MEASURING SEPERATION DISTANCES (LV & HV)

MGroupServices Telecom Division

METHOD OF WORK

Ensure a Site Specific Risk Assessment is carried out and control measures put in place.

Prior to any works taking place, overhead power line voltages must be established to determine if the lines are Low Voltage (1000volts ac or 1500 volts' dc) or High Voltage (greater than 1000 volts' ac or 1500 volts' dc).

Under no circumstances shall Telescopic Rods be used to measure the height of a HV Power Line, Ultrasonic Cable Height Meters must be used.

All equipment used for completing measurement must be within calibration.

High Voltage (HV)

1. Complete pre-use checks on Cable Height Meter, checking that it is operable and free from damage of defects.
2. Confirm location where height measurement is required and stand directly blow the overhead line.
3. Cable Height Meter must be placed directly below overhead line, on a level area of ground and clear of walls, buildings or similar structures.
4. In accordance with the device user manual, use the device to measure the distance from ground and between any additional line (i.e. BT to HV, HV to HV) to the overhead line and record the measurement.

Low Voltage (LV)

1. In addition to using the above method, distances on LV Power Lines can be measures using non-conductive Telescopic Rods only, however this method is not permitted during poor weather conditions, such as high winds or rain. Overhead lines must be confirmed as being LV.
2. Gloves IR 1000v must be worn at all times when using Telescopic Rods.
3. Position rods on ground below overhead line, while wearing Gloves IR 1000v, carefully raise Telescopic Measuring Rod to measure distance from ground to the overhead line and record the measurement.
4. All works must be carried out in accordance with Morrison Telecom Division Health & Safety requirements as well as any client specifications.
5. If you are in doubt or unable to determine the voltage of overhead power lines, stop work and contact your line manager.

HAZARD IDENTIFICATION

- Working in proximity to power lines
- Electrocution / Burns
- Weather Conditions / Wind & Rain
- Slips, Trips, Falls

PLANT, EQUIPMENT, MATERIALS

- Ultrasonic Cable Height Meter
- Gloves IR 1000v
- Non Conductive Telescopic Measuring Rods

EMERGENCY ARRANGEMENTS

- Ensure you are familiar with the point of work emergency arrangements.
- Utilise the Lone Working App when Lone Working.

ENVIRONMENTAL

- Always remain vigilant on your surroundings.
- Always remove waste materials from site

PPE REQUIREMENTS

PPE items shown below must be available and worn where necessary during this task.

IR 1000v				

COSHH

Refer to COSHH Assessments for further information

N/A	
N/A	