



Customer Background

The City of Santa Ana is located in the heart of Orange County, California, and is approximately 27 square miles. The City provides potable drinking water for the City's 334,000 residents and businesses. The City's water production system consists of 22 wells, 4 pressure control stations, 7 Metropolitan Water District connections, 7 pumping stations, 8 reservoirs. The City also operates and maintains 4 sewer lift stations. Control and monitoring of the water system and sewer facilities are coordinated via the City SCADA system using a series of radios which transmit data from remote locations to the centralized City Home SCADA control room.

Project Background

After many years of traditional design-bid-build projects which utilized many different systems integrators many of which with very little expertise, the City decided they needed a list of pre-qualified systems integrators to perform all programming for their capital projects. They solicited proposals from systems integrators throughout Southern California with stringent qualification requirements including a diverse portfolio of both modern and legacy Modicon PLCs.

The selected integrators would be required to fully comply with and enforce the City's full suite of instrumentation and controls standards which were mostly developed by EA through the concurrent Change Manager contract.

EA Solutions

Enterprise Automation was selected as one of the City's preferred programmers and was thus pre-selected to provide integration services on any future City project during the contract period.

EA will apply our industry-leading processes to rigorously document and track configurations using the City's Source Control systems, maintain detailed functional specifications, and ensure every program is subjected to our rigorous four-step testing process (desk-check, internal testing, FAT, and SAT) in order to deliver World Class Startups.

Key Insights

- As-needed systems integration services
- Re-programming City sites:
 - Pumping Stations
 - Pressure Reducing Stations
 - MWD connections
 - Reservoirs
 - Sewer Lift Stations

Key Technologies:

- Modicon M340 PLCs
- Modicon Magelis OITs
- Ethernet, fiber, radio communications

Project Metrics:

- Contract Period: 2018—Present

