

Camp Lejeune—Jacksonville, NC.

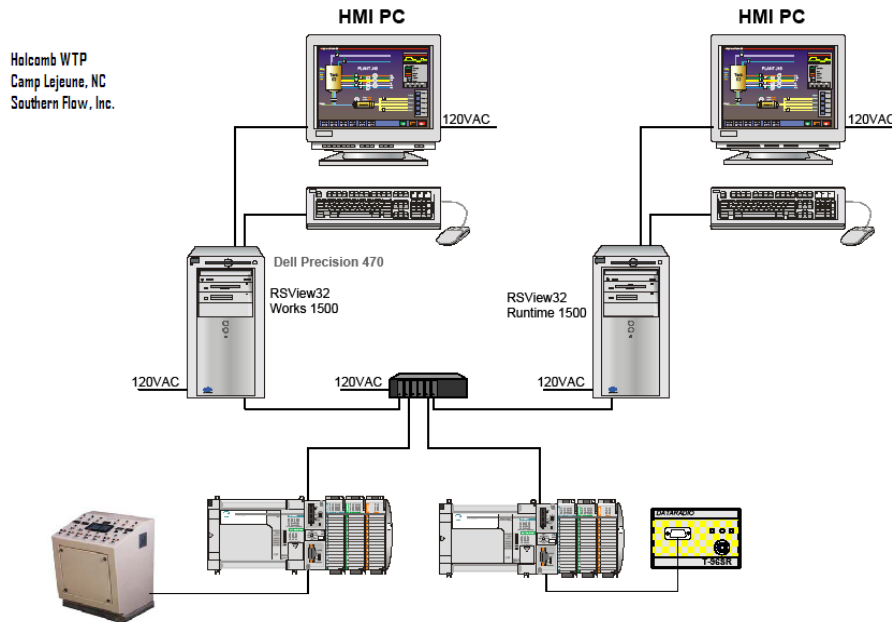
SUPERVISORY CONTROL AND DATA ACQUISITION Southern Flow, Inc. was given a \$1.7 million contract by R&W Construction of Jacksonville, NC to provide a design/build(SCADA) supervisory control and data acquisition system replacement for the USMC MCB Camp Lejeune.

The system furnished is a state-of-the-art multi-million dollar control system designed to monitor and control the base's water and wastewater treatment facilities. The entire system consists of (5) computer systems, and (179) programmable logic controllers. The water treatment SCADA system (HMI) human machine interface includes two (2) redundant Rockwell RSVIEW server workstations. The HMI graphics were developed to represent the plant and its processes in high quality animated 3D graphics. The plant main control panel contains an Allen-Bradley SLC 5/05 programmable logic controller. The main control panel serves as a central point for in-plant monitoring and control, as well as the radio polling master for (20) well sites, (5) booster pump stations, and (16) elevated storage tanks. The remote panels consist of Allen-Bradley Micrologix programmable logic controllers. The wastewater SCADA system human machine interface (HMI) included two (2) redundant Rockwell RSVIEW servers, and one (1) Rockwell RSVIEW view node. The control network consisted of a high speed fiber-optic back bone connecting ten (10) remote large capacity sewage pump stations containing Allen-Bradley ControlLogix programmable logic controllers. Each of the ten (10) large capacity pump stations serves as an individual radio polling master. The large capacity pump stations communicate with a total of (127) subordinate smaller capacity sewage pump stations, each containing Allen-Bradley Compact Logix programmable logic controllers. To date there have been 27 contracts with approximately 370 RTU's issued to Southern Flow for System Upgrade.

Project: USMC MCB Lejeune SCADA (Size to date: \$4.5 Million dollars)

Owner: Danny Hill—Camp Lejeune Utilities Director (910) 451-7190

Contractor: Wayne Pierce—R&W Construction, Inc. (910) 455-1830



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