

Option Submittal Form

Contact Information (optional):

Keep my contact information private

Contact Name: _____	Title: _____
Affiliation: _____	
Address: _____	
Telephone: _____	E-mail Address: _____

Date Option Submitted: Jan. 30, 2012

Option Name:

ICS in the Upper Basin

Description of Option:

Similar to the ICS concept in the Lower Basin, allow intentionally conserved water to be banked in the Upper Basin CRSP reservoirs for use during drought conditions or during a curtailment call on the Colorado River.

Location: Describe location(s) where option could be implemented and other areas that the option would affect, if applicable. Attach a map, if applicable.

Upper Colorado River Basin

Quantity and Timing: Roughly quantify the range of the potential amount of water that the option could provide over the next 50 years and in what timeframe that amount could be available. If option could be implemented in phases, include quantity estimates associated with each phase. If known, specify any important seasonal (e.g., more water could be available in winter) and/or frequency (e.g., more water could likely be available during above-average hydrologic years) considerations. If known, describe any key assumptions made in order to quantify the potential amount.

Process could be phased at individual Upper Basin Reservoirs. Limits of quantities could be set incrementally over time with chance for experience. Reservoir studies could be accomplished to determine any physical limits needed to avoid interference with existing rights, etc. Limits in amount of intentionally conserved water might be set by funding available to conserve. Private, State, and Federal funding could be considered.

Additional Information

Technical Feasibility: Describe the maturity and feasibility of the concept/technology being proposed, and what research and/or technological development might first be needed.

Should be as technically feasible as the Lower Basin Program

Costs: Provide cost and funding information, if available, including capital, operations, maintenance, repair, replacement, and any other costs and sources of funds (e.g., public, private, or both public and private). Identify what is and is not included in the provided cost numbers and provide references used for cost justification. Methodologies for calculating unit costs (e.g., \$/acre-foot or \$/million gallons) vary widely; therefore, do not provide unit costs without also providing the assumed capital and annual costs for the option, and the methodology used to calculate unit costs.

Cost to conserve Upper Basin water may be less than conservation in Lower Basin

Permitting: List the permits and/or approvals required and status of any permits and/or approvals received.

Contracts and agreements among the Federal and State entities is likely. Potential for additional NEPA and ESA compliance.

Legal / Public Policy Considerations: Describe legal/public policy considerations associated with the option. Describe any agreements necessary for implementation and any potential water rights issues, if known.

Likely a significant legal and policy question like the Lower Basin program.

Implementation Risk / Uncertainty: Describe any aspects of the option that involves risk or uncertainty related to implementing the option.

Reliability: Describe the anticipated reliability of the option and any known risks to supply or demand, such as: drought risk, water contamination risk, risk of infrastructure failure, etc.

Water Quality: Identify key water quality implications (salinity and other constituents) associated with the option in all of the locations the option may affect.

--

Energy Needs: Describe, and quantify if known, the energy needs associated with the option. Include any energy required to obtain, treat, and deliver the water to the defined location at the defined quality.

Energy Required	Source(s) of Energy

Hydroelectric Energy Generation: Describe, and quantify if known, any anticipated increases or decreases in hydroelectric energy generation as a result of the option.

Location of Generation	Impact to Generation

Recreation: Describe any anticipated positive or negative effects on recreation.

Locations	Anticipate Benefits or Impacts

Environment: Describe any anticipated positive or negative effects on ecosystems within or outside of the Colorado River Basin.

Locations	Anticipated Benefits or Impacts

Socioeconomics: Describe anticipated positive or negative socioeconomic (social and economic factors) effects.

--

Other Information: Provide other information as appropriate, including potential secondary benefits or considerations. Attach supporting documentation or references, if applicable.

Unlike the Lower Basin where the Secretary is the Water Master, who would operate the new banking concept is likely a significant issue.
--