Colorado-Big Thompson Project
2022 Operations

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HUP Wrap-up Meeting 09 March 2022
Outline

- C-BT Project Current Status
- Colorado River Collection System Runoff Operations
- Green Mountain Reservoir Run-off and Fill Operations
C-BT Overall Conditions

• 103% of March 1 average Project Reservoir Storage
• Storage down about 30 KAF since last year
• Green Mt. Reservoir is 86% average 9 KAF lower than last year
Colorado River Collection System
2022 Run-off and Fill Operations

• March 1 April-July Most Probable snow melt forecast:
  • Willow Creek, 49 KAF (97% of average)
  • Three Lakes, 199 KAF (95% of average)

• Granby Reservoir does not fill or bypass excess water
  • Anticipate no reduction in Secretary of Interior required release
  • 10,825 water from Redtop Ditch available for Endangered Fish Recovery Program
  • Storage available for Northern Water Windy Gap diversion

• Extensive burn in Willow Creek drainage
  • Fire scar concerns with operations

• Grand Lake Clarity Adaptive Management beginning July
  • Concern with fire impacts on water clarity
Green Mountain Reservoir
2022 Run-off and Fill Operations

• March 1 April-July Most Probable snow melt forecast: 240 KAF (87% of average) (March 2021 67% of average)
• Reservoir does not obtain physical fill in most probable case
  • Reservoir maximum storage of 145 KAF near July 1
  • Forego power generation through-out fill season
  • 79 KAF available for Denver and Colorado Springs to divert against the 1935 Direct Flow Power Generation Water Right during fill
  • Cities substitution obligation estimated at 7 KAF
• All allocations refilled with GMR storage and Substitution
  • 66 KAF HUP allocation refilled
  • 20 KAF Contract Water refilled
• Coordinated Reservoir Operations (CROS) not likely
Green Mountain Reservoir March 2022 Forecasted Operations

- Minimum Probable
- Most Probable
- Maximum Probable
- Full Reservoir
- Heeney Operating Restriction
Green Mountain Reservoir
Operating Restrictions

• Heeney Slide Operating Restriction
  • 0.5 foot per day maximum draw down below 7865 ft (37 KAF)
  • Not anticipated for this year's operations
  • Minimum expected water surface elevation of 7882 ft April 2022

• Green Mountain Penstock Recoating Project
  • Both turbine penstocks and bypass valves will be rehabilitated
  • Project start in November 2022 and completed Summer 2022
  • One turbine available always to meet delivery obligations
  • Not anticipated to impact delivery obligations
  • Will likely affect Direct Flow maximum capacity during 2023 Fill year
Green Mountain Reservoir
April 2021 Irrigation Diversion Startup

• Potential for HUP April release to increase stream flow
  • Approximately 12 KAF of HUP carry over
  • May be used for irrigation direct delivery or surplus for Recovery Program
• April HUP release not expected to impact GMR allocation fill
  • Would likely increase substitution volume
  • In minimum case 133 KAF forecasted for fill with approximately 40 KAF allocated for power
Green Mountain Reservoir 2022 Forecasted Operations
Most Probable with 12 KAF HUP April Release

- Most Probable
- April Hole Operation
- Full Reservoir
- Heeney Operating Restriction
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