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Ready is an engineering industry leader providing Siemens controls, instrumentation, and electrical expertise to the heavy industrial and manufacturing industries.

Ready supports many different industries with a wide range of Siemens products. We can support plant wide Siemens installations of PLCs, instrumentation and variable drives, and specialized projects involving integrating Siemens controls into your existing plant control system while your process stays on-line. Ready's trained personnel will ensure your facility will extract the most value from your Siemens products.

TECHNICAL EXPERTISE

- PROFIBUS network design and troubleshooting.
- Installation, configuration, maintenance and support of Siemens PLCs, HMIs, instrumentation and drives.
- Troubleshooting PLC and HMI issues.
- High reliability DCS, PLC and communication design.
- Siemens instrumentation, drives and automation system specification and application assistance.

SYSTEMS EXPERTISE

- **PLC:** S7-400, S7-300, S7-200, Logo.
- **HMI:** WinCC Flexible.
- **SCADA:** WinCC, Factory Link.
- **Instrumentation:** SITRANS, SIPART, and Pointek.
- **Drives:** Master Drives, Micro Master, Sinamics G and S series.
- **Communications:** TCP/IP, PROFINET, PROFIBUS (DP/PA), OPC.
- **Speciality Systems:** PDM (instrumentation) software, PCS7 (DCS) and communication to SPPA-T3000 systems.

INDUSTRIES

Power Generation

Oil and Gas

Steel Pipe Manufacturing

Biofuels

Cement Plants

Plastic Machinery

Ready Engineering Corporation

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SPECIALIZED SERVICES

- Reconfiguring and/or optimizing existing installations of Siemens controls, instrumentation, and drive applications.
- Experts at coordinating and managing control system installation, testing, commissioning and handover to operations for systems containing thousands of I/O points.
- Factory Link system upgrades and migration. S5 PLC migration.
- 24/7 standby remote and/or telephone support for commissioning, start-up and daily operations.

SIEMENS SYSTEM INTEGRATION PROJECTS

Start-up Company, Biodiesel Facility, Alberta

Ready supported process engineer and operations by optimizing the process through changes to the S7-300 PLC, WinCC Flexible HMI, Siemens instrumentation/PDM software, and Micro Master VFD drives. With process changes and corresponding changes to automation and controls the overall reliability and production of the plant was increased.

Fracturing Process – Chemical and Blending Trucks, Alberta

Created a generic and easy to configure program that could be used on either chemical or blending fracturing trucks in the oil and gas industry. The PLC could be configured on the fly as a blending or chemical truck, providing a standard PLC configuration for both types of trucks. Input and output cards were programmed to generically assign IO from the HMI, reducing downtime in the field. This allowed the instrument on a failed channel to be rewired to any spare channel, and using the HMI the technician could reassign the input or output channel for the instrument. The HMI and PLC program was created using Step 7 and WinCC Flexible 2008.

Steel Pipe Manufacturer, Saskatchewan

Using the Siemens Step 7 PLC software, WinCC Flexible software, PROFINET network and OPC server, improvements were made to a steel pipe manufacturing facility to increase production. This was accomplished by programming complex calculations directly into the PLC for the new steel mill, material handling system, and complex quality control system for welding and splicing. Further optimizations were made to the inspection systems, resulting in an 8% production increase.

Fracturing Process – Hydration Truck, Alberta

Step 7 PLC and WinCC Flexible HMIs were programmed for hydration trucks used in the fracturing process in the oil and gas industry. Established Profinet connection to trucks to monitor job progress and truck location, and to collect job data that could be analyzed later.

Power Generation, Alberta

Supported Operations Local Area Network (OpLAN), providing on site troubleshooting and modifications to the SPPA-T3000 FDDI network and the related third party SPPA-T3000 interfaces.

Oil Sands, Alberta

Using demo equipment provided by Siemens Canada, a PCS7 demonstration project was created to showcase the PCS7 hardware, software, and operator graphics to a client involved in the Alberta Oil Sands. This involved creating a PCS7 project involving simulated IO, control logic, and operator graphics.

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