



Roadmap from the Feb 28 Framework Document to the April 14 Draft Slice/Block Contract

Chronology of Events Since we Met Feb 28

- Last customer meeting to review the Framework was Feb 28
- BPA received comments on the Framework from Terry Mundorf on March 5
- BPA Incorporated those comments into the Framework, then incorporated the Framework into various sections of the Draft Slice/Block Template
 - Mostly into Exhibit M
- BPA iterated through several internal reviews to develop the April 14 Draft contract

Changes relative to the Feb 28 Framework Document

- Incorporated the introductory paragraphs to sections 3(b)(2) and 3(b)(3)
- Changed terminology - SWRM to Simulator
- Introduced the Slice Computer Application concept with the Simulator and BOSS modules
- Included Augmentation energy in the BOSS
- New approach to BOSS flex determination and use
- Removed Discretionary Generation, Discretionary Storage
 - Per internal discussions
- 2 additional PS Input Parameters
 - Algorithm tuning parameters – factors or coefficients within formulas that are adjusted as needed to bring the Simulator results in line with actual flexibility
 - Logic control parameters – flags or toggles, such as CGS displacement election yes or no
- Changed terminology - Schedule Request to Simulated Output Energy Schedules
- Inserted a “Reports” section
 - New concept of remote request that shows changes to Input Parameters
- Simulator updates, upgrades language modified to reflect revised SIG language
- Simulator accuracy checks done quarterly
- Introduced Calibrated Simulator Discharge concept
 - Same math as before, but having this term and step makes SOA accounting clearer (we hope)
- Removed Coulee inflow adjustment from Discretionary Storage (since DS was removed)
- Inserted new section – Calc of Calibrated Simulator Discharge
- Inserted new section – Calc of Hydraulic Link Adjustment
- Coulee PSB exceedences
 - Removed formula, per Steve L and Terry M March 5 edits
- Removed Storage Transfers and their application to the Coulee PSB exceedences
 - Per internal discussions
- Communications
 - Added customer is responsible for their internal dissemination of data

- Removed communication of significant changes, thinking the remote report would cover it
- Combined 90-day and 12-month timing, meetings and reports into their own sections (14 and 15)
 - Clarified which project data would be reported to customers
- Moved CGS displacement to section 3(b)(10)
 - Customers “shall” indicate whether or not to participate
 - Displacements redefined as any reduction, even to zero
- Scheduling mechanics – moved to Exhibit F
- Moved RSO test to Body – 3(b)(7)
 - BPA is considering appropriate penalty assessment
 - 3 options listed
 - Supporting data must accompany a penalty waiver request
- Validations and Penalties moved to section 11 or Exhibit F
 - Tagging to Ex F.
- New Definitions (Pertaining to Operations)
 - Absolute Operating Constraint
 - Actual Bypass Spill
 - Actual H/K
 - BOSS Module (Section 2)
 - Calibrated Simulator Discharge
 - H/K
 - Hard Operating Constraint
 - Input Parameters
 - Input Variables
 - Megawatt-Days
 - Obligations to Balancing Authority (Section 2)
 - Projects
 - Required Fish Spill
 - Slice Computer Application (Section 2)
 - Soft Operating Constraint
- Deleted Definitions
 - Dispatchable Projects
 - Discretionary Generation
 - Discretionary Storage
 - Forced Outage
 - Immediate Spill Deliveries
 - Non-dispatchable Projects
 - Non-spinning Reserves
 - Remedial Action Scheme
 - Regulation
 - Shut-Down
 - Slice System Critical Period H/K
 - Spinning Reserves
 - Storage Energy
 - TOP Heavy Load Hours

- TOP Light Load Hours
- Weekly Constraint
- Definitions moved to section 2
 - Actual Energy Slice Output
 - Balance of Slice System Complex
 - Business Day
 - Coulee-Chief Complex
 - Delivery Limits
 - Lower Columbia Complex
 - Operational Constraints
 - Prudent operating Constraints
 - Slice Water Routing Simulator
- Moved to CGS Section
 - Additional Energy (repeat in Ex M?)
 - Displacement
 - Generation Benchmark
 - Incremental Costs
 - Operating Plan

Slice Implementation Group

- Changed Terminology - Slice Agreement Group to Slice Implementation Group
- Revised SIG language
 - BPA rights to change the Slice Computer Application
 - BPA feels strongly that if the SCA needs to change, as described, BPA needs to be able to change it without consent from the Slice customers.

Peak Net Requirement

- See section 1(c) of Exhibit A
 - Outlines process to establish Peak Net Requirement limitation