

# NWW 2015 Lock Maintenance Update

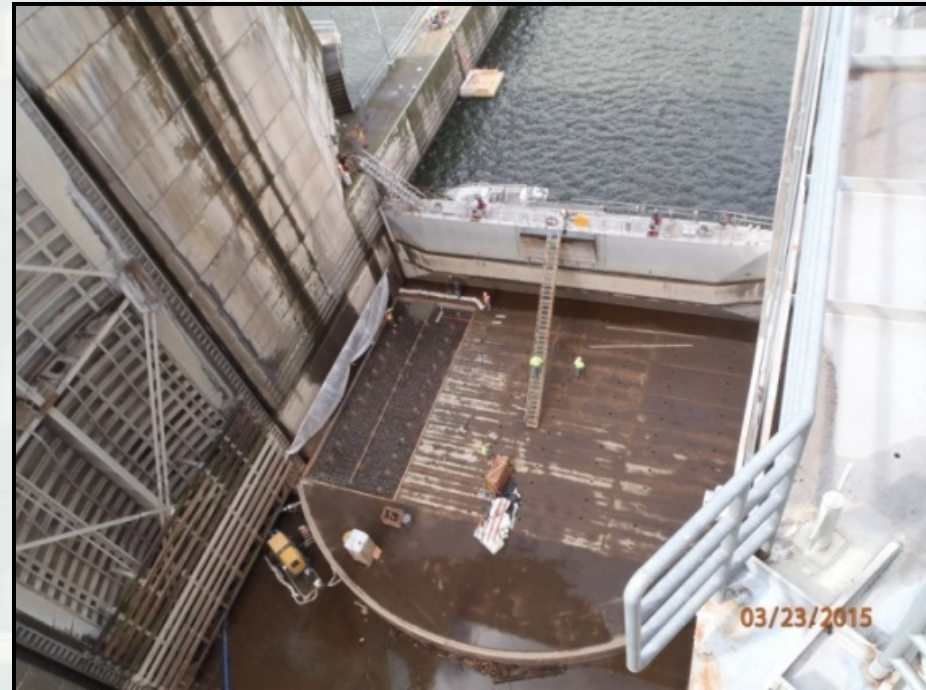
**Rick Werner, P.E.**  
Chief, Operations Division  
Walla Walla District

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



# Lower Granite

- Downstream gate sill repairs
- Replaced farval auto grease line
- Inspected and repaired US tainter gate trunnion bearing pin keeper
- Adjustment of tainter gate cable tension, skew, and timing
- Inspected and repaired miter gate anode
- US tainter gate gearboxes
- Minor crack repair on both fill valves.



**BUILDING STRONG®**

# Little Goose

- Replaced upstream gate cables
- Replaced downstream miter gate hydraulic power units (HPUs)



# Lower Monumental

- Tainter Valve 4 repairs ongoing
- LSP2 Transformer:
  - ▶ Failed Test
  - ▶ Contract is out for bid, NLT 20JUN
  - ▶ Redesign of switchgear is underway
  - ▶ Currently using rental transformer
- Completed wire rope inspection and lubrication
- Cleaned and spot painted corrosion areas of concern



# Ice Harbor

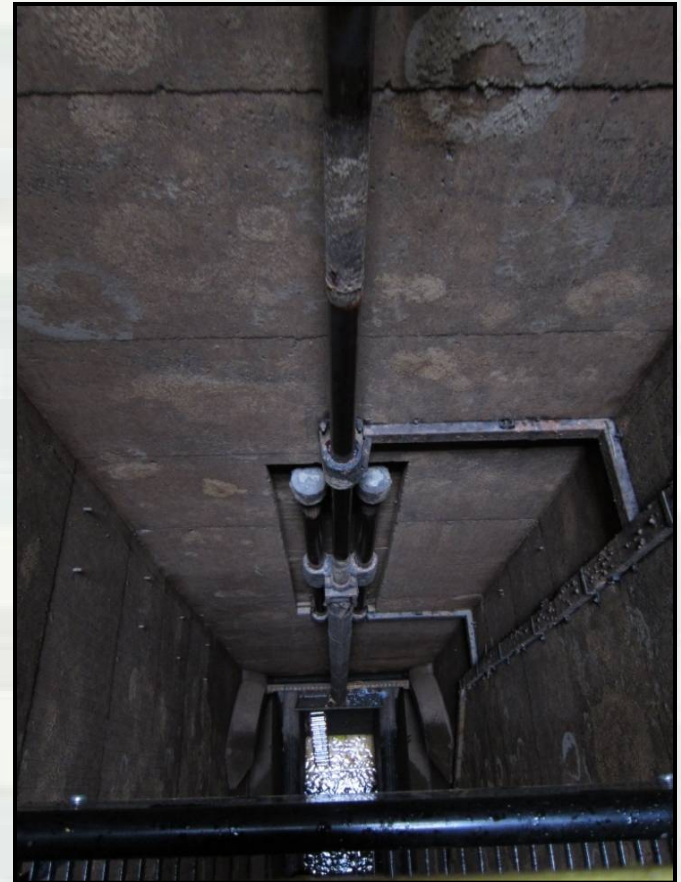
- Replaced upstream gate open gear sets and cables
- Replaced upstream gate side seals
- Downstream gate climbing inspection
- Replaced LSP switchgear motor starters with new models.



**BUILDING STRONG®**

# McNary

- Drain valve repairs
- Dam Safety Periodic Inspection
- Downstream miter gate crack repair



# Questions?



**BUILDING STRONG®**