

Scope of Work – SIEMENS SIMOPRIME

To provide maintenance support for the maintenance, inspection and testing of a Siemens Simoprime 20 Panel switchboard.

Having reviewed the single line, we note that the switchboard consists of 3 Sections (4 Incomers and 3 Bus Sections) with the downstream Rings having normally open points.

In view of this, we have allowed for the works to be completed over 4 consecutive days, allowing for each section to be isolated in turn.

Our offer is based on an intrusive 4 year high level maintenance and test to be carried out on each circuit based on the specification below.

Vacuum Circuit Breaker Maintenance & Test

All works would be carried out in line with the Siemens O&M Manual, which would include, but not be limited to, the following:

- Inspection of insulators, supports, and resin mouldings.
- Electrical and mechanical operational tests.
- Resistance of operating coils.
- Ducter resistance tests at 10A across the closed VCB.
- IR @ 5kV tests both with the VCB open and closed.
- HV AC Vacuum integrity tests across the open vacuum bottles.
- Inspection of the operating mechanism and linkages.
- Lubrication of the mechanism would only be carried out should this be determined during the maintenance, and only as detailed in the O&M manual (Kluber Isoflex/Topas etc). There are circuit breaker mechanisms that Siemens recommends not lubricating during normal service life.

In addition and subject to client requirements, it would also be possible to carry out the following switchboard checks:

- Busbar Ducter resistance tests at 10A – carried out with the VCB removed from the panel, busbar spout to busbar spout.
- Earth switch Ducter resistance tests at 10A.
- Busbar IR tests @ 5kV