

John Henry Group	JHG Operations Method Statements	
Reference Number: PRO-JHG-MS201	Version Number: 2	
Published Date: 24/08/2023	Next Review Date: 24/08/2024	
Document Owner: Head of Health & Safety	Approved By: HSEQ Director	

F-JHG MS11: Blown Fibre Installation

Scope of Works

Safe Method of Blown Fibre in previously installed sub duct

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.
- Set up barriers around chambers to be open
- If winch is to be used, ensure mobile communications operating between gang members in place. (i.e. walkie talkies) if there is no response, or if there is some issue the emergency stop will be applied.
- Only experienced and trained winch operators are permitted to operate winches
- No Operative must be within the box when winching operations are taking place
- Do not smoke or bring a lighted flame near a chamber entrance
- Use appropriate keys to remove chamber cover – using correct manual handling procedures using the appropriate lifting techniques.
- Test the chamber for the presence of gas using procedure as described in F-JHG 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

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- 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)
- If explosive gas found, cordon off area and keep area clear of people. Contact JHG Technical Supervisor immediately.
- Ensure hand protection is used as a precaution for Weils Disease
- Set up blown fibre equipment in a safe, guarded area ensuring leads and hoses connecting the various pieces of equipment do not present a hazard to pedestrians.
- Ensure that all compressed air is released from the equipment and all valves are in the closed position before connecting / disconnecting air hoses.
- Only trained Operatives will operate the equipment
- If require, move and secure any existing cables / joints carefully
- Before opening any joint / blowing points, ensure there is no pressure by operating the air valve.
- Open the joints at both ends of the intended install, identify the allocated BF tube and connect to the blowing head.
- Connect to the Air Supply and check for a free air flow.
- Blowing team to be in radio contact at each end during blowing operations
- Use recommended practices and procedures to access fibers in the blown fibre unit
- Crimp a blown fibre bead on the end of the fibre bundle.
- Feed the fibre into the Blowing head.
- Increase the air pressure to approx. 10 and up to max 15 bar for the duration of the Installation.
- The speed and length of the fibre bundle must be monitored during installation.
- Far end team to notify Blowing team once cable end emerges.
- Leave enough spare fibre to access the splicing trays and form the fusion splice
- Release all pressure in the equipment before opening the blowing head
- Dispose of fibre waste using recommended procedures
- Clean rubber O rings which form the joint / blowing point seal
- Close down joint ensuring fully protected from outside elements
- Reinstall chamber cover.
- Tidy the site, removing all rubbish. Ensure the site is left in a safe and secure condition.

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Plant & Equipment and Certification Required

Blown Fibre Equipment, Winch, Box key & 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,
- 1st aid training

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 circa 08.00-17.00.

PPE

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