

Client: Klinge Chemicals

Product: Power Factor Correction

Date: June 2017

Introduction

Our client within the chemical industry approached us with requirements for Power Factor Correction equipment to add to their site. The client was looking to reduce their electrical charges and carbon footprint, as well as eliminate expensive reactive charges from their electricity supplier.

Works Breakdown

The first step was for SDC Industries to conduct a site visit, to assess the requirements of the client for PFC equipment. After undertaking the site visit, planning and production began.

It was decided that a 75KVAR (3x25KVAR stages) Varmatic Classic, 3 Stage fully automatic power factor correction control panel should be installed in Unit 7 and 2-off 50KVAR Varmatic Classics (2x25KVAR stages), 2 Stage fully automatic power factor correction unit would be installed in Unit 5.

SDC Industries personnel were to arrive on site at a time agreed by both parties. Our engineers should be shown the location of the power factor correction units by the client's designated contact.

The areas to be worked on should have means of isolation and it was the responsibility of the SDC Industries engineers to ensure that any work performed was carried out in a safe and secure manner.

Unit 7

The existing 65KVAR Varpac was switched off and the switchboard was shut down, in consultation with the on-site contact. Existing cable was removed from the switchboard and the old PFC unit was removed. The new PFC unit was positioned and secured at the planned location, with new cable installed from the busbar to the new PFC unit.

After installation, the switchboard was re-energised, the PFC unit switched on and commissioned. All were found to be fully operational and in good working order.

All debris was tidied, and the site was left in order.

Unit 5

From the site survey, it was decided that 2-off 50KVAr Varmatic Classic units should be installed. Again, the switchboard was shut down and the PFC units were positioned and secured. Cable was fitted from the busbar to the new PFC units, and an earth cable was run. A current transformer was installed on the L1 main cable and cabled to the PFC units.

After installation, the switchboard was re-energised, the PFC unit switched on and commissioned. All were found to be fully operational and in good working order.

All debris was tidied, and the site was left in order.

Conclusion

The job was completed on time and on budget.

Customer Comment:

“The 3 PFC units were professionally installed and commissioned on time with minimum disruption as planned.”

Gary Jenkins, Engineering Maintenance Manager, Klinge Chemicals