



Anderson Dam Seismic Retrofit Updated Schedule

Presentation to Board of Directors – October 23, 2018

Santa Clara Valley
Water District



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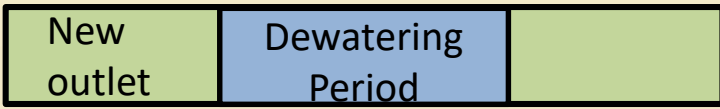
Anderson and Calero Seismic Retrofit Projects Current Planned Construction Schedules

2020	2021	2022	2023	2024	2025

Anderson



Calero



Drivers to Modify Construction Sequence

- ▶ Anderson and Calero Reservoirs dewatered simultaneously = water supply reliability risks.
- ▶ Anderson dewatered – loss of 20,000 AF emergency pool
- ▶ Calero Reservoir current restriction: 4,580AF. Holding 4,000AF for emergency purposes leaves only 580AF for day-to-day supply w/out Anderson.
- ▶ A retrofitted Calero Dam = 9,934 AF of storage; significantly mitigates risk of water supply reliability while Anderson is dewatered.



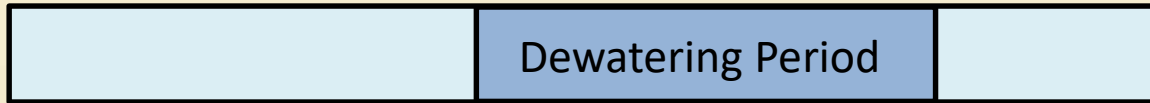
Anderson and Calero Seismic Retrofit Projects

Current/Proposed Construction Sequence

2020	2021	2022	2023	2024	2025	2026

Anderson

Current

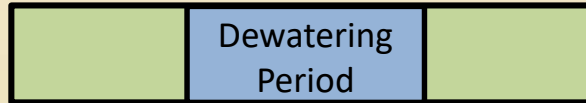


Proposed

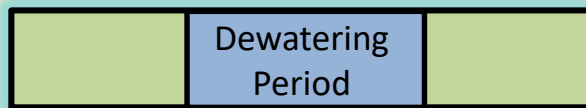


Calero

Current



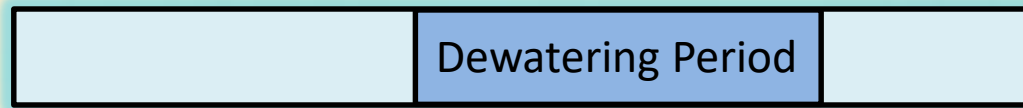
Proposed



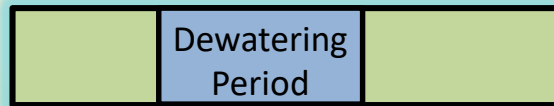
Four Dam Retrofit/Improvement Projects Proposed Construction Sequence

2021	2022	2023	2024	2025	2026	2027

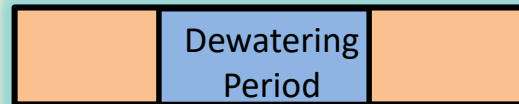
Anderson



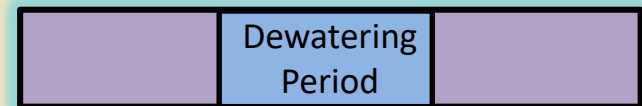
Calero



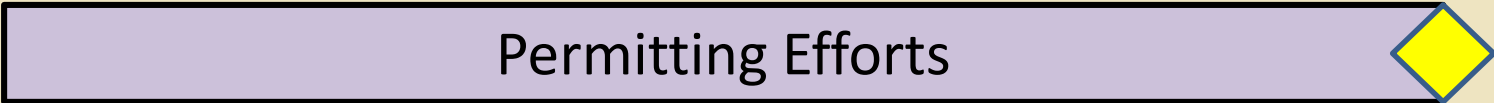
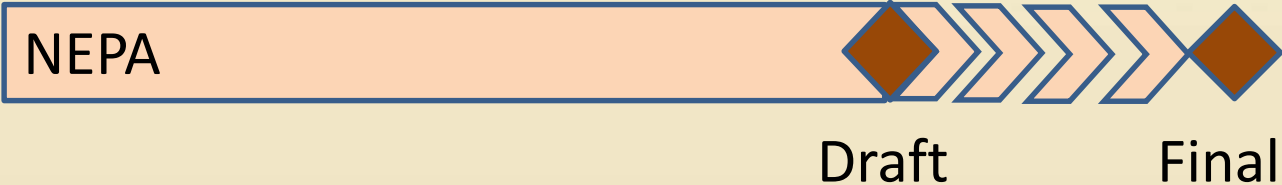
Guadalupe



