

CONTROLS & AUTOMATION SERVICES



mclanahan.com



Touch Screen HMI

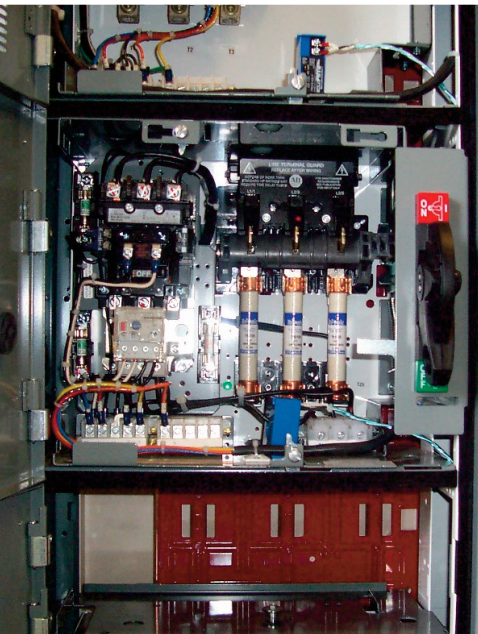
From the simplest control system to complete plant system design, integration, and remote monitoring, McLanahan's electrical engineering team offers full electrical services and modern, cost-effective solutions.

PLC CONTROL

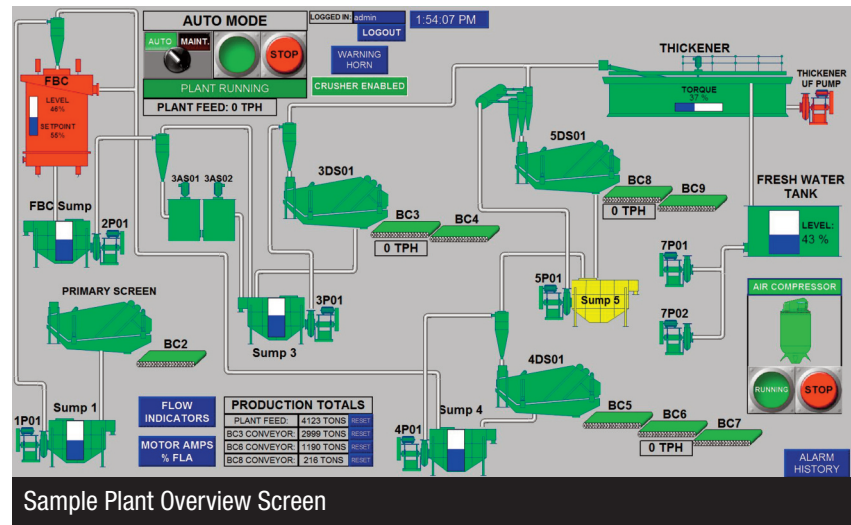
We offer full PLC control of any brand of equipment to provide a unified and seamless operation. By integrating an entire system's operational logic onto a single platform, we are able to leverage our decades of process and machine design experience to deliver a complete solution that few other manufacturers or integrators are able to provide.

HUMAN MACHINE INTERFACE (HMI)

We fully program touch screen Human Machine Interfaces to allow operators complete control with monitoring, and troubleshooting capabilities. Custom systems require custom solutions and McLanahan can tailor the operator interface to meet specific customer needs with any combination of touch screens, push buttons, PC based systems, remote control and monitoring, wireless solutions, and more.



MCC Starter Bucket

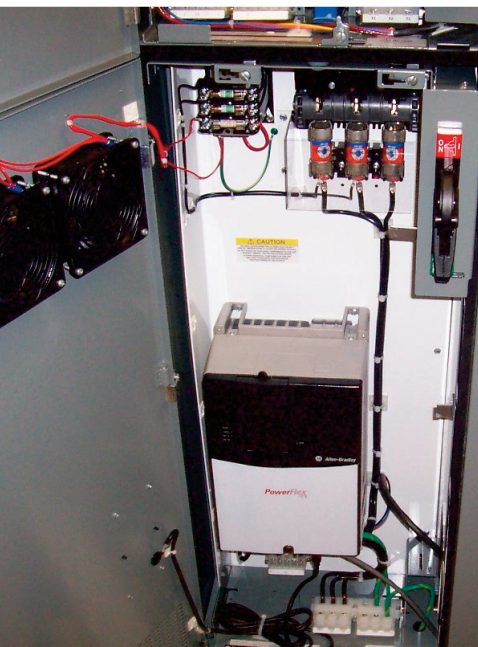


MOTOR CONTROL CENTER (MCC)

