



Ready provides customers with responsive Compressor Turbine facility DCS support. With offices in both Canada and the US, Ready supports projects throughout North America and the world.

We do more than provide DCS configuration support. Ready engineers have DCS, industrial control system, and process expertise that enable us to take ownership of our customer's problems, propose complete solutions, and implement those solutions.

INDUSTRY EXPERTISE

- DCS Commissioning Coordination and Support for Compressor Turbine Start Up
- Customized DCS Training
- AGC (Automatic Generation Control) Interfacing
- Frequency Biasing Logic
- 3rd Party Connectivity
- Fuel Blending Logic
- Historian installation, configuration, and corresponding historical reports
- Control system upgrades and audits
- Gas Custody Transfer Audit Reports
- Plant performance calculations
- Continuous Emissions Monitoring integration

TECHNICAL EXPERTISE

- Control Systems: Delta V, Foxboro, Emerson Ovation, WDPF, Bailey.
- Historians: Capstone, PI, IP.21, Intellution, Wonderware.
- Communications: TCP/IP, ControlNet, DeviceNet, PROFINET, PROFIBUS, DH+, A-B Remote I/O, DH485, DF1, MODBUS, RS232, RS422/485, OPC.
- Turbine Models
 - SW 501DA, SW 501F
 - GE Frame 5, LM6000, 7EA, 7FA
 - GTX-100

TYPICAL CLIENTS

TransAlta
Redding Electric Utility
Tenaska

Entegra Power
PSEG

INDUSTRY PARTNERS

Gas Turbine Efficiency
Turbine Technology Services

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GAS TURBINE FACILITY PROJECTS

LM6000 Turbine Co-generation facility, USA

Ready filled the role of I/C commissioning manager for a 248MW cogeneration facility consisting of 4 GE LM6000's with a single MHI 80MW steam turbine. Developed loop test and function test procedures for the various systems. Managed I/C commissioning personnel to ensure systems were commissioned and turned over to operations to meet the plant start-up schedule. Balance of Plant control was provided by a Westinghouse Ovation DCS, with turbine control being provided by GE Mark IV controller and Wonderware HMI.

Siemens Westinghouse 501DA Turbine, Ecuador

Ready provided WDPF support and start-up of a SW 501DA power barge. Performed start-up commissioning, instrumentation troubleshooting, and WDPF modifications. Provided customized training to site personnel. Tuned the unit to 10-15 MW above maximum load before maintenance.

GE 7FA Auto Tuning, AGC Projects – Multiple Sites, USA

Ready provided Ovation DCS support for installation of automatic tuning systems on multiple GE 7FA compressor turbine units throughout the US. Modified control logic, HMI, and I/O configuration to third party hardware. Completed commissioning to verify I/O and logic. Provided Ovation DCS configuration support for system modifications for AGC (Automatic Generation Control) and Frequency Bias. Performed logic review of changes to system from OEM and recognized deficiencies that were reviewed, modified, tested, and documented.

GE Frame 5 Turbines, Angola

DCS lead for commissioning and start-up of GE Frame 5 turbines. Managed and performed changes to WDPF DCS including logic, hardware, database, and HMI configuration and troubleshooting. Provided instrumentation and field support as required for start-up of the unit. Provided customized training to site personnel, as well as remote support from our US office.

LM6000 Co-generation Facility, USA

Ready performed a WDPF migration study and identified how to better utilize the existing WDPF system to avoid a \$2 million dollar DCS expansion.

Co-generation Facility – CEMS Modification, Canada

Ready developed a detailed engineering design for replacing the stack CEMS instrumentation with new devices that would work with low flows when the customer's new FGD was operating. Work scope included procurement, construction supervision and commissioning of the project. Ready also designed the interconnections from the CEMS panel and flow monitor to the existing DAS PLC along with all stamped as built drawings for the project.

Co-generation Facility – NERC Study, USA

Provided the customer with a secure, robust and expandable network that met the requirements imposed by the NERC cyber security standards. Upgrades to the new network consisted of redundant Cisco switches, new cabling and a new Windows 2003 domain. A Cisco firewall was installed to provide secure access to Windows security updates and McAfee Virus Scan signatures. Several procedures and documents were created to assist plant staff with the on-going maintenance issues associated with maintaining a secure network environment.

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