Almaden



CEQA/NEPA/Permitting Timeline (April 2018 Schedule)



Recent Findings Drive Revisions to Schedule

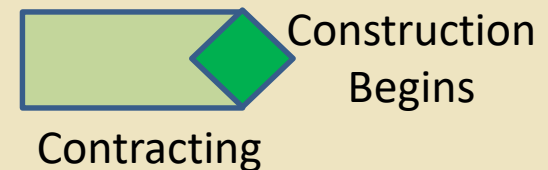
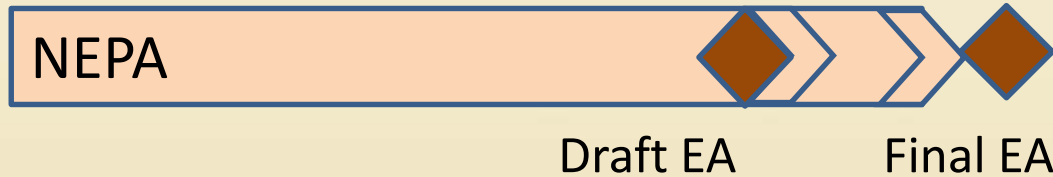
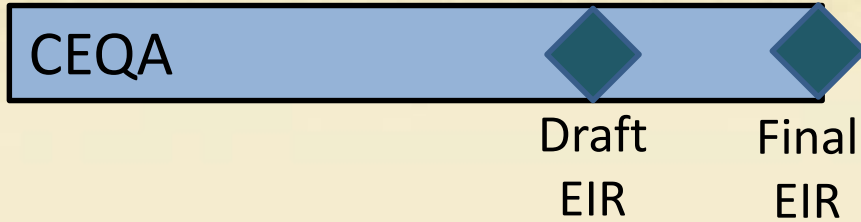
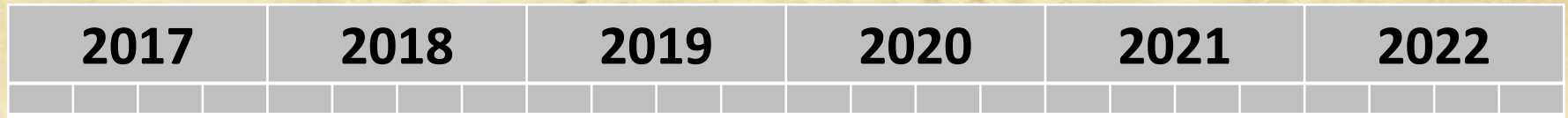
- ▶ Outcomes of informal consultations: Resource agencies desire to better align permitting schedule/needs with CEQA process.

- ▶ 60% design refinements from DSOD/FERC/Board of Consultants
 - ▶ Extended review cycles influencing various design features including new outlet works, unlined chute below concrete spillway, management of pass-through flows during construction, etc.

- ▶ Data gaps / Pending District decisions
 - ▶ Stockpile options and use of a conveyor system;
 - ▶ Decisions on dewatering that may flood downstream properties, potential impacts to species
 - ▶ Identification of suitable candidate mitigation sites;
 - ▶ Baseline data related to current operations, such as temperature strata (and management of) within the reservoir;
 - ▶ Fish assemblage upstream/downstream and within the reservoir.



Revised CEQA/NEPA/Permitting Timeline



Advantages of Revised Environmental/ Permitting Schedule

- ▶ Aligns well with the interests of the resource agencies;
- ▶ Allows for inclusion of recent design refinements driven by DSOD/FERC/BOC;
- ▶ Leads to a more thorough impact analysis of the refined design;
- ▶ Better identification and development of mitigation options;
- ▶ Allows for inclusion of more data/information:
 - ▶ Potential of downstream flooding;
 - ▶ Impacts and solutions related to biological and cultural resources, etc.





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