Overview

• Goals
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Goals

• Maintain dam safety
• Provide flood control benefits
Objectives

• Meet the USACE’s 1970 WCM requirements

• Safely pass the SPF without activating the Emergency spillway

• Ensure
  • Equal or Greater Flood Protection
    • Elevations
    • Releases
    • Downstream flow levels

• No Increase to Dam Safety Risk
Oroville Dam Outlets

- Emergency Spillway: 901 ft
- Flood Control Outlet (FCO): 813 ft
- Top of Dam: 922 ft
- Hyatt Powerplant
- River Valve Outlet System (RVOS)
Operational Constraints

- Follows 1970 water control manual
- Limits FCO releases to 150,000 cfs in line with the 1970 WCM
- Avoids use of emergency spillway
  - Pass standard project flood (SPF) without using emergency spillway
- Does not increase the frequency at which critical pool elevations, releases, or downstream flow levels are exceeded
Operations Strategy for November 2018 to June 2019

- Maintain flood control standards given the construction status of the Main and Emergency Spillways
  - Emergency Spillway enhancements not complete until Spring
    - Manage and pass events up to and including the standard project flood (SPF) without using the Emergency Spillway

- Limit FCO releases to 150,000 cfs

- Enhanced Flood Pool (Increases from 750 TAF to 920 TAF)
  - Uses 1970 WCM release schedules and ramping rates
  - Operates more conservatively than current 1970 USACE WCM
Lake Oroville
Existing Flood Control Diagram

1970 WCM: Wetness Index = 3.5 or less

1970 WCM: Wetness Index = 11 or greater
Lake Oroville
Enhanced Flood Control Diagram

- 1970 WCM: Wetness Index = 3.5 or less
- 2018/19 Plan: Wetness Index = 3.5 or less
- 1970 WCM: Wetness Index = 11 or greater
- 2018/19 Plan: Wetness Index = 11 or greater
Operations Strategy
for November 2018 to June 2019

• RVOS - contingency and temperature management

• Continue to meet fishery and water supply objectives when the flood control and dam safety needs outlined in the plan are not controlling
Next Steps

• Briefed FERC, DSOD and USACE
  • Will provide Plan to FERC, DSOD and USACE

• Still coordinating with the USACE over interim flood rules and working towards a formal update of the WCM