

## Attachment 1

### Central Valley Project (CVP) Hydropower Outage Scheduling – Framework

Maintenance outages and generation/transmission/capital improvement outages are generally longer term, planned and scheduled in advance. The Central Valley Operations Office (CVO) along with the Reclamation Area Offices (AO) use long range, short range, and real-time outage schedules to coordinate outages. The outage time varies with the work that is anticipated to be completed and planned accordingly.

Maintenance outages and generation/transmission/capital improvement outage schedules are coordinated and discussed at the Mid Pacific/Sierra Nevada Region (MP/SNR) Quarterly Outages, Operations and Maintenance Coordination meetings. At these meetings, maintenance outages, generation/transmission/capital improvement outages and projects requiring coordination are discussed on a project-by-project basis. Also, the Maintenance and Major Project Planning Committee (MMPPC) discusses generation and transmission capital improvement outages among the group participants.

The MMPPC provides CVP power customers the opportunity to evaluate major maintenance and projects that are needed on the system in the future. The planning of outages is based on the timeframe the project needs to be completed within, and when the best time to suggest the outage take place. To provide power customers an opportunity for evaluating these outages and understand the general processes involved, Reclamation and WAPA have developed this Framework.

- Maintenance outages and generation capital improvement work that requires outages involving Reclamation is submitted as outage requests by the AO to Central Valley Operations Control Center (CVOCC). CVOCC evaluates each request on factors including, but not limited to the season the outage is being requested, the timeframe the outage will require and the best time to take the outage related to water and power needs. If the outage will result in reduced CVP generation output, CVOCC will work with WAPA Power Marketing to determine the economic impact of the outage and, if necessary, establish alternative schedules for the outage to mitigate financial impacts to customers when feasible. WAPA transmission work that requires outages is submitted to the SNR outage office and is similarly evaluated.
- Once Reclamation maintenance and generation capital improvement outages are approved by CVOCC with input from WAPA SNR outage office, the AO outage requestor is notified that the outage has been approved and has been added to the outage schedule. Pending verification from bulk electric system reliability entities that real-time conditions still support the outage as planned, the outage is authorized to proceed on the date requested. Maintenance outages and transmission capital improvement outages that affect CVP generation facilities are integrated and coordinated between Reclamation and WAPA.
- WAPA and Reclamation can share lessons learned on prior outages with the MMPPC as requested.

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- The coordination and discussion with the MMPPC provide a path for feedback on past, current and future outage processes and performance and seeks to identify opportunities for improvement. The findings of the MMPPC are also brought to the MP/SNR meetings. Concerns or requests from the MMPPC are considered in outage scheduling.
- Reclamation, WAPA and Preference Power customers may revisit this Framework from time to time to evaluate its applicability and identify if changes are necessary if requested by Reclamation, WAPA or Preference Power Customers.
- This document does not provide any express or implied right to power customers beyond those already defined by existing law or contracts.