GRIP — GROUNDWATER RELIABILITY IMPROVEMENT PROJECT

WRD — WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA

WIN — WATER INDEPENDENCE NOW

Customer Background

The Water Replenishment District of Southern California (WRD) is the largest groundwater agency in California, managing and protecting groundwater resources for 4 million residents in the most populated county in the US. WRD owns and operates several assets including a 5MGD capacity desalter (Goldsworthy), an 8MGD advanced water treatment facility (LVL), and is in the process of constructing a second AWTF (GRIP/ARC) with expansion capacity of up to 29.6MGD.

Project Background

In 2016, WRD awarded EA a five-year professional services agreement to provide on-call SCADA integration services. WRD understood that they needed a long-term, trusted partner to manage their SCADA system.

The original scope of the contract included projects to combine separate Wonderware SCADA systems at their facilities into one centralized Wonderware Galaxy, to provide automation and SCADA consulting, and to act as an extension of staff through several ongoing capital projects. The GRIP/ARC project, in particular, was a challenging project during which EA has helped WRD's contractors remain on track and standards-compliant.

EA Solutions

EA's key impact on WRD has been to implement several systems and procedures which promote standardization, improve testing processes, and improve their design requirements. EA has managed several integrators through this process, providing technical and operations training, reviewing designs and specifications, and participating in Factory Acceptance Testing.

EA's influence has raised the bar for planning, deployments, and quality expectations.

Contract Highlights

- Provided Full System Audit of 7 facilities and dozens of PLCs
- Developed SCADA, PLC, network, and tag naming standards
- Managed two systems integrators

Key Technologies:

- Allen Bradley PLCs
- AVEVA System Platform and Intouch HMI (formerly Wonderware)
- AVEVA Historian (formerly Wonderware)
- VMWare virtualization

Project Metrics:

- Est. Contract Value: $3M
- Contract Length: 5 years