



Engineering & Operations Committee

Water System Operations Manager's Report

Item 7a

Monday, August 15, 2022

10:30 a.m.

Current Operational Conditions

Continuing Drought Operations

- 2022 SWP Allocation is 5%
- SWP blend targets are 0% at Weymouth, Diemer, and Skinner plants
- DVL to Mills drought operation continues to perform well
- Managing storage based on WSDM principles
- July 2022 deliveries of 156 TAF were 14 TAF lower than July 2021



CRA Operational Challenges



Working Hard to Maintain 8-Pump Flow

- Additional chlorination to control algae growth
- Scraping canal sections to remove sediment and growth that can restrict aqueduct flow
- Additional sand trap maintenance and cleaning
- Additional inspections and manual elevation readings
- Weekly reservoir cycling at Eagle Pump Plant
- Rapid repair response to maintain 8-pump flow and keep spare pumps available
- Increased coordination to manage operations

Hoover Dam Transformer Fire – July 19, 2022



Publicly available photo from media outlets

- Hoover Dam experienced an electrical transformer fire taking a hydro generation unit offline (Arizona-5 or A5)
 - No injuries and fire isolated to single transformer
 - One of 17 generation units at Hoover Dam unavailable
- Video of explosion and resulting fire captured by bystanders and reported by multiple media outlets
- USBR fire crews quickly responded to put out fire
- Unit A5 is currently out of service pending transformer repair or replacement
 - Unit A5 is nominally rated at 130 MW but derated to 73 MW due to low Lake Mead levels

Hoover Dam Electrical Transformer Fire

Publicly available photos from media outlets



Transformer fire at Hoover Dam



USBR fire crews extinguishing fire

Temporary Reduction of Hoover Generation and **Increased CRA Energy Costs**

Impact to Metropolitan



- **No impact to CRA pumping operations**
- CRA 8-pump flow requires ~300 MW total
- Loss of Unit A5 reduces Metropolitan's allocation of Hoover power by about 10 MW
- Procurement of additional supplemental energy and Resource Adequacy capacity required
- Estimated CRA energy cost increase of over \$2 million for remainder of 2022
- Staff coordinating with USBR and WAPA on cause of failure, repair schedule, and lessons learned

Ready for Upper Feeder Shutdown

Upper Feeder Leak Repair

- Flange welding completed
- Slip joint completed
- Site prepped and contractor mobilizing
- Conservation outreach occurring
- 15-day shutdown scheduled for September 6th



