South Coast Conduit Blow-off Riser Pipe Replacement (2013-1-42)

Project Ranking
97%

Total Estimated Cost: $1,000,000

Background

Blow-off structures exist on all low points of a water distribution system. The components included in these structures include man-hole covers, lower riser sections, an upper spool section, a gate valve, and blow-off piping. There are a total of sixty-five blow-off structures in South Coast Conduit system.

Need for Project

The existing blow-off components are of questionable operability because of corrosion. The dependability of these components is necessary to allow the system to be dewatered for maintenance and respond to an emergency break in the pipe. There are twenty-eight manhole covers identified for replacement. Sixty-five lower risers have been identified to be of questionable integrity because of corrosion. Twenty-eight gate valves and upper spools will need to be replaced due to age and fragility. Blow-off piping will be replaced on an as needed basis.

Description

The project consists of replacing the man hole covers, lower risers, gate valves, upper spools, and discharge piping within the Upper and Lower Reaches of the SCC. The project would be completed in conjunction with the AVAR valve replacement and relocation project and coordinated with the affected Member Units during the required system shutdown. Water released during the implementation of this project would require de-chlorination. The project would require retention of engineering and contractor services.

Regulatory Compliance

This is a USBR Category 1 recommendation.

Budget & Schedule — Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I – Engineering)	$ 130,000
2016-17 (Phase II – Construction)	$ 70,000
2017-18 (Phase II – Construction)	$ 125,000
2018-19 (Phase II – Construction)	$ 225,000
2019-20 (Phase II – Construction)	$ 225,000
2020-21 (Phase II – Construction)	$ 225,000
Total	**$ 1,000,000**