

PROJECT SPOTLIGHT

Expanse Modernizes Hospital's Water Treatment Plant Control System

Need

A Veterans Affairs (VA) Hospital's water system control infrastructure needed to upgrade to a modern control system. The project represented a sophisticated overhaul of the control system including instrumentation, telemetry and systemic management. Modernizing this system was necessary to provide enhanced efficiency and reliability.

Challenge

The VA emphasized the importance of a limited downtime. Recognizing the critical nature of VA operations, Expanse minimized downtime to 10% of allotted downtime.

Scope of Work

- **Water Clarifier:** Upgraded control systems for optimal performance and efficiency
- **Remote Pumping Stations:** Implemented modern PLC technology and radio communication to streamline operations
- **Water Treatment Plant (Indoor):** Enhanced control systems for precise monitoring and management with trending and advanced diagnostics

Outcome

Expanse delivered by efficiently managing the transition without disrupting essential services – with less than eight hours of downtime experienced. The project exemplifies the Expanse team's commitment to innovation and excellence.

- **Enhanced Reliability:** The modernized PLC systems ensure greater reliability, reducing the risk of operational disruptions.
- **Improved Efficiency:** Upgraded control technology leads to streamlined processes and enhanced efficiency throughout the water treatment facilities.
- **Compliance:** The project aligns with industry standards and regulatory requirements, ensuring compliance with safety and performance guidelines.



Location

South Dakota

Expanse Services

Integrated Automation Solutions

*Modernization overhaul
of water control facility
achieved within less than
10% of allotted downtime*