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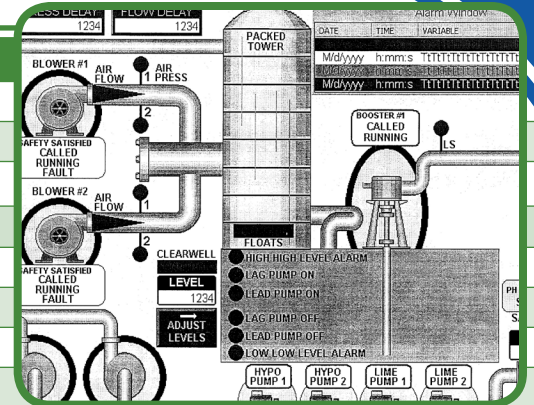
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# Supervisory Control and Data Acquisition (SCADA) System

## SERVICES INCLUDE:

- Enhanced Operations and Automation*
- Radio, Internet, Cellular and Fiber Optic Communications*
- System Architecture and Redundancy*
- PLC Hardware and Programming*
- Remote Terminal Units and I/O*
- Data Acquisition and Recordkeeping*
- Integration with Control and Instrumentation*
- Start-Up and Commissioning*



Efficient management of a facility and remote sites is critical to operations and monitoring and Supervisory Control and Data Acquisition (SCADA) systems meet these needs by providing enhanced operations capabilities.

D&B Engineers and Architects, P.C. (D&B) has extensive experience in the design and construction management of SCADA systems and our electrical, instrumentation and process engineers have designed systems ranging from small municipal water suppliers to wastewater treatment plants with remote pumping stations.

D&B understands that each SCADA system is unique and works closely with clients to tailor systems to their needs and budget. Each of the following is addressed in the design phase:

- Communications - Fiber optic, cellular, spread spectrum radio, fixed frequency radio, and Internet. Radio path studies, including field testing, are undertaken to confirm reliable radio communication, radio hardware, and antenna mounting heights during design
- Hardware and Software Selection - Programmable Logic Controllers (PLCs) for Remote Terminal Units (RTUs); Human Machine Interfaces (HMIs); software and graphical screens; control hierarchy; and password protection
- Redundancy to ensure a reliable system

- Security and encryption
- Integration with control and instrumentation devices; electrical distribution power system monitoring; video surveillance and security systems

A full-featured SCADA system can also provide:

- Remote access through smart phones and tablets
- Remote alarm notification via text message or email
- Record historical data
- Generate reports

Construction management services provided for the implementation of SCADA systems includes:

- Review of shop drawing submittals
- Construction inspection
- Startup and Commissioning to ensure systems are fully functional and conform to contract requirements

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