



SynFuels “Feed Belts” Control House

MINING APPLICATION STORY

Application/Problem:

Closing of a mine site necessitated move of a Synthetic Fuels Compounding Plant to a newly opened site, avoiding raw coal transport costs. The new site would have all new feed equipment, necessitating new controls and power distribution for that portion of the process.

Given the fast-track project nature and lagging mechanical design and construction, Client desired pre-fabrication and pre-testing of the control systems prior to installation, reducing actual site construction time for the electrical systems.

Project Solution/Customer Benefit:

Flanders Electric – Engineering Division and Custom Controls Shop provided a modular control house package to accommodate the new SynFuels plant’s feed equipment.

Flanders Electric provided a PEMCO control house that contained the following equipment, pre-wired and tested:

- *800 Amp Square D “I-Line” Power Distribution Panel;*
- *Allen-Bradley 250HP AC Drive;*
- *ControlLogix Controller (With An EtherNET/IP, ControlNET Interface) and PanelView 325 Operator Interface Inside a 90” x 72” x 20” NEMA 12 Enclosure;*
- *All ControlLogix I/O Modules Were Wired Using Pre-Wired Swing Arms and IFM’s From Allen-Bradley to Reduce Wiring Time in the Shop;*
- *Three (3) Client Supplied AC Drive Packages from OEM Feed System;*
- *120/240 Service Distribution Panel;*
- *4-Ton, Wall – Mounted A/C / Heating Unit; and*
- *Electrical Elementary Drawings for All Systems.*

Due to Client’s very aggressive schedule, Flanders Electric decided to order the control house from PEMCO. PEMCO did an outstanding job in fabricating and delivery of the control house in a very timely matter. Flanders Electric Custom Control personnel did an excellent job in installing and testing the hardware inside the control house and having the building ready to ship at a very accelerated schedule. This single piece control house and related Engineering Services for site pre-work allowed installation to be completed within the Client’s schedule.