



SynFuels Plant Installation Engineering

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. Existing control system documentation consisted only of minimal PLC drawings.

In order to move the plant within the allotted 17-day outage, Client needed a basic installation package and documentation on the existing systems to be re-installed.

Project Solution/Customer Benefit:

Flanders Electric – Engineering Division provided an installation package to accommodate the relocation of the SynFuels Plant. This included evaluation of the existing installation versus the planned site, addition of new feed equipment, and consideration of changes to equipment orientation. Key project goals were pre-outage work to be completed on a compressed schedule and installation features that would allow rapid reconnection of the relocated equipment. Client desired minimal net outage due to high downtime costs associated with this particular facility.

Engineering Services provided by Flanders Electric included:

- *System Requirements Specification Document*
- *Conduit Diagrams - Embedded Plan Views and Exposed Riser Diagrams*
- *Circuit Pull Schedules*
- *Miscellaneous Layout and Riser Details*

The resulting package allowed the new feed equipment to be installed in an efficient manner and also allowed cables to be in place for the main plant prior to the outage. Junction boxes were mounted at conduit stub up locations with cables coiled inside the boxes, ready for addition of exposed conduits and final “make-up” to field devices.