



**PROFESSIONAL ENGINEERING SERVICES**

ENERGY

WATER/WASTEWATER

SEMICONDUCTOR

MINING

RENEWABLE ENERGY

## PROFESSIONAL ENGINEERING DESIGN SERVICES

Quantum Integrated Solutions provides professional control and electrical engineering design services for our clients. Quantum has worked with public works department to develop a bid-able design and specification document for booster stations and well sites that use the latest automation control hardware, drives and instruments.

The specification that Quantum developed for our client included the following

- ✓ Electrical Power Distribution
- ✓ Control Panel Hardware
- ✓ Variable Frequency Drives (VFD)
- ✓ Instrumentation
- ✓ Sequence of Operations (SOO)
- ✓ Radio Hardware and Mounting Design
- ✓ Local Area Light
- ✓ P&ID and Electrical Drawings



In addition to providing specification sections, Quantum also provides submittal review services to review hardware, components and instrumentation.

## ADDITIONAL DESIGN SERVICES

Quantum provides a variety of other engineering design services for industrial automation centered around PLC/PAC control systems. These services include

- ✓ Consulting
- ✓ Electrical Design
- ✓ System Architecture
- ✓ Process Design
- ✓ P&ID Design
- ✓ Instrument and Equipment Specifications
- ✓ Control Panel Design
- ✓ Arc Flash Assessments
- ✓ Custom Control Interfaces
- ✓ Data Historian Services
- ✓ Technical and Maintenance Assistance
- ✓ Integration of Rockwell, GE, Modicon and Siemens PLCs
- ✓ Integration of operator interface terminals
- ✓ Integration of Radio's and RTU's
- ✓ Integration of wireless, SCADA and pump controls
- ✓ Intrusion, Security Systems
- ✓ Factory testing



## CERTIFICATIONS AND AFFILIATIONS



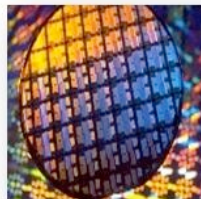
### Mining



### Water/Wastewater



### Semiconductor



### Energy Automation