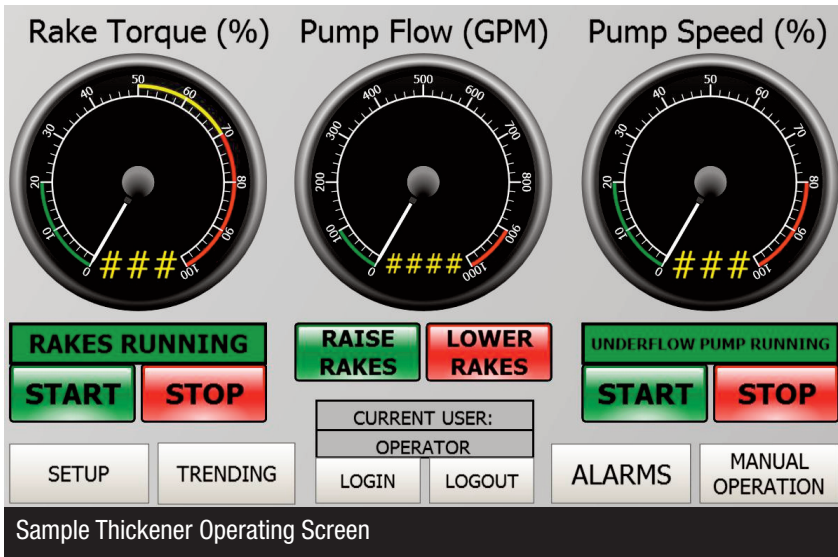
- If equipment dictates the use of several motors, we can provide Motor Control Centers complete with HMI controls.
- We also offer stand-alone climate-controlled buildings for housing MCC components. These can include interior and exterior lighting, windows, false-floor hidden cabling, and more.

MACHINE/PLANT SAFETY

We take great care in providing machines that are as safe as possible without hindering operator control and machine functions. Safety interlocks can include e-stop push button operators, tape switches, pull cords, light curtains, tamper-proof guard switches, and more.



MCC VFD Bucket



HAZARDOUS LOCATIONS

For machines that are heavily involved in material processes that generate potentially combustible particulates and gases, such as coal mining, we offer their safe operation in ATEX and Class I and II, and Division 1 and 2 environments.

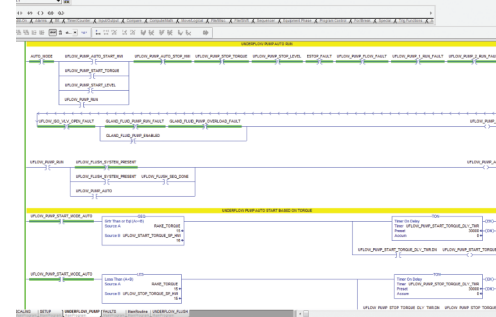
IN-HOUSE ELECTRICAL PANEL DESIGN AND ASSEMBLY

With full control over panel design, sourcing components, assembly, and testing, we ensure that electrical panels are of the highest quality at minimal cost.

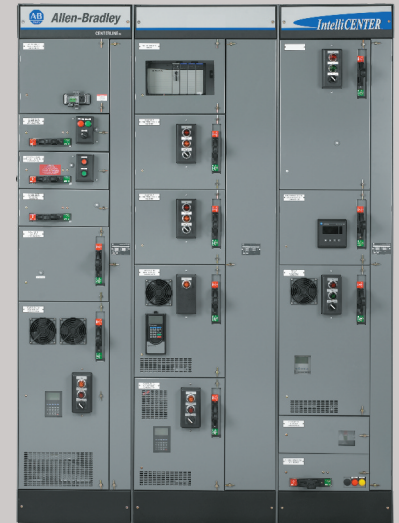
ADVANCED CAPABILITIES

- **Remote Access And Support** – Simply by supplying an internet connection to our control panel's remote VPN router, we can remotely log on to your machine to troubleshoot, monitor, and make program changes.
- **Alarm Notification Emails And Texts** – We offer the ability to text message or email plant managers, owners, etc. when a machine experiences an alarm or fault condition.
- **Data Logging** – We can show a history of selected values for a given input or output on the HMI. This is a valuable troubleshooting aid for revealing overcurrents, flow issues, and power fluctuations, etc.
- **Process Trending** – Utilizing real-time monitoring and charting of process variables provides a visual representation of your process for fine-tuning the system for a smoother operation and increased production.

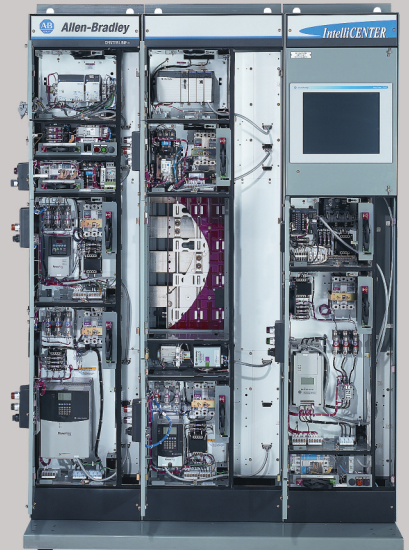
**McLANAHAN OFFERS PARTS AND SERVICE
24 HOURS A DAY, EVERY DAY!**



Ladder Logic Programming Environment



Allen Bradley MCC – Exterior



Allen Bradley MCC – Interior



Touch Screen HMI



CORPORATE HEADQUARTERS Pennsylvania, USA | +1 (814) 695 9807
sales@mcLanahan.com | mcLanahan.com