

25 kV ac overhead line equipment



Always test before applying earths or straps.

Brief

- Always prove the testing device before and, where possible, after use
- Always test each conductor at each location and confirm the conductor is not live before applying an earth
- Testing at a Designated Earth Point (DEP) before applying a second (duplicate) earth is not required

This lifesaving rule applies to

- All components which may be energised at 25 kV ac, which includes but is not limited to:
 - Catenary system including contact wire
 - Bare feeders
 - Autotransformer feeder (ATF)
 - Supplementary conductors
 - Exposed cable terminations
 - Booster Transformers
 - Harmonic Dampers
 - Adjacent SMOS sites

This lifesaving rule does not apply to

- Return Conductor (RC)
- Remotely controlled, or manually operated fixed earthing devices when operated under the direction of the electrical control operator (ECO)
- OLE under construction (i.e. not capable of being energised)
- Local (depot) isolations

Learning for the future

- Every earth applied to a live conductor shall be formally investigated using the fair culture process
- A Close Call should be raised when a conductor is tested live and it is not expected to be live