CASE STUDY

Bureau of Reclamation Whiskeytown Dam MultiFunction Boom Series

WHISKEYTOWN, CALIFORNIA

IMPROVED FISH HABITAT AND PASSAGE WITH TEMPERATURE CURTAIN BARRIER

The Central Valley Project Improvement Act directs the Secretary of the Interior to "develop and implement a comprehensive program to provide flows to allow sufficient spawning, incubation, rearing, and outmigration for salmon and steelhead from Whiskeytown Dam." The Secretary appointed the Bureau of Reclamation (BOR) as the co-lead.

PNP responded to a request for quotation and built and installed an 800 ft x 42 ft temperature curtain to BOR's design. This fabric curtain was constructed of five-ply, 60 mil chlorosulfonated polyethylene (CSPE) Hypalon fabric and incorporates an integral 30" diameter steel frame boat passage gate. PNP custom-designed the flexible barrier to fit the location and delivered it in two sections requiring minimal on-site assembly.

This cost-effective temperature curtain restrains warmer water near the surface, causing cooler water from the deeper part of the water column to flow, providing a better migrating habitat. As a result, the BOR continues to meet federal requirements to improve fish passage and continue its mission to protect the environment.

KEY FEATURES

- 30" x 20 ft foam-filled steel floats
- 48" steel anchor buoys
- 5-ply 60 mil CSPE Hypalon fabric curtain
- 30" diameter steel frame boat passage gate
- Weights, chain, and all rigging components
- Shore anchors with clump weights on near shore curtain sections
- Deployed for year-round use
- Anticipated lifespan of 8-10 years
- On-time completion
- Met critical deadlines

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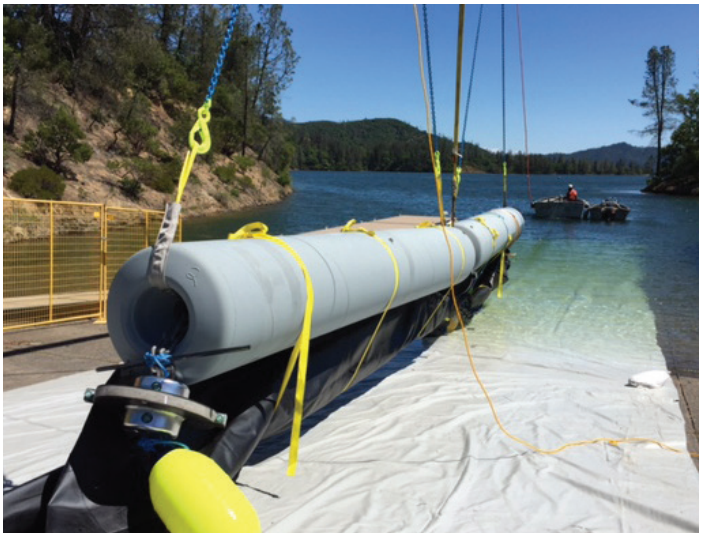
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