



Chugach Electric Beluga Power Plant

Chugach Electric Association selects the lowest responsible bidder for its requirements from among the broadest range of suppliers qualified by expertise and resources. Because of this fact, Chugach has chosen HPI to retrofit Two GE Frame 5 Gas Turbines with a HPI based Gas Turbine Control System at their Beluga Power Plant.

The HPI based control system will be designed to have a similar look and feel to the controls already installed on the Frame 7 Gas Turbines which are also installed at the Beluga Power Plant.



HPI's controls offer a technically & commercially compliant solution in line with Chugach Electric's Request for Proposal (RFP No. 06-09). The HPI solution makes extensive re-use of our Allen Bradley ControlLogix based control system, and as such, dramatically reduces the engineering and manufacturing phase of the project.

The new control system is based around the Allen Bradley ControlLogix PLC with Wonderware based HMI's. The system will be designed for black start conditions and manual or automatic synchronization.

The Allen Bradley ControlLogix controller performs all of the necessary gas turbine governing and associated plant-sequencing functions during turbine start-up, power generation, and shutdown.

As technological leaders in the supply of turbo-generator services, for both the OEM and retrofit markets, HPI uses professional project teams with extensive experience in the design of hardware and software, manufacturing, testing, installation, commissioning and supporting of turbine systems. Former key VT Controls and HSDE staff have 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.