

Ergonomic Safety

Hydro Generation Construction

21 October 2024



CHELAN COUNTY

www.chelanpud.org

Hydro Construction

- Large, heavy equipment, materials & tools
- Confined spaces
- Repetitive motion stresses
- Working environment (atmosphere, etc.)
- All can lead to Worker Safety Risks



Steps for Improvement

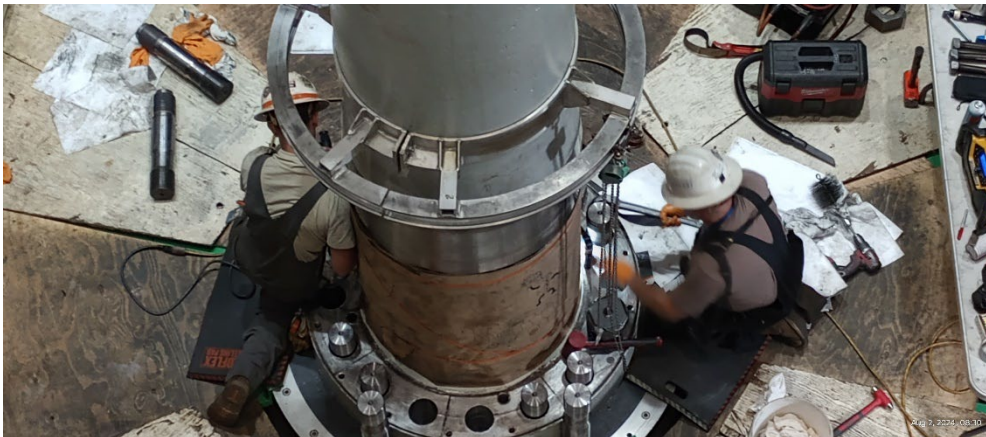
- Identification (“see something, say something”)
- Combined resource views & discussion
(CM/Plant, Safety, Project Delivery/Engineering)
- Design / Procure / Test
- Manufacture & Implement



Heavy / Awkward Lifting

Turbine Shaft Hoist Rail

- Clamps onto turbine shaft
- Relieves worker from stress of lifting:
 - Coupling studs & nuts
 - Torque Wrench



