

South Coast Conduit Air Vacuum Air Release (AVAR) Valve Replacement / Relocation (2012-1-26)

Project Ranking

97%

Total Estimated Cost: \$150,000



Background

Air vacuum air release valves (AVAR) are float operated valves which are common to water delivery systems. The AVAR's function to allow volumes of air to be exhausted from or admitted into the pipeline to protect the system from a loss of capacity and prevent the pipe from collapsing in the event of a break in the pipe. There are twenty-six AVARs on the Lower Reach of the SCC. Of these, twenty have been rehabilitated; the remaining six will be completed by an outside contractor over the next two fiscal years. Replacement of the AVARs is a USBR Category 1 recommendation.

Need for Project

Six remaining AVAR valves pose an operational risk and/or do not meet current required regulatory standards. Because of the location and operational configuration of the remaining six AVARs, this project would be completed by a retained contractor and require preliminary engineering.

Description

Replace and relocate to above ground sites six (6) AVARs in the Lower Reach. Consistent with other AVAR replacements, manhole covers, gate valves, risers, laterals and AVAR valves would be replaced at the same time. Each AVAR valve would be relocated and enclosed above grade. The project would require coordination with impacted MUs during the required shutdown of the SCC. The project would require retention of engineering and contractor services.

Regulatory Compliance

This is USBR Category 1 recommendation.

Budget & Schedule

Internal Staff Estimate

Fiscal Year	Cost
2015-16 (Phase I – Engineering)	\$ 50,000
2016-17 (Phase II – Construction)	\$100,000
2017-18 (Phase II – Construction)	\$ 0
Total	\$150,000