

# Industrial Power Plant Owner in Need of Process Control Programming — ASAP

An owner of a new power plant uncovered problems with their control system programming. Three months from startup, they required immediate assistance to resolve programming and control issues in order to meet operational requirements.

## Main Objective

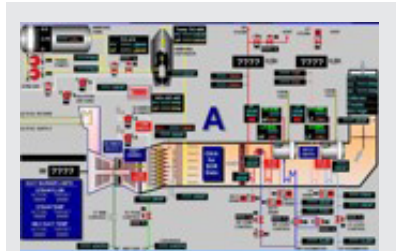
The client needed a quick resolution after programming issues were uncovered in a control system involving two gas-fired turbine generators that were set up to offset high electricity costs in a preexisting industrial facility. To get the project back on track and meet business goals, a comprehensive plan had to be swiftly and efficiently implemented.

## Customer Results

MAVERICK completed the controls programming ahead of the client's schedule, and startup proceeded immediately after mechanical completion, without any delays. MAVERICK also provided additional enhancements to help facilitate the operability of the plant, including an automated generator control (AGC) scheme that optimized secondary firing levels based on the quality of fuel gas used. Overall efficiency was increased significantly over the client's expectations through MAVERICK's proactive communications.

## Application Description

- The controls for the balance of plant systems were set up, including electrical monitoring and control, cooling towers, gas compressors, a water treatment system, HRSG boiler controls and communication to several additional prepackaged control systems, including two gas-fired turbine generators, two duct burners BMS systems and one turbine governor system.
- The control system was also interfaced with the client's existing control system for an industrial facility at a co-located site, communication with the customer's company-wide SCADA package for performance monitoring of the customer's other generation assets and VPN access to allow for monitoring and maintenance of the control system via the Internet.



HRSG Screen



Main Operator Screen



Electrical Overview Screen