Steve Hartman Project Manager Walla Walla District

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















 Vertical Lift Gate Gate Replaced in 2011 84 feet tall x 88 feet wide 690 Tons Most of hoist machinery and electrical components are original equipment put into service in 1969 Refurbished gearboxes installed in 2011 Antiquated controls difficult to maintain and obtain replacement parts



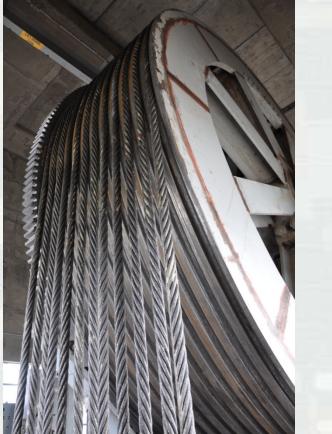




- Mechanical Upgrades
- Electrical & Controls Upgrades
- Structural Repairs & Upgrades







Hoist Friction Sheave – 18 ft diameter





Hoist Cables



Structural Upgrades & Repairs:

- Weld Repairs on Friction Sheaves
- New Machinery Supports
- New Machinery Room
 Work Platforms & Ladders
- New Tower Roof Guardrail
- Structural Upgrades for Overhead Service Crane Corbels









Similar New Equipment Bases – John Day







Mechanical Upgrades:

- Replace Hydraulic Power Units and Motors with Motor-Driven Gearboxes
- Install New Hoist Drive Pinion Gears, Bearings, and Brakes
- Install New Friction Sheave Bearings
- Replace Overhead Service Cranes



Existing Hydraulic Power Unit and Motor







New Mechanical Drive Equipment at John Day – Model Design for LOMO

New Pinion Gear & Bearings







Electrical & Controls Upgrades:

- Remove Hydraulic Control Panels and Motor Control Centers
- New Motor Control Panels
- New Variable Frequency Drives (VFD's) and Hoist Motors
- New Programmable Logic Controllers (PLC's)
- New D/S Lock-stand Operator Control Console



Existing Hydraulic Control Panel and Motor Control Center







Schedule:

- Advertise Contract Package: Late July 2015
- Receive & Evaluate Proposals: September November 2015
- Contract Award: December 2015
- Procure/Fabricate Long Lead Time Equipment: April October 2016
- Pre-Outage Installation of New Overhead Service Cranes, Electrical & Control Panels, Conduit, and Wiring: October - November 2016
- Navigation Lock Outage Work Window: December 2016 March 2017





Questions?

