



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



*Publicly available photo from media outlets*

## Hoover Dam Transformer Fire – July 19, 2022

- 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**

August 15, 2022



**USBR fire crews extinguishing fire**

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## Impact to Metropolitan



# Temporary Reduction of Hoover Generation and Increased CRA Energy Costs

- 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



# Upper Feeder Leak Repair

## Ready for Upper Feeder Shutdown

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



