

SELECTED CONTROL SYSTEM PROJECTS

Weyerhaeuser Company

(Particleboard Plant Modernization)
Moncure, North Carolina

- Designed, programmed, and debugged (6) Modicon 584 PLC systems
- Designed, programmed, and debugged HMI system
- Designed and drafted control system installation and wiring drawings

Weyerhaeuser Company

(OSB Plant Optimization)
Elkin, North Carolina

- Modified (4) Allen-Bradley PLC systems
- Designed, programmed and debugged (2) Allen-Bradley 584 PLC systems
- Designed and drafted control system installation and wiring drawings

Pope & Talbot Paper Mill

(Mill Maintenance Projects)
Halsey, Oregon

- Programmed A-B VFAC drives for various conveyors and pumps
- Programmed A-B PLCs using ICOM software for various systems
- Programmed A-B Panelview graphical user interface for lime kiln burner control
- Modified various existing Controlview operator interfaces
- Mill liaison for PLC motor control interface to Rosemount DCS (retrofit from Fisher-Porter panel mount controllers)
- Project management and design of instrumentation for various systems

Weyerhaeuser Paper Mill

(Secondary Fiber Cleaning and Screening Modifications)
North Bend, Oregon

- Designed A-B PLC 5/25
- Designed A-B Panelview HMI
- Debugged, start-up, and commissioned the system
- Provided operator training

James River Paper Mill

(Pallet Inserter for Tissue Line)
Halsey, Oregon

- Designed TI PLC program
- Provided installation drawings

Eljay Corp. (Division of Raytheon)

China National Chemical Co.
(New Plant)

Huji Town, Hubei Province, China

- Designed A-B SLC500 PLC with EEPROM memory module
- LV MCC with VFAC drives, starters, and PLC integrated into one structure. Program loaded prior to shipment.
- Start-up and training of Chinese engineers in PLC programming in China

Scott Paper Co. Paper Mill

(Screen Room Revisions)
Mobile, Alabama

- Upgraded Modicon PLCs to Model 984 for major screen room renovations to mill with nine paper machines
- Designed third-story semi-circular bay window control room looking out over the entire woodyard
- Designed 38 foot-long, semi-circular, mimic graphical control panel with seven color CCTV monitors above windows viewing woodyard
- Programmed two PLCs, one with over 1,000 networks of logic and data exchange with DEC supervisory computer network, including an operator terminal in control room
- Provided debug, start-up service, & commissioning of equipment consisting of three months on site and 24-hour coverage after maximum shut-down windows of four hours (silo draw-down time to prevent paper machine shut-down)

Dow Corning Silicon Refiner

(Silica Fume Recovery and Packaging)
Springfield, Oregon

- Used load sensor to control VFAC drive which determined the density of compaction of silica fume used to densify concrete to 30,000 PSI
- Designed and programmed A-B PLC and operator control stations
- Debugged, started up, and commissioned the system and later returned to tune up for delivery of large order for the Denver airport runway

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International Paper Co. Paper Mill

(Drive Through Truck Dump)

Gardiner, Oregon

- Designed A-B PLC and programmed
- Designed Panel-Mate operator interface and control panels
- Wrote Operator Training manuals and conducted training classes
- Provided debug, start-up services, and commissioned equipment

International Paper Co. Paper Mill

(Screen Room Revisions)

Gardiner, Oregon

- Programmed A-B PLC
- Designed control panels
- Provided debug, start-up services, and commissioned equipment