



CITY OF AVONDALE, AZ WATER & WASTEWATER DEPARTMENT

CITY OF AVONDALE, AZ

Quantum Integrated Solutions programmed and deployed various instruments and controls to fully automate both the water and waste water services for the City of Avondale. Quantum programmed and networked numerous Modicon PLCs at various sites throughout the City of Avondale. To ensure reliability to Avondale's failure critical systems Quantum implemented "Hot Standby" or redundant PLCs.

SCADA

As one of west coast leaders certified in Wonderware's ArchestrA platform, Quantum used ArchestrA to develop and deploy an upgrade SCADA platform for the City of Avondale. With ArchestrA, Quantum was able to give the City of Avondale's operators more control and functionally over their system, thus reducing operator visit to various sites.

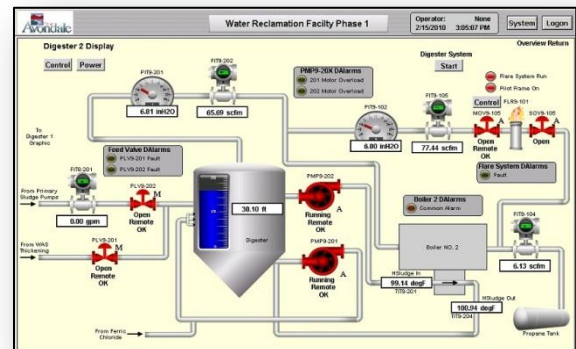
ALARM NOTIFICATIONS

Quantum configured and deployed ArchestrA's Remote Notifier platform to replace the City of Avondale's SCADAAlarm which was an unstable and unreliable alarming system. With ArchestrA's Remote Notifier, Quantum provided plant operators the capability to receive and acknowledge alarms via text messages, e-mails, or through SCADA. An escalation list was implemented in case an alarm goes unacknowledged for a set period of time. This escalation list would re-notify plant operators and their supervisors.



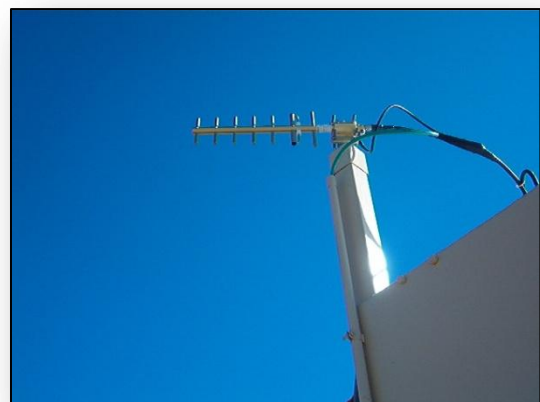
SYSTEM SUPPORT & DESIGN SERVICES

Quantum provides the City of Avondale with system support to ensure reliable of their automated water and waste water facilities. Depending on the system support required, Quantum provides onsite or Virtual Private Network (VPN) support.



RADIO COMMUNICATIONS

Quantum configured the radio communications systems for the well sites being monitored and controlled by the SCADA system. All remote well sites, booster stations and lift stations within the water and wastewater systems are monitored and controlled from the central controls facility. The Wonderware ArchestrA system communicates to the various PLC systems via the radio system which Quantum established for each individual project.





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CONTROL EQUIPMENT

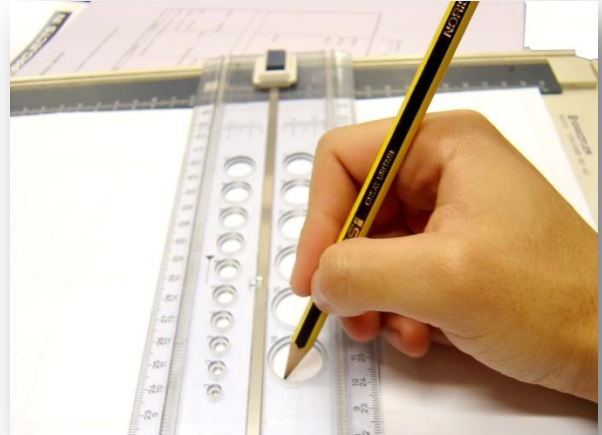
Quantum can evaluate, design, fabricate, install and configure necessary equipment for a wide range of process control designs.

- ✓ Instrumentation
- ✓ PLC Control Panels
- ✓ Motor Control

ADDITIONAL SERVICES

Quantum provides many additional industrial automation applications. Listed below are some additional engineering services provided by Quantum.

- ✓ Radio Surveys
- ✓ Industrial Energy Audits
 - Search for qualifying energy rebates
- ✓ SCADA and HMI Support
- ✓ SCADA Video Surveillance Design and Installation
- ✓ Process Control Training
- ✓ Secure internet access to project backups – 24/7
 - Design Drawings
 - Programming codes
 - Operation and maintenance manuals
- ✓ Fiber Network Design
- ✓ Computer Aided Drafting (CAD)



CERTIFICATIONS AND AFFILIATIONS



MAJOR MARKETS SERVED

Mining



Water/Wastewater



Renewable Energy



Semiconductor

