



WAPA Energy Management Overview

Chrystal Dean – CRSP Project Manager



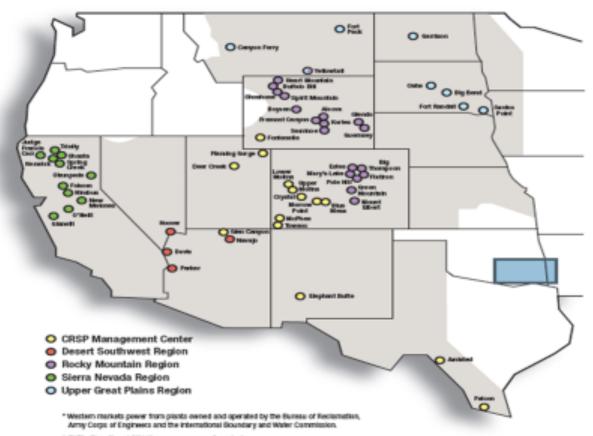
October 27th, 2016

CRFS Technical Committee Meeting Salt Lake City, UT

Who we are...

WESTERN AREA POWER ADMINISTRATION

Powerplants



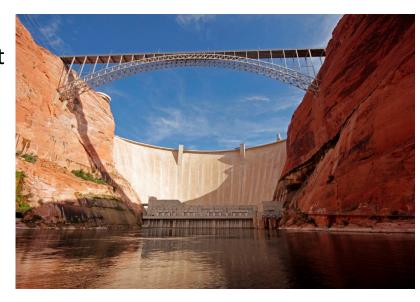


Systems managed in Montrose, CO

- Colorado River Storage Project- Seven Power plants
 - Glen Canyon
 - Aspinall Units Blue Mesa, Morrow Point and Crystal
 - Flaming Gorge
 - Fontenelle
 - Molinas Upper and Lower
 - Loveland Area Project 22 power plants:
 - Big Horn System
 - North Platte System
 - Fryingpan-Arkansas System
 - Colorado-Big Thompson System

Project Manager Responsibilities

- Analyze forecast of predicted hydrological conditions and load requirements.
 - Up to a year out. Minimum looking at the next season
- Act on the forecast analysis to balance resource and load in the most economic manner.
 - Purchase and/or Sales of energy
- Regularly interact with The Bureau of Reclamation hydrologists and Plant Personnel
 - 24-mo. Study
 - Technical Work Group Meetings



Project Management, continued



- Each Manager must coordinate generation outages with multiple groups: BOR (Loveland, Casper, Salt Lake City, Grand Junction), WACM, Water Conservancy Districts, and Internal personnel
- Be cognizant of how generation and or transmission outages affect overall system reliability, and Firm Electric schedules.
- Communicate with customers giving appropriate advance notice.

After the Project Manager...

- Once our long(er) term forecasts are complete
 - Daily Prescheduling
 - Making two to three day schedules
 - Have the ability to fine tune the Project Managers projections
 - Real Time Marketing
 - Hour by hour balancing of resources to loads
 - Spring Runoff and big events most impacting
 - Continuous discussion with Reclamation and our internal hydrologists to adjust our operations based on current/actual hydrology.

Questions?

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