



El Dorado Irrigation District

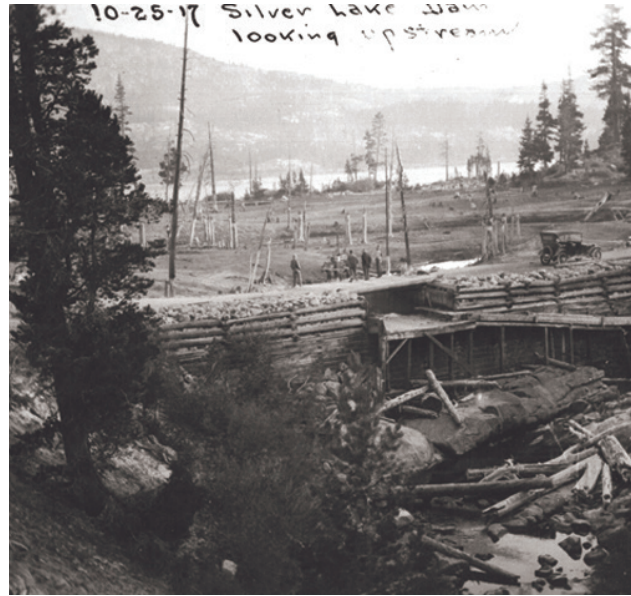
Project Background: **SILVER LAKE DAM**

Silver Lake is one of four high-elevation reservoirs associated with EID's El Dorado Hydroelectric Project federally licensed as Project 184.

The long-term reliability of the dam came into question in the spring of 2015 when a sinkhole was discovered. The likely cause was the creation of voids as a result of rotting interior logs that have been encapsulated as fill and were part of the original dam constructed in 1876.

As a result, EID, FERC and the California Division of Safety of Dams (DSOD) agreed for the need to address deficiencies in meeting current dam safety standards and provide long-term reliability.

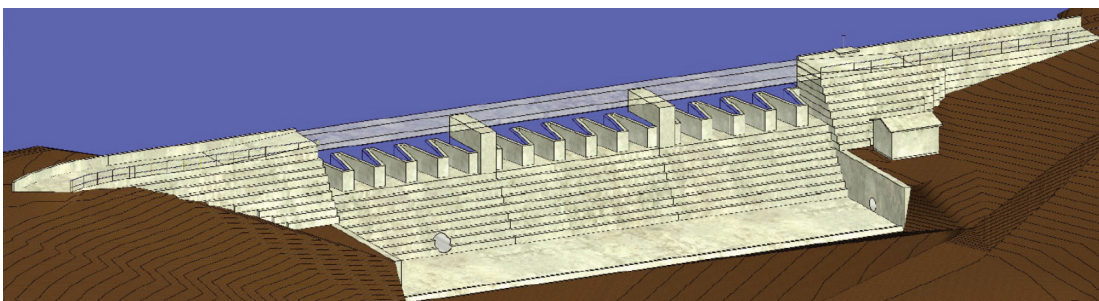
After conducting an alternatives analysis, EID, FERC and DSOD concluded replacement would best meet this objective. The repair option was not chosen because the dam would continue to experience degradation of its internal timbers, and limit long-term reliability.



Top: The 1876-era Silver Lake Dam as a Timber Crib in 1917

Middle: Current Silver Lake Dam with 1876 Timbers Internal to Dam

Below: Concept for New Dam. Benefits include meeting current safety standards, long-term reliability of water supply, ability for a longer storage season by not having a gated spillway and maintaining recreation values



Estimated Project Costs

TBD

Safety

The 1876-era dam no longer meets current dam safety standards for seepage control, ability to pass floods and structural integrity.

Impact

Replacing the dam will assure Silver Lake continues to serve as one of EID's primary reservoirs for water supply and power generation, and provide exceptional scenic and recreation opportunities.

Status

After developing design criteria and conducting foundation exploration for the new dam, 30 percent design is in progress. This will be followed by more detailed design phases along with environmental assessment and permitting. Construction is planned for 2027.