



SCADA Solutions

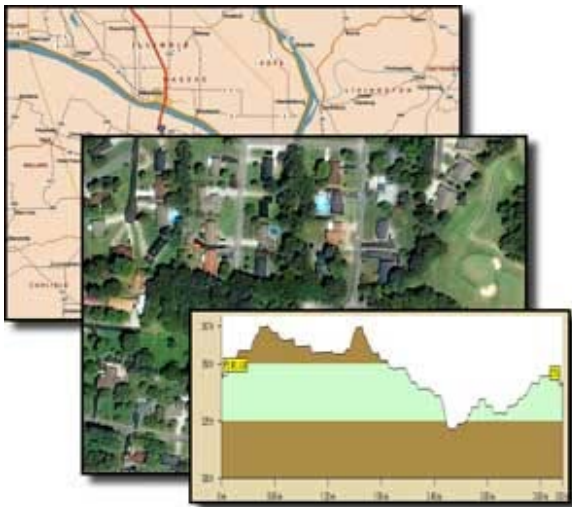
Since 1981, DFS has provided hundreds of SCADA (Supervisory Control and Data Acquisition) Systems and thousands of RTUs to our customers throughout the United States. These systems range from small water control utilities and districts to large county-wide wastewater collection systems. DFS also has extensive experience as a supplier of process automation connected to SCADA. Projects we've provided include large pumping stations with complex algorithms to complete treatment plant process control systems. Regardless of the size of your utility or the complexity of the application, we have your solution.

DFS offers systems engineering services to ensure the most cost-effective, highly operational SCADA and process automation solutions for your application. Working closely with customers and their consulting engineers, we are involved in all aspects of the design and implementation of modern process automation and instrumentation projects. DFS provides PLC programming, customized graphical HMI screens, installation, commissioning, and start-up services, including training of operator personnel and technicians.

Radio Path Studies

DFS performs all Radio Path Studies to establish reliable radio communications for our SCADA applications. We have designed thousands of successful radio links throughout the United States. Our services are utilized to determine the ideal radio frequency, optimum antenna height, gain, pattern, and azimuth required at each site. We conservatively design radio links with a minimum 20 db fade margin so that communications continue even after losing 97% of potential signal strength.

DFS is extremely meticulous when it comes to radio link design. This most critical area is commonly overlooked by suppliers and integrators. DFS provides solutions that you can trust. When a system is installed per our design, we guarantee its reliable performance or we'll correct it at our expense.



RTU Panel Design and Fabrication

DFS provides complete assembled, wired, and tested RTU (Remote Terminal Unit) panels in our certified UL panel shop. We design and build both off-the-shelf and custom RTU panels to the highest standards of customer expectations. RTU panels can be certified and UL labeled. All wiring is in accordance with the latest N.E.C. codes and conventional standards. Every panel built must pass a rigid performance acceptance test before leaving the factory. All wired inputs and outputs are thoroughly checked and documented. Our approach ensures proper operation upon delivery to the site.



Process Automation Design

Based on the specification requirements of your project, we will design PLC ladder logic programs – often using PID closed-loop control – that enact the desired control strategy. Automatic, semi-automatic, and manual operation modes are typically created.

DFS is experienced with the design and customization of efficient panel HMIs that are easy to understand and use. This creative process draws upon our years of experience in the water and wastewater industry and our complete familiarity with the processes and tools involved.

Installation Services

DFS has a fleet of fully-equipped vans and experienced teams of dedicated, professional, installation crews ready to quickly and efficiently install your system. We use a standardized installation plan, installing each RTU in an organized series of steps. We can take care of it all – tower, antenna, enclosure mounting, conduit, wiring, and start-up. Project coordinators manage each project from start to finish. Efficiency is the hallmark of a properly running process, and DFS takes great pride in the work of our installation crews.



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