F-JHG MS37: Wrapping Fibre on conductor's through-high (20+) pole sets

Scope of Works

Fibre wrapping on a Conductor through high (20m+) pole sets

Sequence of Works

- Clearly identify works area. Position Manitou in normal work position.
- Ensure ground is stable before booming out jib.
- Using remote control boom up to work position.
- At Maximum height of plant, crew should ascertain difference in height between conductor and safe working position. i.e. how much conductor needs to be lowered.
- If it is safe to do so, lift the ladder from the basket onto the cross arm- alternatively a lines man will climb the pole with a rope and snatch block and the ground crew will pull the ladder up to the work location.
- When the ladder is in a suitable work position it will be secured to the ground using a rope and ground anchor
- Take the weight of the conductor
- When landing straps become slack remove pin and lower conductor to meet the basket
- The hook on the jib is attached to the lifting point on the tug and onto the tower before the tug is removed from the earth wire.
- The tug is released and lifted offline and swung around tower to the opposite side and attached. The tug is pushed out to a position on the line leaving enough room for the spinner.
- Repeat these actions for the spinner
- Fit the bale hanger and clamps
- Rewind the slack onto the spinner and engage the brake
- Adjust the counterbalance weight
- Make final checks on all pins and fittings
- Check tug and spinner
- Then tug is started up check controls, drive the tug away under control.
- De rig Pole set

<u>All lifting operations are to be covered by an appropriate, approved Lift Plan.</u>

Plant & Equipment and Certification Required

Operatives shall be fully trained and be in possession of calibrated equipment and correct PPE. All plant will be fully certified fit for use before any works proceed.
Rope and Block
Snatch Block
Hand tools
Lift Sling
Safety Sling
Jib Pole
Jib Winch
Fibre Materials
Pull Lifts
Ladder

Staff Involved and Certification Required

Only authorised personnel shall be permitted to carry out works. A minimum of two work team member will be on site at all times, no lone working permitted. Where required technical training is provided to staff on specific equipment, i.e. MEWPs training.

Access and Egress Points

Only permitted access/egress points will be used. Vehicles will be parked in a suitable location agreed with the site provider and Client Rep

Interface with Public

Access will be arranged pre-work and arrangements will be conveyed to the Supervisor/PDM through Contract Management. All required third party notification / procedures will be addressed by the Supervisor/PDM. Work area will be cordoned off to prevent unauthorized access. Appropriate signage will be erected, and a drop zone will be in forced prior to the commencement of any climbing.

Signage:

Signage will be erected at suitable locations at the work area.

Working hours

Normal Working Hours will be 07.00-19.00. Where an emergency Call out is required the working hours may be altered to suit the customer requirements. This timing will be agreed between the project manager and the service provider.

PPE
Safety Boots, Helmet, Eye protection, Hi Vis Clothing, Gloves, Harness, Double Lanyard, Pole Rope.

F-JHG MS 38: wrapping fibre on conductors using arm mounted brackets (winches hat)

Scope of Works

Fibre wrapping on a Conductor using an arm mounted bracket (Witches Hat)

Sequence of Works

- Lines man will climb the pole with rope and snatch block
- When he reaches the work location (the cross arm) the ground crew will pull up the ladder to him.
- The ladder is positioned on the arm and secured to the ground using a rope and ground anchor
- The ground crew will then pull the arm mounting bracket to the work location.
- The climber will attach himself to the cross arm using a Sala block, he will then step out onto the ladder, and attached his pole rope to the ladder.
- From this working location he will attach the cross-arm bracket to the cross arm and adjust to suit the arm size and fit the anti-twist bars with 2tonne slings on the end.
- Ensure locking pins on anti-twist bars are fitted.
- The jib will then be fitted onto the arm mounted bracket.
- A second linesman will climb the pole halfway to where the bottom of the 2 tonne slings of the anti-twist bars
- He will fit the bond of the tirfor onto these.
- Tension is taken at ground level on the tirfor.
- The rig is now ready for transfer of tug.
- The second lines man climbs up rest of the pole to the work location.
- First lines man descends ladder to conductor position
- The fibre is secured behind the spinning machine with a span end clamp, enough slack should be reeled off to get the other side of the insulators.
- The locking pin on the spinner is disengaged and the spinner is fully rotated twice. The tug is disconnected from the spinner.
- The safety sling is attached to the tug lifting handle and the other end is attached to the arm, ensuring that the conductor is protected during the following steps:
- The tug is manoeuvred around the insulator set and landed on the conductor; the tension rollers are tightened up. The tug is pushed out on the line. The spinner is removed from the conductor and manoeuvred around the insulators and landed on the conductors.
- The tug and spinner are reconnected together
- Insert safety pin
- Fit the bale hanger and clamps
- Adjust the counter on all pins and fittings
- Then tug is started up check controls, drive the tug away under control.
- De rig Pole set, by lowering all equipment to the ground

Plant & Equipment and Certification Required

Operatives shall be fully trained and be in possession of calibrated equipment and correct PPE. All plant will be fully certified fit for use before any works proceed.
Rope and Block
Snatch Block

Hand tools
Lift Sling
Safety Sling
Jib Pole
Jib Winch
Fibre Materials
Pull Lifts
2 Ladder
3x5m 2tonne slings
1.5 tonne tirfor
2 anti-twist bars
Arm mounted bracket
Shackles

Staff Involved and Certification Required

Only authorised personnel shall be permitted to carry out works. A minimum of two work team member will be on site at all times, no lone working permitted. Where required technical training is provided to staff on specific equipment, i.e. MEWPs training.

Access and Egress Points

Only permitted access/egress points will be used. Vehicles will be parked in a suitable location agreed with the site provider and Client Rep

Interface with Public

Access will be arranged pre-work and arrangements will be conveyed to the Supervisor/PDM through Contract Management. All required third party notification / procedures will be addressed by the Supervisor/PDM. Work area will be cordoned off to prevent unauthorized access. Appropriate signage will be erected, and a drop zone will be in forced prior to any climbing.

Signage:

Signage will be erected at suitable locations at the work area.

Working hours

Normal Working Hours will be 07.00-19.00. Where an emergency Call out is required the working hours may be altered to suit the customer requirements. This timing will be agreed between the project manager and the service provider.

Hazard Identification/Risk Assessment

PPE
Safety Boots, Helmet, Eye protection, Hi Vis Clothing, Gloves, Harness, Double Lanyard, Pole Rope, Sala Block