

<b>John Henry Group</b>	<b>JHG Operations Method Statements</b>	
Reference Number: PRO-JHG-MS201	Version Number: 2	
Published Date: 24/08/2023	Next Review Date: 24/08/2024	
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## F-JHG MS12: Fibre Splicing

### Scope of Works

Method statement on Fibre Splicing

*Note: A Site-Specific POWRA shall be completed prior to commencement of works. The particular hazards associated with this task are documented in the library of Risk Assessments.*

### Sequence of Works

- Park vehicle safely.
- Ensure that a HSEQ Manual is on site, together with complete job pack
- Check and ensure that all relevant site access permits, safety cards and paperwork is available on site and correct before commencement of works.
- Check and ensure that all plant and machinery are in good working order, have up to date certification and the operators have the compliant and in date licenses
- Check that client and relevant persons are informed and agree commencement date
- Check that all required materials are available and on site when required.
- Ensure that Briefing and Toolbox talk documents are available.
- Ensure that the site has been booked in to upon attendance (site provider requirement, check job pack)
- Check site for potential hazards and note on POWRA. Rectify if possible. Mark danger area & inform crew regarding potential hazard.
- Place emergency equipment (fire extinguisher & first aid kit) in designated area.
- Select an appropriate Traffic Management plan.
- Ensure that all task specific PPE is available, has been checked and is in good working order prior to carrying out any activities.
- Ensure that all relevant and appropriate Health and Safety Barriers & traffic management signage are in place before commencement of work.
- Erect workbench or tent.
- Set up barriers around chambers to be open
- Never smoke or bring a lighted flame near a chamber entrance
- Use appropriate keys to remove chamber cover, using correct manual handling procedures.
- Test the chamber for the presence of gas using procedure as described in MS48 (Ensure Gas Detection Equipment is serviceable and calibrated)
- Turn on GDU and allow to warm up
- All tests are 2 bleeps / 2 flashes
- Break seal then drop support leg on No.5 key
- Raise cover and rest on support leg
- First gas test immediately under the cover
- Insert the roller well forward
- Operate the counterbalance arm
- Lift cover and then lower onto the roller
- Close up the support leg and counterbalance arm
- Remove cover
- Second gas test at base or water
- If no water or no need to disturb the water, then:
- Final gas test at duct mouths (if available)

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- If explosive gas found, cordon off area and keep area clear of people. Contact JHG Technical Supervisor immediately.
- Provided gas tests are negative fully remove the cover using the appropriate lifting techniques.
- If working on live fibre, ensure Client powers down. If this cannot happen, refer to Laser Safety Guidelines at all times.
- Identify cable and joint required in chamber.
- Move and secure any existing cables carefully
- Remove joint from chamber and place on workbench.
- Use guarded cable strippers (for prepping) See Method Statement MS-14 for Fibre Prep Procedures.
- 'Sin' Bin to be used for sharp cut-offs on fibre cable splicing
- Prepare fibre cable and fibers
- The fibre is to be cleaned and cleaved to the required length
- Use fusion splicing techniques for fibre
- Test fibre cable with OTDR (Optical Time Domain Reflectometer) on each fibre in each fibre in each direction recording results
- Tidy the site, removing all rubbish. Ensure the site is left in a safe and secure condition.
- Remove guarding and signing.
- Supervisor to ensure required quality level is maintained
- Text out/Call the Third-Party Site Provider when leaving the site.

#### **Plant & Equipment and Certification Required**

Splicing Machine, ODTR (Optical Time Domain Reflectometer), Cable Strippers, Cable cutters, Box Key, wooden roller & Gas Detector. All plant & Equipment must be serviced, and/or calibrated to the requirement of legislation and the manufacture. Any electrical tools required will all be 110v in line with the current regulations.

#### **Staff Involved and Certification Required**

Only trained, competent authorised personnel shall be permitted to carry out works. All Construction workers must have the required basic legislative health and safety training and Manual Handling Training.

Each crew collectively should have a combined training of:

- Sign, lighting and guarding,
- 1<sup>st</sup> aid training
- Accredited Splicer's

#### **Access and Egress Points**

Only permitted access/egress points will be used

#### **Interface with Public**

All required third party notification will be addressed by the Site Supervisor.

#### **Working hours**

Normal Working Hours will be 08.00-17.00. Where an emergency Call out is required the working hours may be altered to suit the Client requirements to be agreed by JHG Supervisor.

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**PPE**

Safety Boots, Helmet, Gloves, Hi Viz Clothing, Eye protection (as required), Ear protection (as required), Dust Mask (as required)