

**EXPECT MORE. GET MORE.**[www.readyengineering.com](http://www.readyengineering.com)

Ready engineers combine their extensive Ovation and WDPF expertise, industrial control system experience, and project management skills to provide our customers with solutions, not simply DCS programming assistance. Our Annual Support Agreements provide customers with ongoing support to help keep their systems running smoothly.

Ready engineers are capable of scoping project needs, developing project budgets, coordinating vendors, integrating third party control systems with the DCS, and for providing DCS logic, graphic, alarm, and historian configuration.

### **INDUSTRY EXPERTISE**

- Expansion of existing systems
- Migrating and integration of other plant controls to Ovation or WDPF platform
- Logic design and verification from process narratives or general project scope.
- Customized Training for Engineers, Operators, and Technicians.
- System Backup and Maintenance

### **TECHNICAL EXPERTISE**

- Support all Emerson DCS Platforms (Ovation Solaris, Windows NT, Windows XP and WDPF)
- 3<sup>rd</sup> Party Connectivity through QLC/RLC modules or through the Ethernet network.
- Hardware specification
- Historian maintenance and alarm management
- WDPF and Ovation Annual on-site and telephone support agreements

### **TYPICAL CLIENTS**

TransAlta Centralia Generation  
PSEG  
Westinghouse Electric  
Goal Line Operations

### **INDUSTRY PARTNERS**



[www.deepsouthhardwaresolutions.net](http://www.deepsouthhardwaresolutions.net)

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## **TYPICAL OVATION AND WDPF PROJECTS**

### **OVATION - Nuclear Facility Control System Replacement, Sweden**

Project recognized as the first complete control system replacement at a nuclear power plant and the largest ever controls upgrade in the industry. Ready 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 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.

### **OVATION - Coal Power Plants, USA**

Ready provides ongoing support for the Ovation system combined with process and management expertise. Ready has overseen the logic migration from old control systems to modern DCS, PLC, and historian systems. Ready participates in hardware specifications, hardware and logic design reviews, factory acceptance tests, and performance and acceptance tests. As Commissioning Manager Ready has managed the development, execution, tracking, and acceptance of commissioning procedures for several control system projects.

### **OVATION - Cogen Facilities, USA**

Ready has managed and executed Ovation DCS logic changes for cogeneration facilities consisting of 4 GE LM6000's with a single MHI 80MW steam turbine. Ready designed and coordinated moving Turbine Control Board and Turbine Control Board functionality into the DCS. Ready also added hardware, logic, graphics, and 3<sup>rd</sup> party connections for operation of a power plant from a remote location in a nearby power plant control room.

### **OVATION - 3<sup>rd</sup> Party Gas Turbine Process Improvement – Integration of 3<sup>rd</sup> Party Controls Systems – Multiple Sites.**

Ready integrates the DCS with third party control systems used to optimize GE Frame 7E turbines. Ready configures communication interfaces between the balance of plant Ovation DCS, turbine control system, and third party control system. Ready is responsible for Ovation DCS logic and operator graphic changes. When completed, the system seamlessly integrates with the existing plant control systems and historian.

### **WDPF - Siemens Westinghouse 501DA Turbine, Ecuador**

WDPF support and start up of an SW 501DA power barge. Ready performed start up commissioning, instrumentation troubleshooting, and WDPF modifications and tuned the unit to operate 10 -15 MW above maximum load achievable before maintenance. Provided customized training to site personnel.

### **WDPF - GE Frame 5 Turbines, Angola,**

Technical 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.

### **WDPF - Siemens SGT6-5000F (W501F), USA**

Provided WDPF support for installation of water wash skids on Siemens SGT6-5000F turbines. Logic, hardware, database, and HMI configuration and troubleshooting.

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