WAPA Energy Management Overview

Chrystal Dean – CRSP Project Manager

October 27th, 2016

CRFS Technical Committee Meeting
Salt Lake City, UT
Who we are...
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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