



Customer Background

The Encina Wastewater Authority (EWA) is a public agency located in Carlsbad, California. EWA provides wastewater treatment services to more than 400,000 residents in northwestern San Diego County. EWA's facilities and services are essential for protecting the local ocean environment, preserving public health, and providing recycled water resources for the region. Enterprise Automation has provided sole-sourced automation and integration services to EWA since 2017 as part of a five-year professional services agreement.

Project Background

Since the current control system was originally implemented at Encina Water Pollution Control Facility (EWPCF), the system has been maintained and upgraded by EWA staff, low-bid integrators, and miscellaneous contractors. This approach lacked standardization and documentation, leading to network and reliability issues.

In 2017 the Authority developed and released an RFP to find an automation consultant who could overhaul the entire facility and develop a platform built on industry best practices and a pervasive standardization.

EA Solutions

EA was awarded the five-year Master Services Agreement and immediately set to developing a master plan for the future of the EWPCF.

The first task was to execute a thorough plant audit to fully understand the state of the existing system. The audit was followed by a SCADA evaluation to determine which platform was best suited for the site and the Authority's operations staff. The final task before the first capital plant improvement project could begin was to develop a full suite of instrumentation and control standards.

EA is currently executing several concurrent projects to address the nearly 6,300 IO spread across seven plant areas.

Key Insights

- Contracted to architect and orchestrate a complete facility controls overhaul
- 6,300 IO over 7 plant area
- 50+ existing PLCs

Key Technologies:

- Test Platform
- Source Control
- Change Control

Project Metrics:

- EA's Services Value: \$15M (proj. total)
- Initial Contract Period: 2017-2022

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