

Water and Wastewater Treatment Plants

ArcSine Engineering

ArcSine Engineering is an electrical, mechanical, and control systems engineering firm founded in 1978. We have extensive experience in the design of treatment and pumping facilities for water and wastewater. Our design work includes power distribution, instrumentation and controls, standby power, supervisory control and data acquisition, adjustable-speed drives, lighting, and peripheral systems, process piping, and HVAC. We also perform services during construction.

ArcSine is highly skilled in planning and designing programmable systems for process monitoring and control. We utilize programmable logic controllers (PLC's), remote terminal units (RTUs), personal computers, and larger computers in the design of instrumentation control and SCADA systems. We evaluate radio communication methods and obtain FCC licenses. Our projects have included skillful integration of new controls with existing controls, with special attention to construction sequencing to maintain facility operation.

Essentials of **ArcSine's** Treatment Plant Designs:

- Knowledge of the process
- Economics
- Environment
- Regulatory Requirements

ArcSine excels in the following:

- Providing Customer Service
- Meeting Customer Expectations
- Quality Control
- Meeting Deadlines
- Cost Control

Some of our completed accomplishments are:

- San Diego, CA Wastewater Treatment Plant
- Brentwood, CA Wastewater Treatment Plant
- Reno, NV Water Treatment Facility
- Livermore, CA Water Treatment Facility
- LAVWMA Pumping Station, Dublin, CA
- Martinez Pumping Station, Martinez, CA
- Central Contra Cost Sanitation District
23 Sewage Pumping Stations, Martinez, CA
- San Francisco, CA SCADA Project
- Lower Orinda Pumping Station, Orinda, CA
- Parkland Pump Station, San Diego, CA
- Alameda County, CA Zone 7 SCADA
- Medford, OR Reuse Pilot Plant Irrigation Project



*San Diego Wastewater
Treatment Plant*

Alameda County, CA Zone 7 SCADA



*Central Contra Costa Sanitary District
SCADA System*