



South Carolina Electric & Gas

In response to South Carolina Electric & Gas request for a proposal that supplies a standardized control system solution for their fleet of combustion gas turbine engines, HPI was pleased to meet their needs.

The SCE&G Company is proud to deliver energy in the most reliable, efficient, and environment friendly ways. SCE&G is the principle subsidiary of the SCANA Corporation, and serves close to 300,000 natural gas customers and generates electricity for 600,000 retail and wholesale customers throughout South Carolina.

HPI has an extensive knowledge of the requirements for controlling a variety of Gas Turbines, and is honored to supply a standardized control system solution for SCE&G's corporate fleet of combustion gas turbine engines. Because of their experience, HPI is able to provide a well-proven and tested control software and hardware. Thus reducing both the initial design phase and ensuring easy commissioning of the completed system.

The existing control system was completely removed and replaced with a new controller for the Turbine Control system. The controller sets for the new Turbine Control Systems are based on HPI's Allen Bradley ControlLogix PLC. This PLC contains the software for the Gas Turbine controls such as Remote start, stop and auxiliary system sequencing. To reduce the amount of on site wiring required all the terminals, fuses, relays and conduits are supplied mounted on sub-panels.



The benefits of having a HPI based digital turbine control system are:

- Designed for easy retrofit onto existing turbine units.
- Systems replace the existing control system.
- High performance from modern technology.
- User friendly HMI's with enhanced turbine control and diagnostics information.

This provides consistent, repeatable and reliable starting and running, as required for the remote control of an unmanned site consisting of four Frame 5 peaking units.



As technological leaders in the supply of turbo-generator services, for both the OEM and retrofit markets, HPI use professional project teams with extensive experience in design of hardware and software, manufacture, testing, installation, commissioning and supporting of turbine systems. Former key VT Controls and HSDE staff with over 150 cumulative years experience in the industry make up the HPI engineering, project, organization and management teams; they have been proven through many years of providing turbine retrofits and are formed of highly qualified personnel who fully understand the demands of this specialized industry.