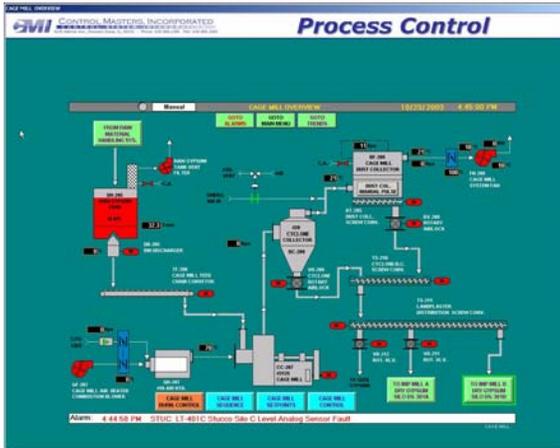


Control Masters Application Case Study

Process Control



Technologies

Process Control
Closed Loop PID Control
Data Logging and Trending

Services Provided

PLC Integration
SCADA / HMI Integration
Electrical Engineering
Control Panel Fabrication

Project Description

This project provided control for a wallboard line at a gypsum plant. The line took the raw gypsum and processed it by crushing and heating it several times then placed it into storage silos where it was then later used to form the sheets of wallboard.

The system was controlled by a ControlLogix PLC with four remote racks of I/O connected via ControlNet, with each rack dedicated to a specific sub system in the process. The remote I/O racks as well as the local rack resided in 2 control panels with each panel also containing a touchscreen terminal.

There were three RSView terminals running identical applications, one running on a workstation and the other two running on the touchscreen terminals located in the panels. The RSView application provided complete control over the entire system from any of the three terminals as well as performing data logging and trending of important data points. The three RSView terminals and the PLC were connected via Ethernet.

The PLC was also used to control three burners in the system. Each burner had a Honeywell Burner Control module and the PLC interfaced with that via several hardwired signals to manipulate and control the burners.