINOIS WATERWAY 2020 – THE PLAN

▪ Upgrade and improve infrastructure on the Illinois Waterway while minimizing the impact on industry

▪ Consolidate full closures into the same year, rather than closing one or two locks each year

▪ Work at 6 sites concurrently, with 4 Locks requiring dewatering

▪ Onsite work to take place during a summer closure/restriction period
  • Mostly July through October to avoid historical spring flooding seasons and fall harvest seasons
LaGrange Lock and Dam – Major Rehab/Major Maintenance
• MR using C/IWTF funding, MM using O&M funding
• Full closure 01 Jul – 30 Oct 2020 (up to 120 days)
• Construction contract awarded in November 2018
• Significant repairs to crumbling concrete, steel structures within the lock chamber, replacement of lock machinery, etc.
  • Reopened to Navigation on 13 OCT 2020

Peoria Lock and Dam - Dewatering
• Full closure 06 Jul – 30 Sep 2020 (87 days)
• Dewatering of lock chamber for maintenance, repairs and inspection
• Work done by in-house USACE maintenance teams
  • Reopened to Navigation 30 SEP 2020
2020 PLANNED RESTRICTIONS/CLOSURES

- Starved Rock Lock and Dam – Upper & Lower Miter Gate Installation
  - Full closure 01 July - 29 Oct 2020 (120 days)
  - Construction contract awarded in September 2019
  - Dewatering of lock chamber to replace/modify the miter gate sills and anchorages to accommodate new vertically framed Miter Gates, maintenance, inspections

- Marseilles Lock and Dam – Upper Miter Gate Installation
  - Full closure 01 July - 29 Oct 2020 (120 days)
  - Construction contract awarded in September 2019
  - Dewatering of lock chamber to replace/modify the miter gate sill and anchorages to accommodate new vertically framed Miter Gates, maintenance, & inspections
2020 PLANNED RESTRICTIONS/CLOSURES

▪ Dresden Island Lock and Dam – Upper Bulkhead Recess Installation
  • Partial closure (daytime locking, width restriction) 06 JUL - 07 OCT & 25-28 OCT
  • Full closure 07 OCT - 24 OCT
  • Replace emergency miter gates which have been deemed unfit for dewatering
  • Preparatory work for 2023 closures

▪ Brandon Rd Lock and Dam – Upper Bulkhead Recess Installation
  • Work Postponed to the future:
  • 90+ day restriction period with 21 day full closure
  • Replace emergency miter gates which have been deemed unfit for dewatering
  • Preparatory work for potential 2023 closures
  • Work will precede the planned 2023 closures, with an open period to clear the queue
LAGRANGE MAJOR REHABILITATION/MAINTENANCE

Vertical concrete pre-cast panel installation

New gate machinery base
PEORIA MAJOR MAINTENANCE

Miter gate anchorage repairs

New checkpost
19 MAY 2020 – STARVED ROCK LOCK
MARSEILLES MAJOR MAINTENANCE
DRESDEN ISLAND BULKHEAD RECESSES
2023 (T) PLANNED RESTRICTIONS / CLOSURES

▪ Starved Rock Machinery / Sector Gear Rehab
▪ Marseilles Electrical and Machinery / Sector Gear Rehab
▪ Dresden Island Lock and Dam Upper Miter Gate Installation
  • Dewatering of lock chamber to replace/modify sills and anchorages to accommodate new vertically framed Miter Gates
▪ Brandon Road Lock and Dam Upper Miter Gate Installation
  • Potential to include any approved GLMRIS work that requires a lock closure
  • Bulkhead slot installation and dewatering of lock chamber to replace/modify sills and anchorages to accommodate new vertically framed Miter Gates
▪ Lockport Lock
  • Vertical lift gate replacement

Notes:
• This is 100% O&M work (all Major Maintenance, no Major Rehabilitation efforts)
• This is another 90-120 day effort – spring/summer 2023
QUESTIONS?

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