Steve Hartman

Project Manager Walla Walla District

May 27, 2015 Columbia-Snake River Navigation System Spring Stakeholder Meeting















- Two-Leaf arched miter gate
- Gate put in service in 1954
- 106 feet tall x 86 feet wide
- Cracks monitored for past several years
- New critical cracks discovered and repaired in March 2014
- Follow-up inspections performed in September 2014 to confirm structural issues that required repair in March 2015 Outage





March 2015 Planned Work:

- Coal Tar Coating Removal from Submerged Structural Members
- Inspection of Submerged Structural Members
- Crack Repairs
- Quoin Seal Resurfacing
- Miter Seal Resurfacing
- Gudgeon Repairs
- Recoat Submerged Structural Members with Modern Vinyl Paint
- Replacement of Wood Bumpers







March 2015 Completed Work:

- Coal Tar Coating Removal from Submerged Structural Members
- Inspection of Submerged Structural Members
- Crack Repairs
- Quoin Seal Resurfacing
- Miter Seal Resurfacing
- Recoat Submerged Structural Members with Modern Vinyl Paint
- Replacement of Wood Bumpers
- ■Contract Amount = \$1,616,486.00







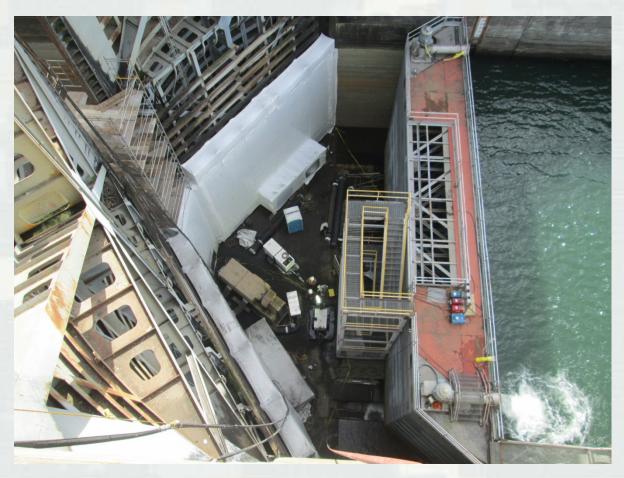


Coal tar coating on submerged areas of the gate structure

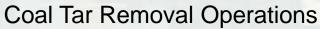




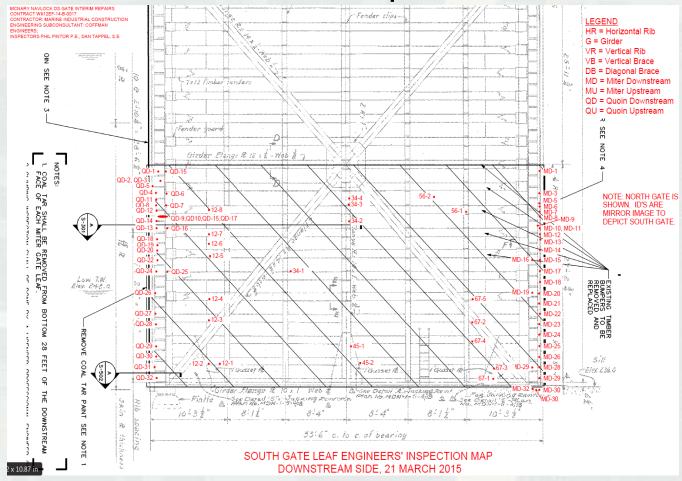




















Cracks at Upstream Quoin Block

Cracks at Downstream Quoin Block









Welded Stiffening Brackets Miter Block Crack Repairs

Bolted Angles Miter Block Crack Repairs







Completed Crack Repairs

Stop Drill => 10

Grind Out => 12

Bolted Plates => 1

Bolted Angles => 21

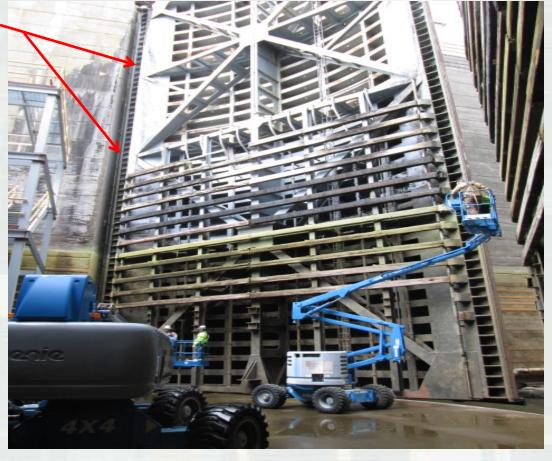
Welded Stiffener Brackets => 6

Total \Rightarrow 50



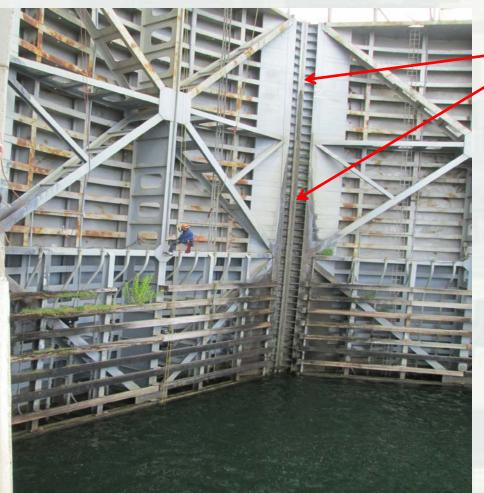


Quoin Seal









Miter Seal











New Wood Bumpers and Vinyl Paint

Questions?

