



Keyspan Northport

A Flexible Approach from HPI

Keyspan is comprised of regulated natural gas and electric utilities and unregulated subsidiary companies. The Keyspan Corporation is one of the largest distributors of natural gas in the United States. Keyspan recently requested HPI's help in upgrading the control system on the General Electric Frame 5L at the Northport facility.

HPI has previously upgraded PLC based control systems at Keyspan's Ravenswood plant, where they provided:

- The Modicon Quantum PLC Gas Turbine Control System
- Fuel metering valve
- Vibration monitoring
- Generator control and protection
- Auto-synchronization
- Auto voltage regulator
- Local/remote monitoring and control
- Various instrumentation and wiring

The contract went out to HPI to perform a control system upgrade on the GE Frame 5L in order to upgrade the engine so it could be reliably black-started. The engine was supplied with software capable of controlling the engine on a dual fuel system. However since this is a liquid fuel type only engine, the gas fuel control was configured to off, but it will be possible to use this control if it is upgraded in the future.

For this project HPI worked with TGCS, Turbine Generator Control Specialists an experienced and extremely responsive company. TGCS is one of the top companies in turbine field service work which is a critical part of any refurbishment project. Keyspan is in fact one of TGCS's largest clients, and has had a long history of service with the company.

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.