



Ready is an engineering industry leader, providing controls and electrical engineering expertise to the Power Generation Industry in North America and around the world.

We design, upgrade and improve our customers' sophisticated control, protection, and plant power distribution systems to advance their operations.

INDUSTRY EXPERTISE

- Third party control system integration into existing DCS, PLC, HMI, and Historian systems.
- DCS system design and configuration.
- Industrial power distribution design.
- Turbine and generator protection.
- Power system protection and coordination.
- Continuous Emissions Monitoring Systems.
- Process historian installation and customization.
- Controls start up and commissioning support.
- Power generation industrial networking and security, including NERC compliance and security audits.

TECHNICAL EXPERTISE

- **DCS:** Bailey, Foxboro I/A, WDPF, Ovation (Solaris, Windows), Siemens.
- **PLC:** Allen-Bradley, Modicon, Siemens, GE.
- **HMI:** Citect, Wonderware (InTouch and AppServer), Intellution, FactoryLink, WinCC.
- **SCADA:** Bristol, FloBoss, ROC, SCADApack.
- **Historians:** PI, IP.21, Capstone, Wonderware, Citect.

POWER INDUSTRIES

Coal-Fired
Natural Gas
Hydro
Nuclear
Wind

TYPICAL CLIENTS

TransAlta Utilities
ATCO Power
PSEG Power
Westinghouse Electric (Nuclear)

Ready Engineering Corporation

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TYPICAL POWER GENERATION PROJECTS

Nuclear Facility Control System Replacement, Sweden.

Provided teams responsible for improving, implementing, and tracking commissioning procedures, managed multiple troubleshooting teams, provided technical instrumentation and DCS support to commissioning teams, and provided general commissioning and start-up project management and support. Using our commissioning experience, Ready quickly identified opportunities to increase efficiency, decrease bottlenecks, improve procedures and develop project tracking and controls. Ready provided the project team with expertise in the commissioning process and proactively identified project risks, proposed complete solutions, and provided short and long-term resources to implement these solutions.

Coal Power Plant - Owner's Engineer and Commissioning Manager, USA.

Ready provided owners with platform, process, and management expertise. As the owner's engineer, Ready has overseen the logic migration from old control systems to modern DCS, PLC, and historian systems. Ready participated in hardware specifications, hardware and logic design reviews, factory acceptance tests, and performance and acceptance tests. As Commissioning Manager, Ready managed the development, execution, tracking, and acceptance of commissioning procedures.

Cogen Facility Commissioning and Start up support, USA.

Filled role of I/C Commissioning Engineer 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 each plant system. Managed I/C commissioning personnel and tracked progress to ensure systems were commissioned and turned over to operations to meet the plant start-up schedule.

132 MW Wind Farm Substation HMI, USA.

As part of the of 132MW wind farm project, Ready provided the HMI for the wind farm substation and resulting control centers. The client was provided a scalable HMI with standards applicable to future wind farm substations.

Hydro Dam Control System Replacement, USA.

Replaced an obsolete DCS control system of a 1 MW hydro dam with a modern PLC control system. Scope included PLC panel design, logic programming, commissioning, start-up and ongoing support of facility.

3rd Party Gas Turbine Process Improvement – Integration of 3rd Party Controls Systems – Multiple Sites.

Integrate third party control systems used to optimize GE Frame 7FA turbines. Configure communication interfaces between the balance of plant DCS, turbine control system, and third part control system. Responsible for DCS logic and operator graphic changes. When completed, the system seamlessly integrates with the existing plant control systems and historian.

Coal Plant Historian Configuration, Support and Maintenance – Multiple Sites.

Provided support, configuration and administration for a wide variety of data collection systems including IP.21, CIM/21, PI, Oracle and several application-specific systems. Responsible for the development, maintenance and modification of several process related reports and process graphics. Created a variety of process graphics and tools to analyze process data.

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