

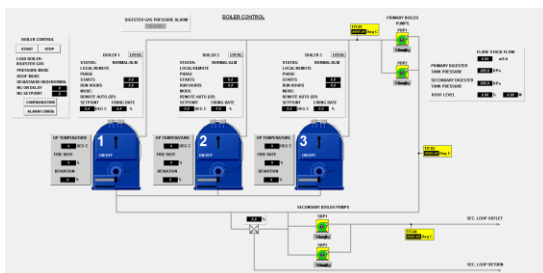
Town of Carleton Place – OCWA: Carleton Place SCADA / PLC Upgrade

Summa’s expertise in upgrading SCADA systems, situational awareness graphics and our understanding of municipal wastewater systems in addition to our expertise in design, networks, programming, installation, documentation, and commissioning operating facilities allowed for the successful completion of this project

Background

The Corporation of the Town of Carleton Place Water Pollution Control Facility is operated by the Ontario Clean Water Agency (OCWA). The facility SCADA system controls and monitors process areas throughout the facility with PLC control panels for the Master, Sludge Pump, Flow Dosing, Digester, Dewatering, and Centrifuge areas. All panels have UPS to maintain monitoring and data collection during power outages. The SCADA network is a mix of fiber and copper.

SCADA assets required to be upgrade include obsolete or end of service life PLCs, SCADA hardware and UPS, and HMI software. The existing network requires an upgrade to ring topology. Control panels require workstation upgrades to allow HMI access. For data, programs, and applications back up, a NAS needs to be added to the system. The implementation has to minimize interruptions to the plant operation and data collection.



Scope of Work - Control System

Summa, as the general contractor, was responsible for the upgrade of the plant SCADA system to the latest Wonderware InTouch, Historian and new report generator. Scope of supply included computers, platform and applications (monitor, managed switch, UPS, printer, NAS). Summa created a new SCADA configuration to match the requirements of the plant using industry-proven standards, created new reports, implemented situational awareness screens, developed new PLC programming for process area panels with new Rockwell CompactLogix, hardware and provided trouble-free transition with minimal downtime.

The benefits and results: modernized client’s SCADA system to current technology and best industry practices; improved & enhanced operator visualization of the plant to increase efficiency & accuracy. Removed operations risks associated with obsolete hardware / software previously used in the plant.

AVEVA software products:
upgrade Wonderware InTouch Development Studio; upgrade Wonderware Historian 2017 standard, 500 tag and Client 2017; add new Wonderware Historian Client 2017