K. When the normal source has been restored to 90% or more of the rated voltage on all phases, the load shall be retransferred to the normal source after a programmable set time delay.

L. Upon restoration of the normal source to full voltage and frequency, the generator will continue to run unloaded for about 5 to 10 minutes programmable and then shutdown. The generator shall now be ready for next operation automatically in case of failure of a normal source.

M. It may be possible that the generator fails during running on load, retransfer under such condition to normal source shall be made instantaneously upon restoration of proper voltage and frequency.

N. The transfer function shall be achieved through purpose designed microprocessor based controller equipped with LCD digital display and a keypad/touch pad for Para metering.

O. Auxiliary contacts wired to terminal shall be provided to indicate normal and emergency source availability.

P. A periodic NO-LOAD test on Transfer switches shall be conducted and logged.

1.3.14.6 Source Quality Control and Tests

A. All Switches shall be subject to the following witness tests to BS EN 60947 or other approved equivalent standard for voltages up to and including 1000 Volts.

B. Routine tests including H.V. pressure test, Millie-volt drop tests and mechanical tests.

C. Functional tests

D. Current injection tests as described under Clause 3.11.

E. Type Test Certificates giving records of performance for identical circuit breakers shall be made available.

1.3.15 Low Voltage Starters

A. The starter components as required are to form part of a Motor Control Centre and as such circuit connections; protection devices and the like shall comply with BS EN 60439.

B. The starters shall be in accordance with BS EN 60947-4. The starter compartments shall be so arranged to provide easy access to the component's