

Rocky Reach Bridge Crane Refurbishment

Project Update
Commission Meeting Dec. 4, 2017.
No Board Action Required

Background

Refurbishment of the two Rocky Reach 250 Ton Powerhouse Bridge Cranes.

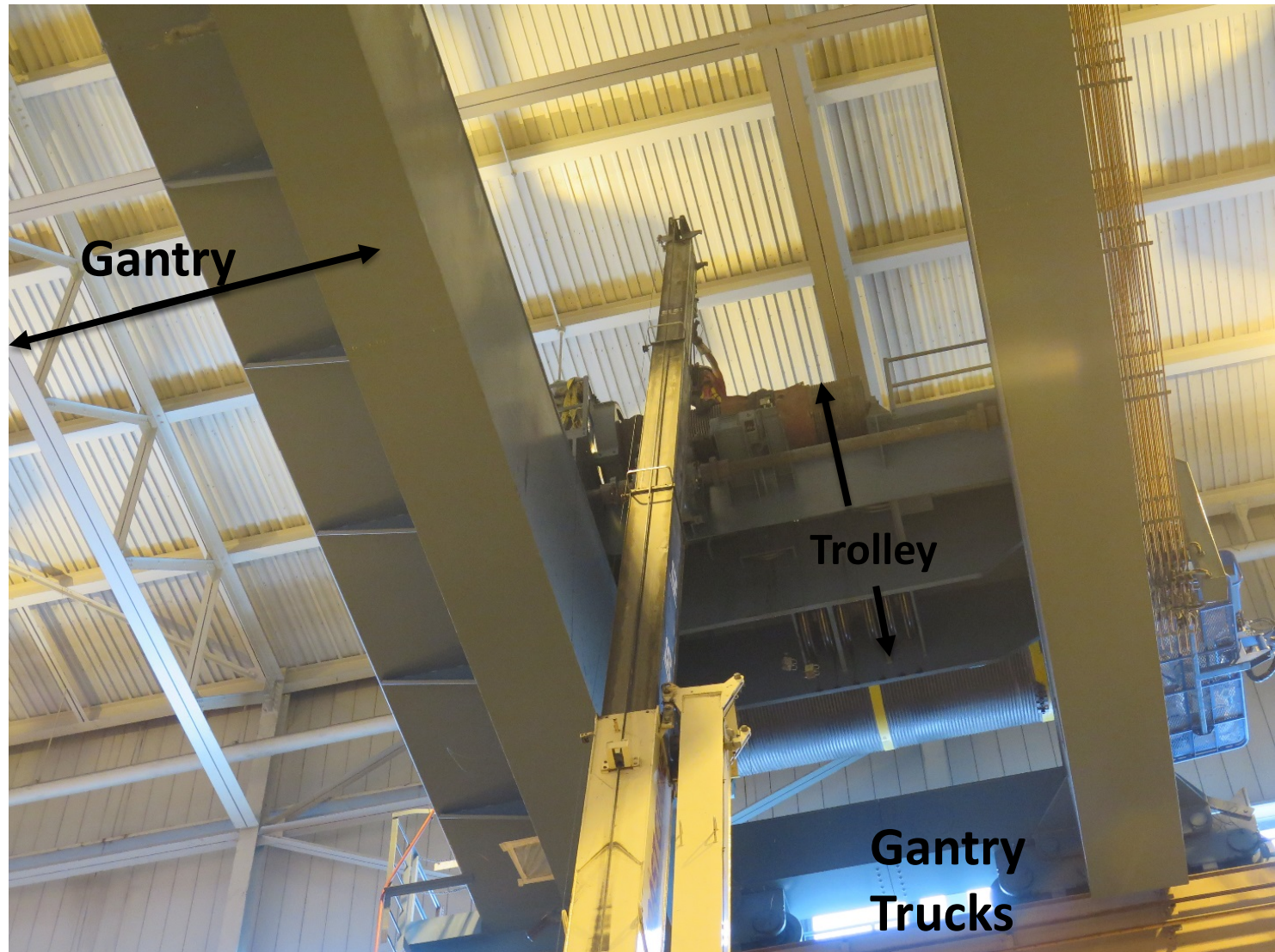
Contract 15-65 awarded for \$4.4M in May 2016.

Field work originally scheduled to start Dec. 2016.

