

Water Storage Investment Program Concept Paper Form

Please complete the questions below and return your completed concept paper by email to cwc@water.ca.gov by 5:00 p.m. on March 31, 2016. Completed concept papers should not exceed four pages.

Contact Information

Contact Name: Joseph Rizzi
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Agency/Organization Name: Natural Desalination
Agency Type (select one): <input type="checkbox"/> Public Agency <input checked="" type="checkbox"/> Nonprofit Organization <input type="checkbox"/> Public Utility <input type="checkbox"/> Tribe <input type="checkbox"/> Mutual Water Company <input type="checkbox"/> Local Joint Powers Authority <input type="checkbox"/> Other:

Project Information

Project Name: <i>Connect Folsom South Canal to SWP</i>												
Project Type: <input checked="" type="checkbox"/> CALFED Surface Storage <input type="checkbox"/> Groundwater Storage <input type="checkbox"/> Groundwater Contamination Prevention or Remediation <input checked="" type="checkbox"/> Conjunctive Use <input type="checkbox"/> Reservoir Reoperation <input checked="" type="checkbox"/> Local Surface Storage <input checked="" type="checkbox"/> Regional Surface Storage <input checked="" type="checkbox"/> Other: <i>Add 1 Million Acre Feet of Fresh Water for SWP Export.</i>												
Estimated Project Cost: 500 Million												
Estimated WSIP Funding Request: 500 Million												
Please describe your project, including location, water source, facilities, and operations: <p>Connect the Folsom South Canal via 20 foot diameter pipeline down the 100 foot drop in elevation to the State Water Project (SWP) intake pumps. This adds overflow water directly to SWP instead of letting the water go out to sea. In 2016 we can expect extra water from Feb to July.</p> <table border="1" data-bbox="203 1386 1409 1507"> <thead> <tr> <th>Pipe Dia.</th> <th>Length</th> <th>Drop</th> <th>Gravity Flow Rate</th> <th>Gallons Per Day (GPD)</th> <th>Acre-Ft Per Day</th> </tr> </thead> <tbody> <tr> <td>20 Feet</td> <td>40 miles</td> <td>100 feet</td> <td>1,148,660 Gal / Min</td> <td>1,654,070,400</td> <td>5,075</td> </tr> </tbody> </table>	Pipe Dia.	Length	Drop	Gravity Flow Rate	Gallons Per Day (GPD)	Acre-Ft Per Day	20 Feet	40 miles	100 feet	1,148,660 Gal / Min	1,654,070,400	5,075
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Per Water Code section 79753, the Commission may only fund the public benefits of water storage projects. Further, ecosystem improvements must make up 50% of the funded public benefits (Water Code section 79756(b)). What public benefits does your project provide? (select all that apply):

- Ecosystem Improvements Water Quality Improvements Flood Control
 Emergency Response Recreation

Please describe the magnitude of the public benefits and how the project will be operated to provide the public benefits: The more water that can come from excess water from Folsom South Canal the less water that is needed from the Delta, which would improve the Delta. Since this is excess water in winter run off, it will not hurt the Delta flows. The water quality from the Folsom south canal will be better than getting the water from the Delta.

Water Code section 79752 requires that funded projects provide measurable improvements to the Delta ecosystem or to the tributaries of the Delta. Please describe how your project provides ecosystem improvements in the Delta or tributaries to the Delta: Taking less water out of the Delta would mean less death of aquatic life from pumps. Direct connect of pipeline from Folsom South canal to SWP pumps would insure no loss of Delta life.

Water Code sections 79755 and 79757 require the Commission to make a finding that a project will advance the long-term objectives of restoring ecological health and improving water management for beneficial uses in the Delta prior to allocating funding for a project. Please describe how your project could help advance the long-term objectives of restoring ecological health and improving water management for beneficial uses in the Delta: Delta flows can be enhanced by diverting water from Folsom to Tracy area when added flows are needed for aquatic life and help the direction of flows in the Delta.

Please describe any other benefits provided by your project, such as water supply reliability benefits, and the potential beneficiaries: This can add 1 Million Acre Feet (MAF) of Fresh Water available for Export. Governor in 2015 was asking for 1.5 MAF or 25% reduction.