North Portal Jet Flow Control Valve Replacement (2013-C-1)

Project Ranking
90%

Total Estimated Cost: $300,000

Background

Located at the base of the Tecolote Tunnel, the Jet Flow Control Valve is the primary control for flow of water from Lake Cachuma into the South Coast Conduit. The valve is located within the red piping component as pictured above. It is operated through the SCADA system. The adjacent gate valve (black) can manually be used as an alternate method to control flow through the tunnel. The Jet Flow Control valve was replaced in 1990 and has a useful life of approximately thirty years. Internal replacement components of the valve were approved in the FY 2014-15 budget and have been purchased.

Need for Project

Due to the uncertainty of useful life, COMB will purchase a complete new valve. The new replacement valve would be installed during a planned shutdown and the current valve would be rebuilt with new components and kept on site to be used as a redundant valve in case of failure.

Description

This project consists of designs and specs to manufacture a new valve body which would be rebuilt using previously purchased internal components. Once the valve was ready for installation, a shutdown using the manual gate valve would occur. The current valve would be removed from service and the new valve would be lowered by crane into the lower gallery of the North Portal through the elevator shaft for installation.

Regulatory Compliance

N/A

Budget & Schedule — Internal Staff Estimate

Fiscal Year	Cost
2018-19 (Design and Installation)	$300,000
Total	**$300,000**