

Major Automotive Manufacturer Improves Energy Management

A new facility monitoring system (FMS) enables control of major plant systems, including chiller, compressor, and boiler staging and sequencing; lighting control; HVAC optimization; and scheduling.



Main Objective

The manufacturer needed a solution for continuous monitoring and control of its compressed air, chilled water, cooling water, hot water, tank farm, wastewater treatment, electrical distribution, lighting, air handling, fire protection and power monitoring systems.

Customer Results

MAVERICK handled the design, installation, testing, configuration and startup of various systems required for complete facility monitoring.

Application Description

- MAVERICK installed and tested the copper and fiber backbone plant networks.
- MAVERICK designed, fabricated and installed the PLC cabinets.
- MAVERICK designed, specified and installed the instruments and control valves in the utility systems. The team also configured these systems and handled the startup.
- The FMS contains 36 Allen-Bradley ControlLogix PLCs and 57 Allen-Bradley SLC PLCs. The FMS network interfaces to the various vendor-supplied equipment units using Modbus, DeviceNet, Lon Works OPC, BACnet OPC and PowerNet OPC.
- The SCADA system is an Intellution iFix system consisting of multiple primary and backup SCADA servers with more than 20,000 hard and soft I/O with Intellution's iHistorian used for historical data storage and retrieval.
- The FMS provides energy management of major plant systems, as well as alarming, trending and utility usage reporting. The FMS was designed to allow overall control, monitoring and the ability to program in the central control room while allowing each system to operate independently if network operation is lost.

The MAVERICK Difference

MAVERICK Technologies completed multiple projects as part of this FMS installation. The customer was so pleased with the speed, accuracy and achievement of project goals that it has asked MAVERICK to come back and perform additional work for the manufacturer.

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