



SIGMA Site Load Correction

The SIGMA site load correction (SLC) will automatically maintain a required level of loading on the generating set. Element groups in the load bank are controlled by internal contactors, which are in turn controlled by the Sigma load share control.

The system includes a 3 phase power transducer which is detecting the site load. When the site load decreases the load provided by the load bank will increase. Conversely, when the site load increases then the load bank load will decrease, thereby automatically maintaining an acceptable level of loading on the genset.

The level of load which is applied to the generator is set within the system but can be adjusted by means of an external switch that will give up to twelve individual set point settings.

Each load step will only be applied when the site load is continuously below the load set point threshold for a predetermined time, each step going on consecutively.

Load steps will be released immediately the generator set load increases above the set point selected.

On receiving the initial signal that the generator is running, the load bank load will be inhibited from operating for a predetermined time, to allow the generator to stabilize. The time to be agreed.

Decisions on the starting/stopping of the load bank fans and load to be finalised.

For this type of control to operate there is a requirement for three current transformers to be fitted in the power cable or busbar system from each generator set. It is the customers responsibility to supply and fit suitable CT's and wiring back to the load bank. Drawings will be provided.