



EARTH GRID DESIGN AND TESTING

Ensure touch and step potentials remain at a safe level and your system complies with relevant standards with periodic earth grid testing undertaken by Ampcontrol's accredited engineers.

Our engineers assess the stability of the measured voltages at increasing distances to provide an accurate earth grid impedance measurement.

Our team utilises state of the art off frequency current injection methods and analysis technology for assessment of soil resistivity, electrode and earth grid resistance, calculation of touch and step potentials, all completed without interruption as tests can be performed whilst the substation is still energised.

Our technology provides accurate knowledge of the voltage gradients around the earthing system allowing highly accurate analysis of the step and touch voltages that require monitoring. This is achieved using off frequency current injection in the area surrounding the substation.

After the testing is completed Ampcontrol supplies manuals and documentation to support analysis and findings. These reports can be also supplied to relevant government authorities to support auditing processes.

Earth System Design

Our powerful simulation software provides earthing designs and calculations of step and touch voltages.

Earth Testing and Analysis

Our comprehensive field testing and analysis service utilises state of the art off frequency current injection methods.

Our services include measurements of:

- Soil resistivity
- Electrode and earth grid resistance
- Touch voltages
- Step voltages

Our approach offers:

- Improved safety - low current injection alleviates risk to personnel and plant
- No outages - tests may be performed while equipment is still energised
- Highly accurate results
- Verification of earth system design

Applications

- Mining and industrial applications
- Earthing system commissioning for new electrical substations
- Earth grid commissioning for new electrical systems
- Routine earth testing for pre-existing systems
- High Voltage safety compliance audits

Accreditations

AS/NZS2067

AS/NZS3007



1300 267 373

ampcontrolgroup.com

