



# Engineering Services Manager's Report

Engineering & Operations Committee  
Item 7b  
April 8, 2019

# Copper and Gene Reservoir Valves Project



# Copper and Gene Reservoir Valves Project

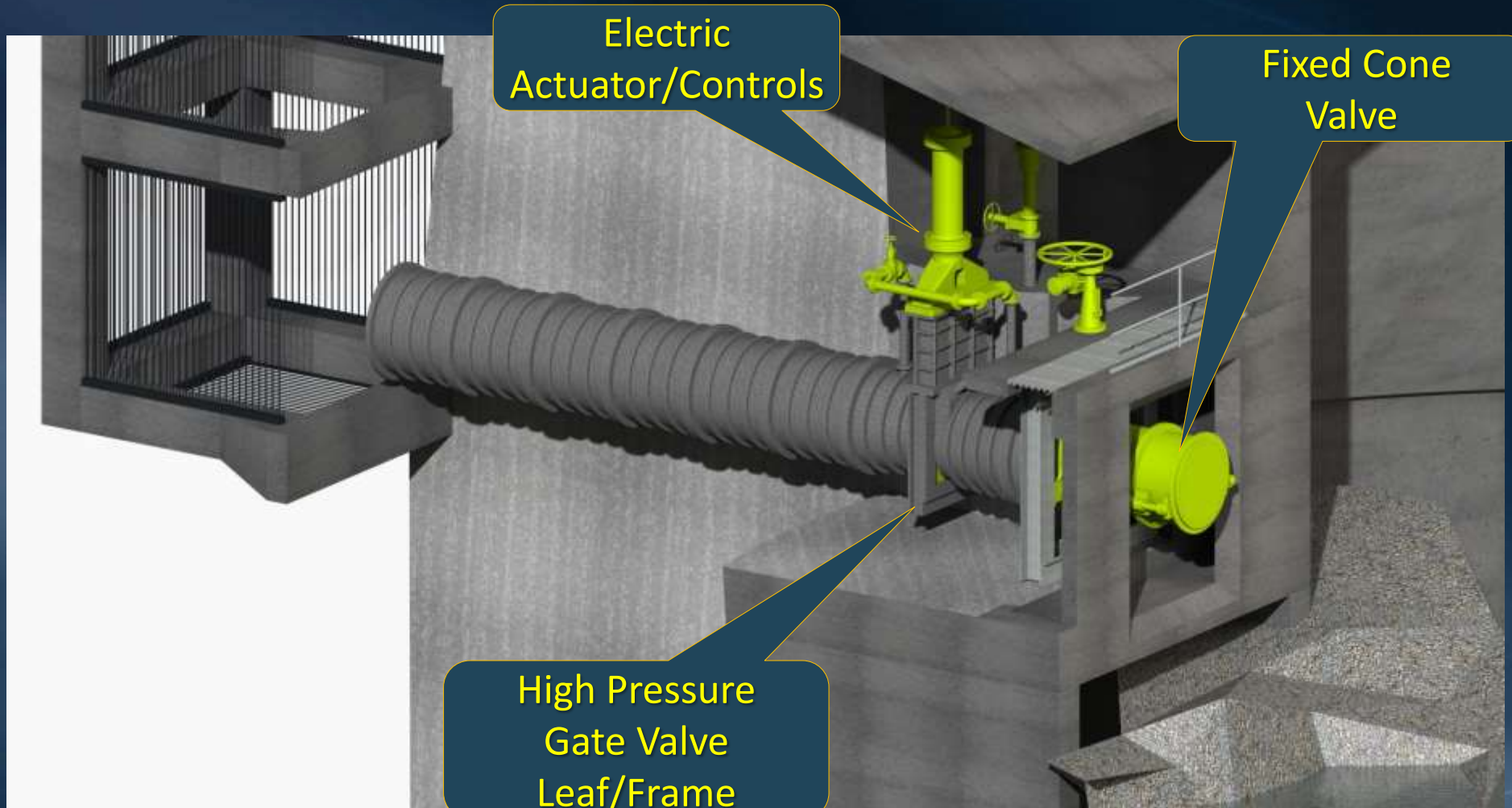




# Copper Basin Reservoir and Dam



# Existing Valve House and Sluiceway



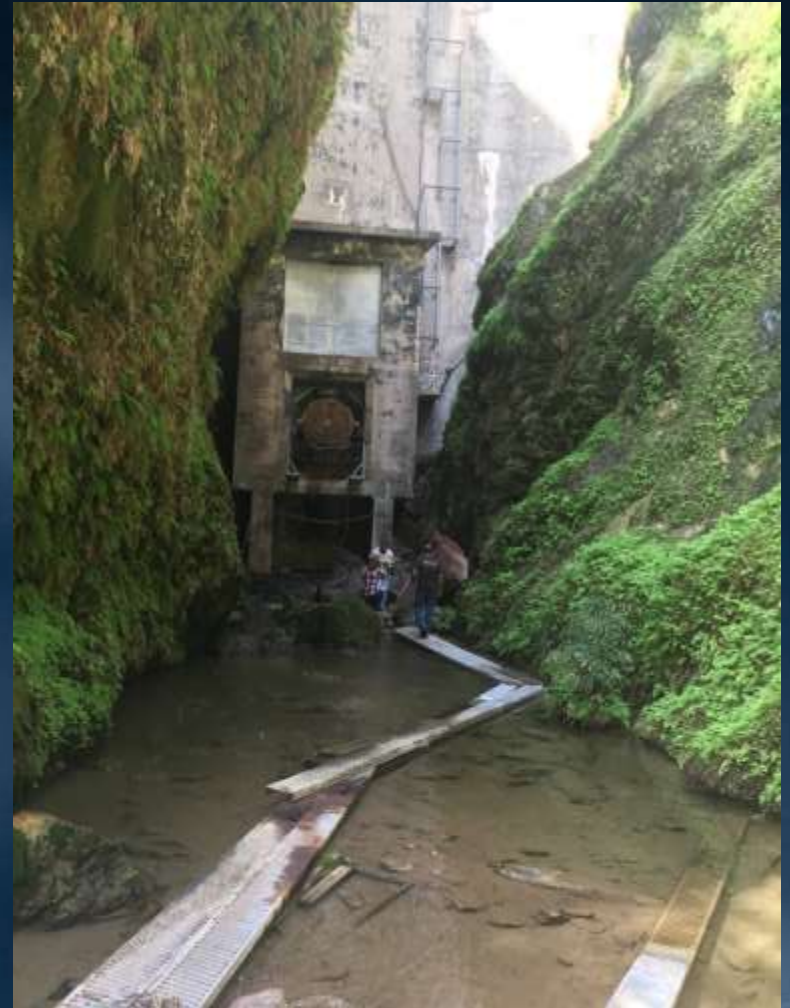
Electric  
Actuator/Controls

Fixed Cone  
Valve

High Pressure  
Gate Valve  
Leaf/Frame



# Copper and Gene Reservoir Valves

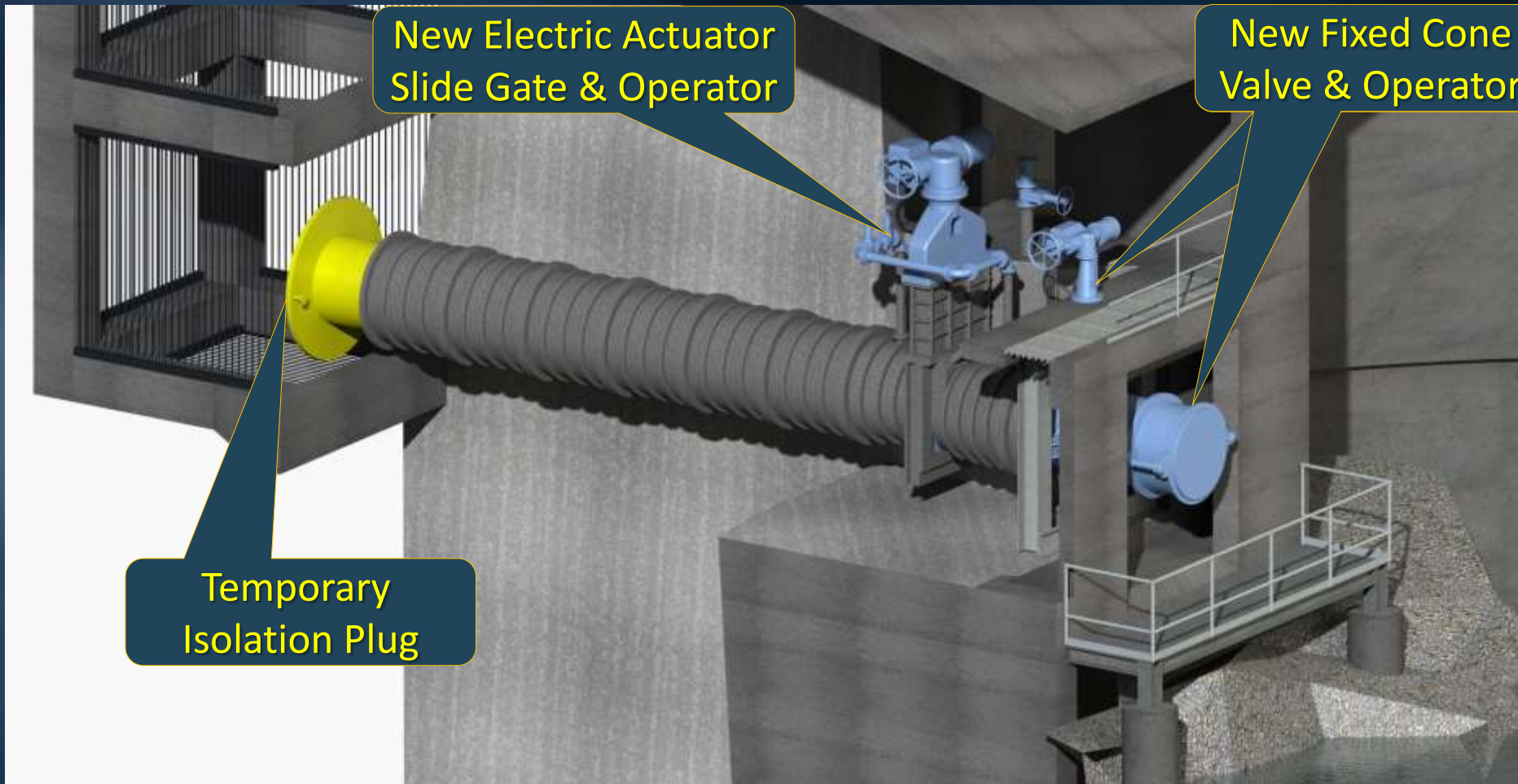


# Copper and Gene Reservoir Valves





# Copper & Gene Valve Improvements





# Copper and Gene Reservoir Valves

- Gene Wash Reservoir Valve
  - Board award of contract: July 2019
  - Construction complete: December 2020
- Copper Basin Reservoir Valve
  - Board award of contract: July 2020
  - Construction complete: February 2022

# HQ Seismic Improvements Project

- Contract amount :  
\$43,998,000
- Contractor :  
Bernards Brothers, Inc.
- Percent complete:  
5%
- Estimated completion:  
June 2022



# Parking Garage Shear Walls





# X-Rays of Beams in Parking Garage



# Construction of Demising Walls