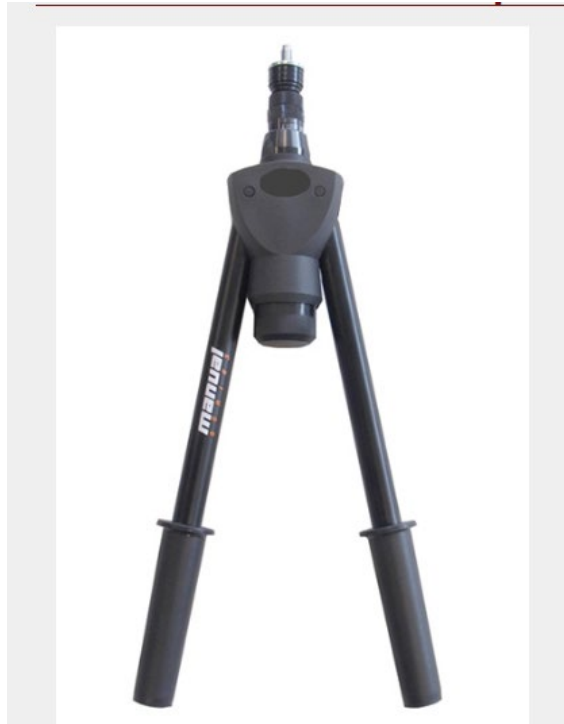
CHELAN COUNTY

www.chelanpud.org

Repetitive Motions

Replace manual hand tools with powered

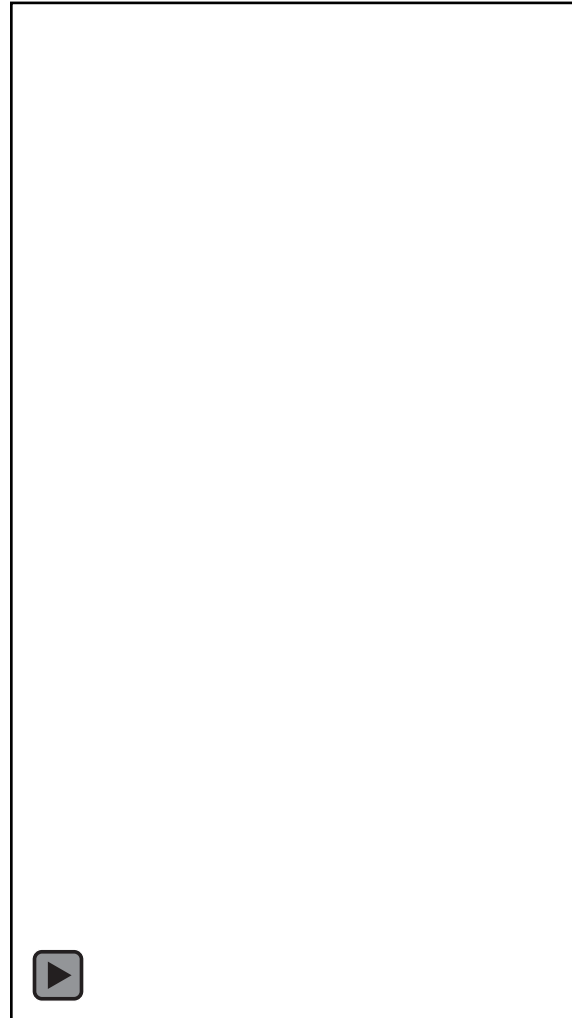
- Battery
- Pneumatic / Hydraulic



CHELAN COUNTY

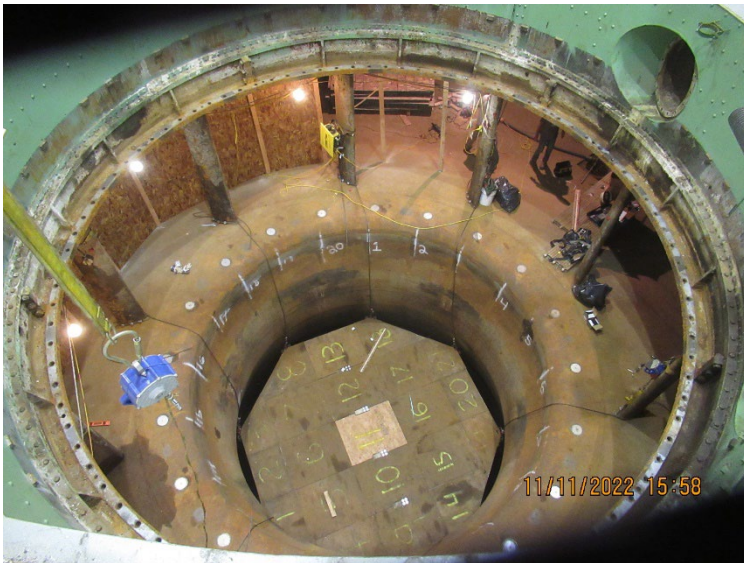
www.chelanpud.org

Repetitive Motions



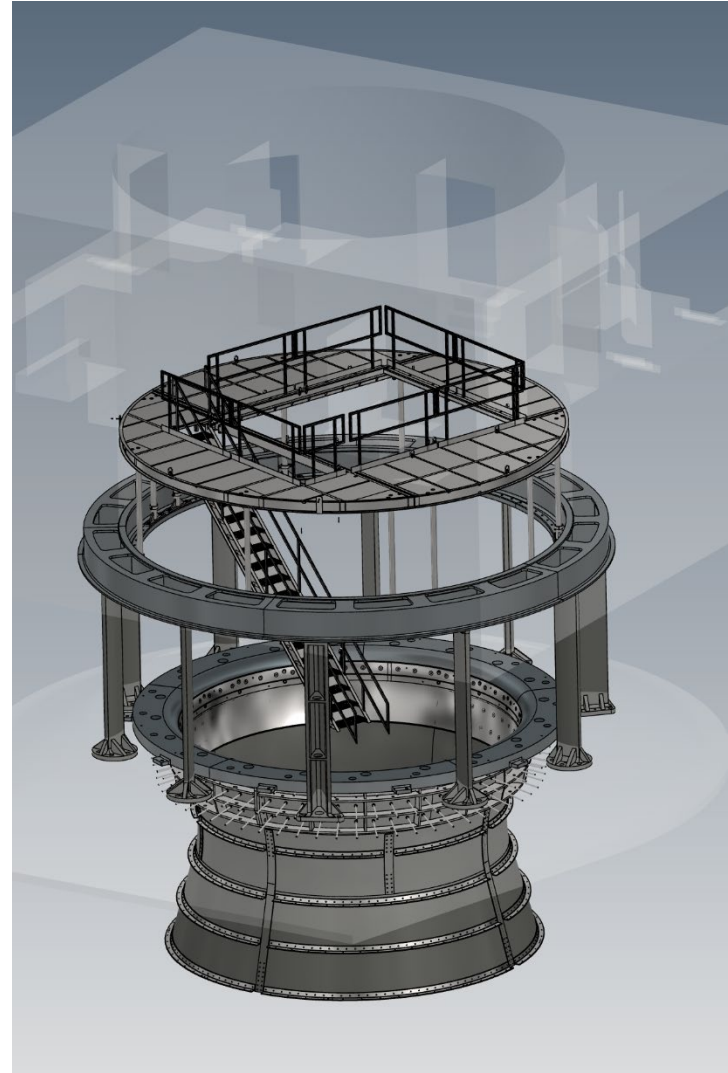
Access / Egress / Environment

- Water Passage Work
- Confined Space
- One means of Access / Egress



Access / Egress / Environment

- Access and Containment Platform
 - Collaboration between PD, Safety, CM & Contractor
 - Provides stair access to water passage
 - Eliminates confined space designation
 - Provides support locations for handling tools and parts



Questions?

