



ROCK ISLAND DAM SPILLWAY 1 REPAIRS PIER 1 REPAIRS

Project Summary

Rock Island Dam is a reinforced concrete structure. The base of the project is anchored to solid basaltic bedrock. Looking from the Douglas County side, a 590-foot-long gravity dam section rises above and in front of the left bank fishway. Attached to this wall is the 870-foot-long headworks which includes the first powerhouse. The spillway is divided by the center fishway and has a total length of 1,424 feet. The east spillway contains a total of 14 gates. The west spillway has 17 gates. The Second Powerhouse is 470 feet wide. The remaining length of the dam is taken up by the right bank fish facilities and assembly area.

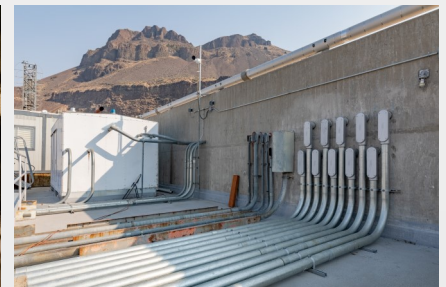
This contract Work included relocation of existing electrical conduit system and associated electrical circuits, installation of a new conduit support structures and maintenance access catwalks, repair of existing concrete expansion joints in the spillway deck, and installation of additional reinforcement in one of the spillway pier structures.

Burke Electric Scope

Burke Electric was contracted to relocate existing electrical and control conduit raceways embedded in the spillways concrete road deck. Demolition of existing conduit along the downstream face of the spillway deck between spill bays 1 and 32. Furnish and install cable tray inside the Powerhouse 1 electrical bay along upstream wall. Furnish and install raceways to interface with existing cable tray system. Cable pulls for new feeders and fiber optic cables from PH1 to PH2. Demo of existing and installation of new LED spillway fixtures. Install new 480VAC receptacles. Burke Installed approximately 13,000 feet of new rigid conduit along the face of the dam spillway which required concentric bending due to the radius of the existing downstream face.

Problems Encountered and Solutions Executed

Work along the spillway required the use of UBITs (under bridge inspection trucks) which required wide outriggers, blocking passage and access across the spillway. This work was therefore required to be conducted during a swing shift at night when access was less critical. Due to the timing of this contract, this work was subsequently also completed during winter, when temperatures dropped to roughly 10° F, not accounting for the wind chill. As this work was conducted over the spillway, all tools and equipment had to be tethered at all times, and fall protection equipped with PFD's were also required.



Equipment and Systems Overview

- Approx. 13,000 feet of 3" and 4" rigid conduit along dam Spillway
- Brackets
- Exterior Light Fixtures
- MV and LV wiring from PH 1 to PH2

Offeror Role

Subcontractor

Owner Information

Chelan County PUD
PO Box 1231
Wenatchee, WA 98801
509.661.4479

Contract Amount & Type

\$2,801,980—Firm Fixed Price

Customer Information

IMCO
2116 Buchanan Loop
Ferndale, WA 98248
Ryan Mitchell, Project Manager
360.671.3936

Project Start and Finish Dates

8/17/20—10/17/2020

Project Location

Rock Island Dam
1050 State Route 28
Rock Island, WA 98850

Burke Electric Project Personnel

Aaron Carpenter, General Foreman
Kelly Pruss, Foreman
Pete Kelly, Project Manager
Dominic Burke, COO
Katie Morton, Safety Manager