Field work started after C8 re-assembly in Aug. 2017



Bridge Crane

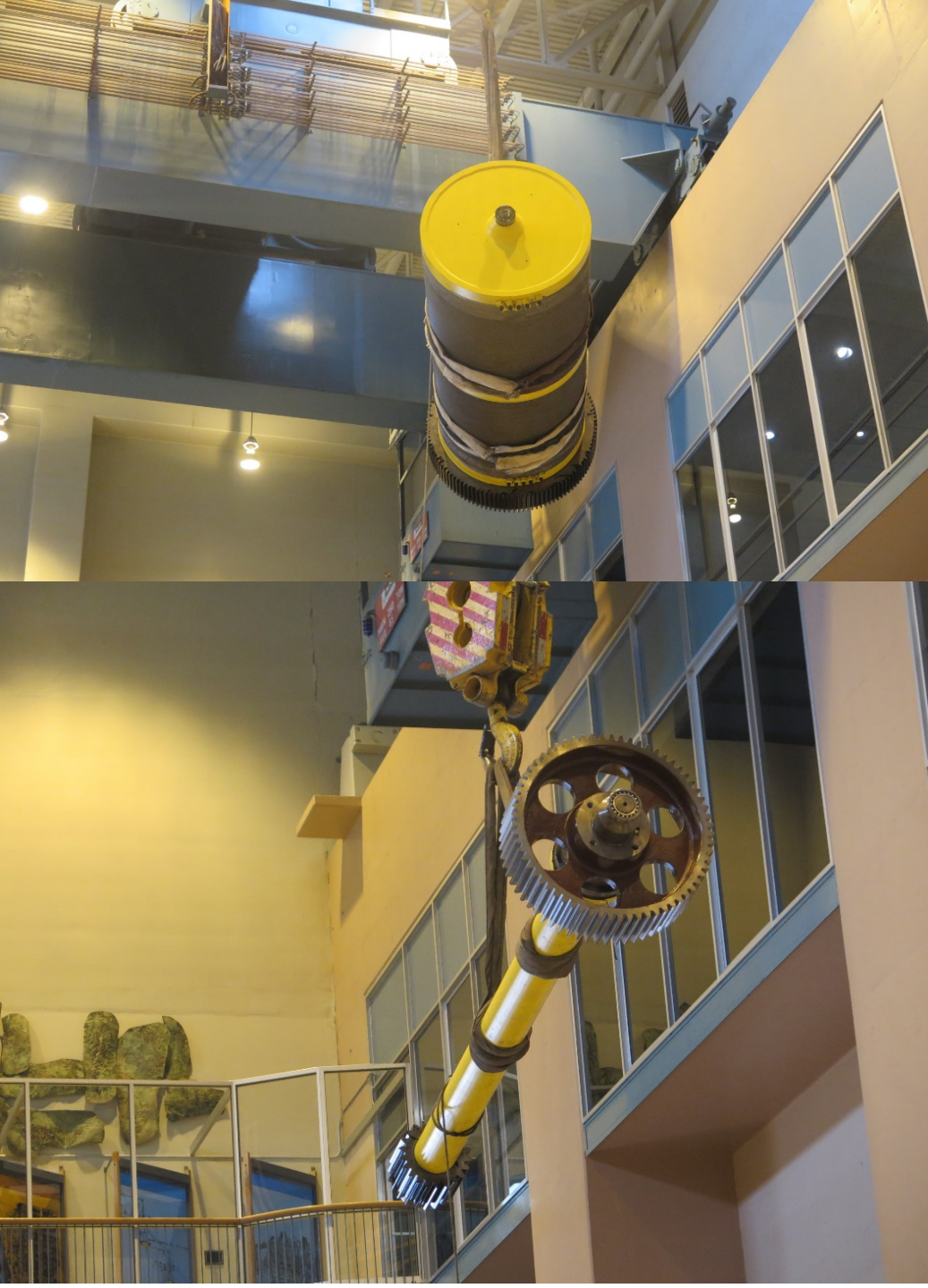




Scope

- Complete disassembly and inspection.
- Replacement of all electrical equipment and controls.





Scope

- Refurbishment of 250 ton main hoist mechanical equipment.
- Refurbishment of gantry and trolley drive equipment.



Current Status

Disassembly and inspections complete.

Numerous cracks in welds and material defects found on trolley structures. Repairs completed.

Significant damage found on all 16 gantry wheel housing structures (trucks). Evaluation and prototype repairs are underway.

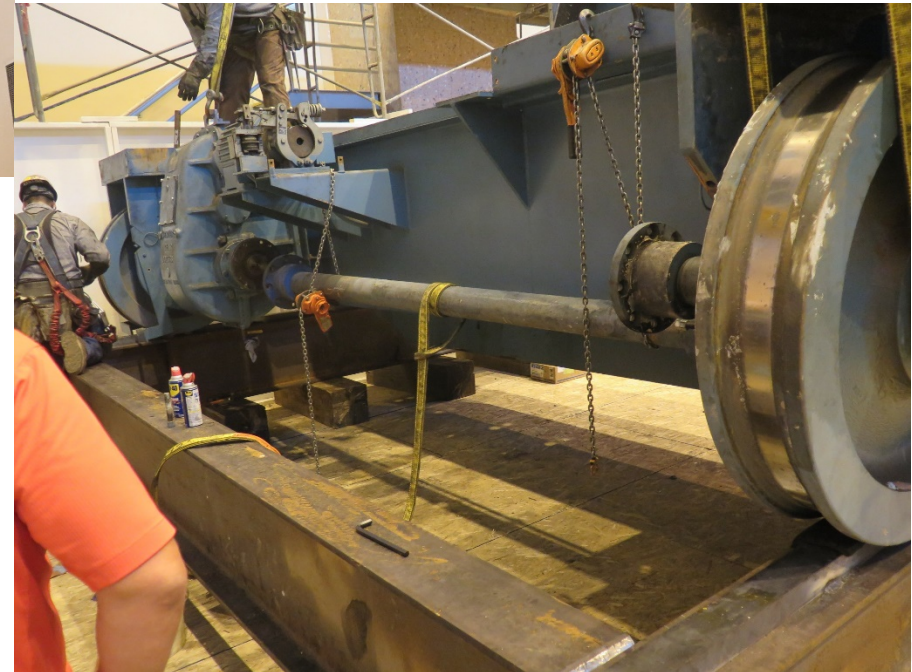


Trolley Remove and Disassembly



550 ton mobile crane
picked off components
through a hole in the roof

Components set on
powerhouse floor for
disassembly



Sandblast and Inspect Trolley Frames



Trolley Weld Cracks and Defects



Trolley Weld Repairs and Repainting



Truck Removal



Truck Housing Damage



New Sleeve in Truck



Bore Alignment Measurements



Summary

Schedule impact estimated at four months. Still working on options to minimize impact.

Causes delay in starting C9 Turbine Repairs. Need to negotiate change with Voith.

Cost impact for additional inspection and repairs estimated at \$550k. Need to execute Field Work Order(s) for truck repairs. Contract cost estimated at \$5.25 million. No budget revision - repair work O&M.

Total cost of project estimated to be \$2 million less than purchase of new and no risk of new design issues.



Questions?

