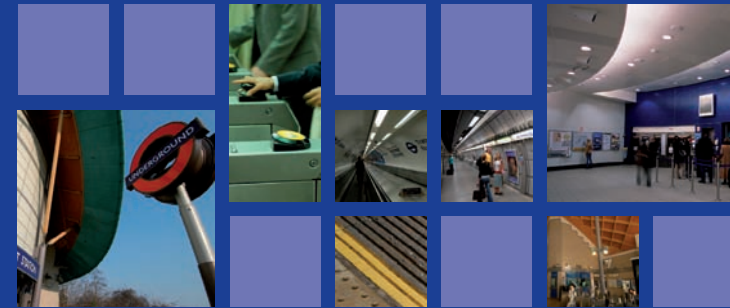


REMEMBER

- You must wear LU approved high visibility clothing at all times when you are on or near the track.
- Be aware of the danger from moving trains.
- Obey all safety signs and warnings when you are on or near the track.

25kV (A.C.) Overhead Line Equipment (OLE)



**Best practice for staff
working/walking near OLE**

**Operational Standards
Issue 01**

Precautions staff must take

When you are on a section of line which is adjacent to or passes over Network Rail lines electrified by the 25kV (A.C.) Overhead Line Equipment (OLE) system, you must always:

- consider the overhead lines and attachments to be live at all times and extremely dangerous to life
- make sure that you, your clothing and any articles you are carrying, are at least 2.75 metres from:
 - anything attached to or hanging from the OLE equipment
 - any broken or disconnected wire connected to the OLE
 - equipment, whether it is hanging or lying on the ground
- make sure that any articles do not come within 2.75 metres, by:
 - carrying long articles horizontally
 - keeping paint, water and other liquids well away from where they might be thrown, fall or splashed onto OLE
 - keeping tools and equipment, including ropes, wires, tapes and surveying equipment, well clear of the OLE
- take extra care to make sure you do not come within the 2.75 metres when you are:
 - on a structure of any kind
 - standing on a vehicle



The above diagram shows an image of overhead line equipment.



Railway Group Standard GE/RT8024 outlines the safe systems of work for 'Persons Working On or Near to A.C. Electrified Lines'.

Restrictions

Do not attempt to remove objects of any description from the OLE equipment.

Do not carry out any work above OLE equipment (e.g. bridges, embankments and building roofs) unless:

- there is a physical barrier protecting the work area from the OLE equipment

OR

- the correct isolation and earthing arrangements have been made by a Network Rail approved person, and the relevant Network Rail isolation/immunisation forms have been issued to the controller of site safety/protection controller.

25kV (A.C.) OLE immunisation arrangements

At some locations, LU running rails carry a proportion of the return current of the Network Rail electrification. At these locations 'red bonds' are used which if disconnected, might under normal operating conditions result in either the bond, or the equipment to which it is attached, rising to a dangerous voltage.



'Red bonds' must only be disturbed by authorised personnel.

Do not cut a water, gas, air main or other metal pipe, or metallic sheath in an area where 'red bonds' are used, unless a temporary electrical continuity jumper cable, fitted by an authorised person, has been connected across the point where the cut is to be made. The authorised person must not remove the jumper cable until the pipe/sheath is again complete.

There are also supplementary bonds fitted at some locations for metal cased equipment, metal structures and fittings to prevent dangerous levels of touch voltages occurring. These bonds are covered green and yellow and must not be cut or disturbed by anyone who is not qualified to do so.

If an emergency isolation of 25kV (A.C.) OLE is required, the request must be made to the relevant LU controller.