



## MEMORANDUM

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**TO:** FRANCES MIZUNO, INTERIM EXECUTIVE DIRECTOR

**FROM:** TOM BOARDMAN, WATER RESOURCES ENGINEER

**SUBJECT:** NOVEMBER PROJECT OPERATIONS UPDATE

**DATE:** OCTOBER 31, 2018

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### Project Operations

- Jones pumped at capacity during most of October thanks to sustained flows for salmon protection and reduced delta outflow requirements. However, pumping will be limited to 2-4 units (1800-3500 cfs) during early November due to increased rice decomp diversions, an additional 500 cfs outflow requirement for November, and scheduled maintenance at Jones and O'Neill. Absent storms during the latter half of November and December, Jones pumping is expected to be between 2-3 units.
- Banks pumping averaged about 3,560 cfs during October and is expected to reduce to 1000-2000 cfs during November in order to meet its share of delta requirements while holding Feather River flows at 2,250 cfs. Oroville storage is 72% of normal compared to near-normal levels in Shasta and Folsom
- The SWP COA debt to the CVP is about 170 TAF because the SWP pumped unused CVP water in the delta during late September and most of October. The balancing of the COA account over the next two months may support higher CVP exports amidst possible dry conditions and lower upstream CVP releases.
- Shasta storage is 2.2 MAF; a drop of 200 TAF during October. Current releases are 6,000 cfs to maintain sufficient water levels for rice decomp diversions. Releases are expected to reduce to about 4,500 cfs by early November in efforts to avoid stranding of fall-run salmon and to conserve Shasta storage. Refill for Shasta next spring is estimated to be 3.5 MAF and 4.2 MAF under 90% and 50% exceedance conditions, respectively.
- Folsom storage is trending very near Reclamations latest operations forecast with current storage at 403 TAF. Releases are at 1,500 cfs and may be increased to 1,800 cfs to improve fall-run salmon spawning
- CVP demands were about 215 TAF during October which is about 50% above the 15 year average.

### 2018/19 San Luis Operations and Allocation Projection

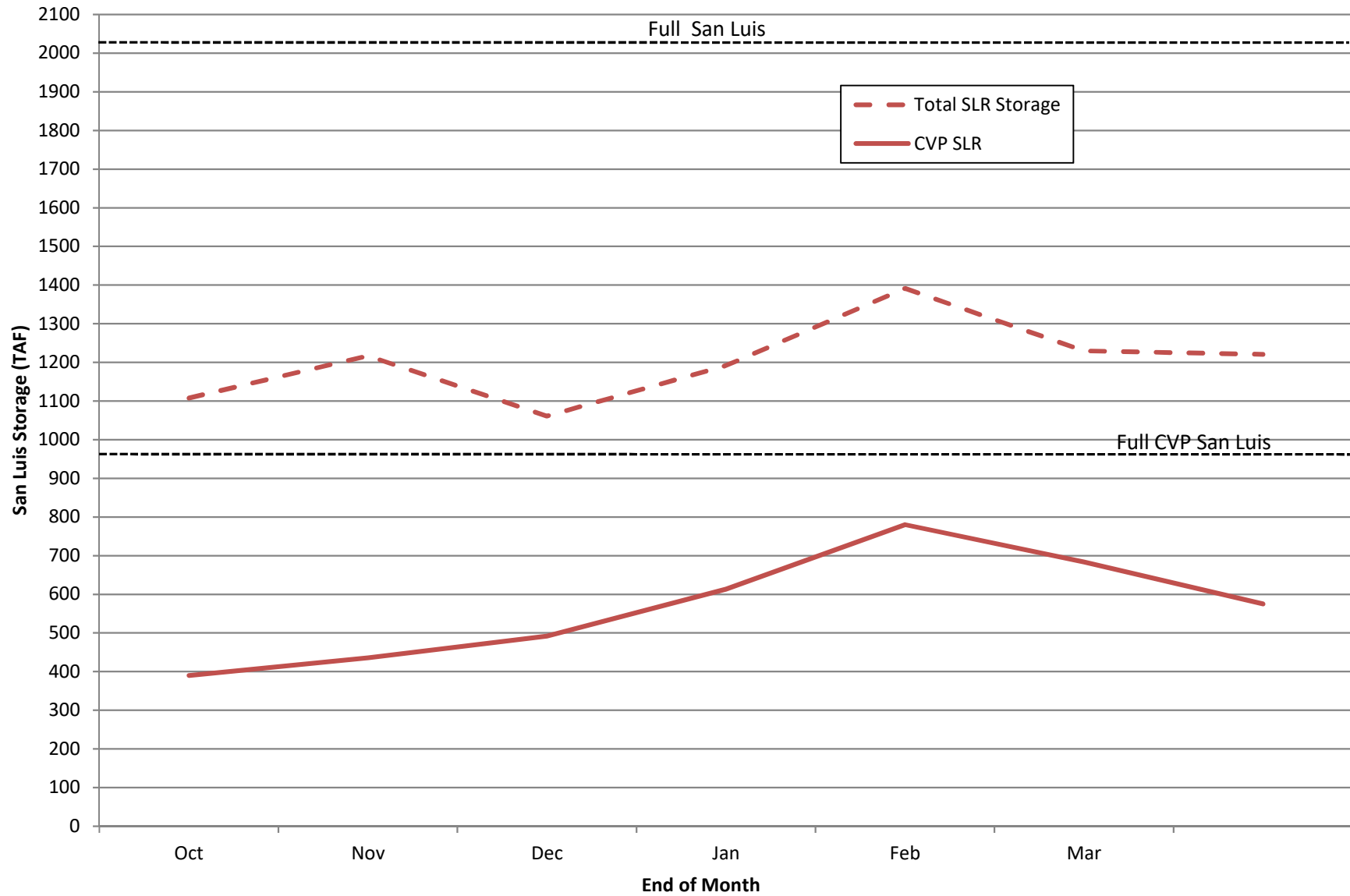
Increased refuge demands limited CVP San Luis refill to about 35 TAF during October. As shown on the attached San Luis projection charts, CVP San Luis will fall short of filling by

190 TAF under dry conditions, but is expected to fill be early next year under normal hydrology.

With near average upstream storage and CVP San Luis storage projected to hold at least 700 TAF plus rescheduled water by next spring, the Ag allocation is expected to be 25-45%. The ag allocation will be in the upper end of the range under normal hydrology and could increase to 65-70% if the San Joaquin basin hydrology is above average by late spring.

# 2018/2019 San Luis Storage Projection

## 90% Exceedance Hydrology



# 2018/2019 San Luis Storage Projection

## 50% Exceedance Hydrology

