2001 Summer Operations Outlook

Considerations for Summer Spill

* What is the Council's view of the region's reliability situation relative to the Federal Agencies' Operations Plan criteria?

* Does the Council agree that a deeper summer draft at Dworshak can provide benefits to ESA-listed stocks that are comparable or better than lower river spill, given this year's unique conditions?

* Given the biological analysis of the benefits of various spill levels to nonlisted stocks and the cost of spill under current prices, what spill action would the Council recommend?

* Given the biological analysis of the benefits of various spill levels to nonlisted stocks and the cost of spill under a \$50 market price, what spill action would the Council recommend?

June 15 Summary Analysis of the Power Emergency Criteria

CRITERIA	4/13 Analysis	6/27 Analysis
Criterion 1:		
Near-Term Insufficiency	54	48.8
(Sufficient Volume to Meet Near-term Load Obligations)		
Criterion 1:		
75% Probability Volume Forecast Standard		
June Forecast Error Buffer—RFC @ 4.0	58	N/A
Criterion 2:		
Long-Term Insufficiency	59.5 1	53.7 ²
(< 5% Loss of Load Probability)		
Adjustment for 600 MW-mo Spring Spill		0.4
TOTAL MAF to MEET CRITERIA 1 & 2		
w/ RFC Buffer (4.0 MAF)	59.5	
w/ NPPC Buffer (1.7 MAF)		55.8
w/ ESP Buffer (1.1 MAF)		55.2
June Mid-Month Forecast		55.9
Criterion 3: Insufficiency Due to Inadequate Reserves (< 20% Probability of \$0 Reserves)	Protect against drop in water supply and use to meet criteria 1 & 2	600 MW-mo of summer spill

¹1.5 MAF is used as a proxy for the 1500 MW-mo of storage needed for reliability purposes. Depending on the location and shape of the volume, the MAF requirement to provide the MW-mo could change.

² Uncertainties in the analysis:

[•]Assumes expected thermal generation based upon a forced outage rate with an estimated planned outage schedule

[•]Assumes normal temperatures

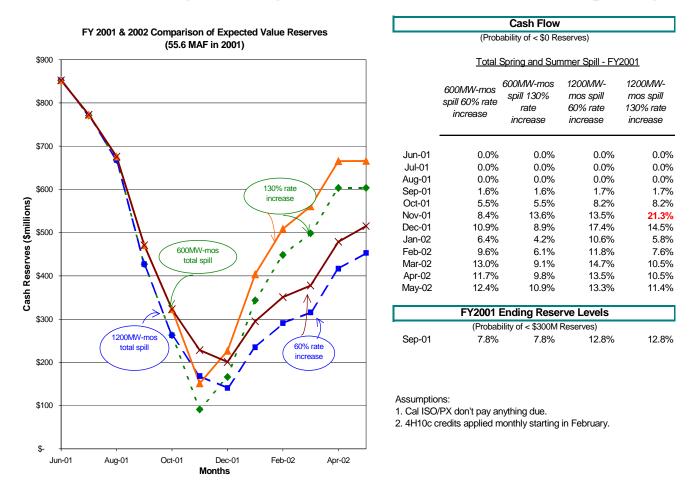
[•]Assumes modest amount of conservation

[•]Assumes significant amount of regional generation dedicated to exports to California

[•]Small variations in monthly (aMW) uncertainties can lead to large amounts of uncertainty accumulated over several months (MW-mos)

[•]Assumes all storage for next winter must be completed by Oct 1

June 15 Summary Analysis of the Power Emergency Criteria



•Observations:

- 600 MW-mo of spill, no additional spill beyond today, leaves BPA well within the financial criteria.
- 1200 MW-mo of spill, an additional 600 MW-mo beyond the already complete 600 MW-mo, is on the boundary of not meeting the financial criteria.
- Changes in water supply, loads, market prices, and thermal plant generation could change the results of this analysis.

June 27, 2001

Estimated Costs of Summer Spill

Assuming Market Prices a Month Ago (\$300)

- * 200 mw-mos = \$45 million
- * 400 mw-mos = \$90 million
- * 600 mw-mos = \$135 million

Assuming Current Market Prices (\$75)

- * 200 mw-mos = \$11 million
- * 400 mw-mos = \$22 million
- * 600 mw-mos = \$33 million

Assuming Further Reduced Market Prices (\$50)

- * 200 mw-mos = \$7.5 million
- * 400 mw-mos = \$15 million
- * 600 mw-mos = \$22 million

Summary of Potential Alternative Actions

Potential Actions with immediate benefits for listed summer migrants

- * Dworshak draft below 1520 feet
- * Increase Northern Pikeminnow Bounty

Potential Actions with immediate benefits primarily for other summer migrants

- * Columbia storage drafts
- * Increase Northern Pikeminnow Bounty

Potential Actions that would benefit listed summer migrants in the long-term

- * Non-native predator control through operations and/or incentives
- * Modify current Dworshak hatchery water supply

Potential Actions that would benefit other summer migrants in the long-term

* Access storage at Owyhee Reservoir

Next Steps

- * <u>June 27:</u> Northwest Power Planning Council recommendation on summer spill for non-listed fish.
- * June 29: Federal, State and Tribal Regional Executives meet to discuss summer spill for listed fish.

June 27, 2001