## Risk Assessment / Method Statement – Jointing.

### **Project Scope:**

Location issues: Heavy public presence, weather conditions, transport.

#### Detail:

- Installed before work commences:
  - o Infrastructure including chambers & ducting.
  - Joint box (footway or carriageway) containing network equipment e.g. Aggregation node (AGG node).
- Exchange Splicing activities of internal & external fibre cable joint. Internal fibre cable exiting Optical Distribution Frame (ODF) spliced to external fibre cable located within cable chamber.
- Splicing activities of joints at Aggregation node (AGG node) & intermediate joint (splitter).
- ☐ Assembly of structure within joint box (Mowbra mounting kit).
- Presentation of fibre cable(s) within joint box to Openreach specification.
- Splicing activities as per Fibre Node Configuration (FNC) included within job pack.

#### Hazard Identification and Risk Controls

Provided in the attached Risk Assessment.

#### **Environmental Protection Measure:**

Waste and spoil disposed of in the designated area or receptacle provided for waste.

# **Quality Control:**

The installation will be checked on completion by inspection.

#### Welfare:

Local knowledge of public welfare facilities beneficial. Local business welfare facilities must only be utilised if / when purchasing products or if permitted by owner/manager.

### **Emergency Procedures:**

Reference to instruction detailed within Map group (uk) vehicle pack.

## Method

- 1. Effectively segregate working area to prevent unauthorised access.
- 2. Provide clear safe, alternative pedestrian routes if work area obstructs existing footway.
- 3. Break seal & partially raise chamber cover. Complete initial atmosphere test prior to removing chamber cover (three bleeps/20 seconds per bleep).
- 4. Safely & correctly remove chamber cover in accordance with required standard. Contain open chamber, chamber cover & equipment within segregated area.
- 5. Complete thorough atmosphere tests & continuously monitor (SA002).
- 6. If water is present within chamber, perform water test to determine category e.g. pure water, sewage etc. If volume is <5m³ & is not deemed as polluted then pump from chamber into carriageway drain/gutter or onto grass verge continuously monitor. If volume is >5m³ & is deemed as polluted, stop work & contact supervisor for tank disposal (Gully emptier). Reference 'test card' within water test kit.
- 7. Exchange Conduct splicing activities internal & external fibre cable. Internal fibre cable exiting data cabinet (ODF) spliced to external fibre cable located within cable chamber.
- 8. Conduct splicing activities at Aggregation node (AGG node).
- 9. Conduct splicing activities at intermediate joint (splitter).
- 10. Install/assemble Mowbra mounting kit within joint box.
- 11. Present (dress) fibre cable(s) within joint box to Openreach specification.
- 12. Splicing activities as per Fibre Node Configuration (FNC) included within job pack.
- 13. Test integrity of connections.
- 14. Replace chamber cover (SA002).
- 15. Disassemble SLG e.g. remove barriers.

	Name	Title	Date
<b>Document Author</b>	James Alderson	H & S Advisor	03/12/2018
Reviewer	Lee Meek	H & S Manager	06/12/2018
Authorised by	Matty Carlin	Director	14/12/2018

·							
		Likelihood		Consequence			
1	Very unlikely	1 in a million of hazardous event	1	Insignificant	No injury		
2	Unlikely	1 in 100,000 of hazardous event	2	Minor	Minor injuries requiring first aid		
3	Fairly likely	1 in 10,000 of hazardous event	3	Moderate	Up to 7 days absence		
4	Likely	1 in 1,000 of hazardous event	4	Major	More than 7 days absence		
5	Very likely	1 in 100 of hazardous event	5	Catastrophic	Death		



			Who might be harmed, The Hazardous Event	Co	ontrols	Risk Rati		ing
		İ	The Consequences	İ		L	С	R
0	Carriageway / removing equipment from vehicle. Traffic	★	Technician(s). Impact from passing vehicle. Catastrophic.	1. 2.	footway.	1	5	5
0	Lifting operations e.g. carrying equipment / tooling. Manual handling	A <	Technician(s). Inappropriate manual handling. Major musculoskeletal injury.	1. 2. 3.	Manual handling training provided (induction). TBT on manual handling provided at 1-year intervals. Regular refresher training at 3 yearly intervals.	2	4	8
0	Exchange. Optical systems / Lasers.	<b>☆</b>	Technician(s). Invisible laser radiation. Major Injury.	1. 2. 3.	Training provided on fibre splicing activities/awareness (technician assessments).  Laser rated equipment provided e.g. eye shields.  Regular refresher training at 3 yearly intervals.	2	4	8
0	Spicing activities. Fibre optic shards (glass).	<i>∧</i> <b>❖</b>	Technician(s). Contact with shards (eyes/skin) Major injury.	1. 2. 3. 4.	Training provided on fibre splicing activities/awareness (technician assessments).  PPE provided e.g. eye protection, hand protection (gloves).  Sharps receptacle provided.  Regular refresher training at 3 yearly intervals.	1	4	4
0	Accessing / working on underground services. Electricity.	<i>∧</i> <b>⋄</b>	Technician(s). Contact with live conductors. Catastrophic.	1. 2.	Approved / Insulated tooling. Voltage detection equipment (pen) provided.	1	5	5
0	Accessing / working on underground services. Gas.	> <b>*</b>	Technician(s). Explosive atmosphere. Oxygen deficient atmosphere. Catastrophic.	1. 2. 3.	intervals – A9 assessment.	2	5	10
0	Accessing / working on underground services. Sharps.	A	Technician(s). Infection. Major illness.	1. 2. 3.	disease & infection - provided on induction & technician assessments (SA002).	2	4	8
0	Accessing / working on underground services. Venomous insects.		Technician(s). Stung / bitten by venomous insect. Minor injury.	1.	Training / instruction involving: Leaving undisturbed / gathering photographic evidence (insect) / seeking medical advice. Refresher training.	1	2	2

	Location / Activity Hazard		Who might be harmed, The Hazardous Event	Со	ntrols	Risk Rati		ing
			The Consequences			L	С	R
0	Accessing / working on underground services. Rodents / Vermin.	A *	Technician(s). Infection. Major Illness.	1. 2. 3.	Leptospirosis awareness training included on induction & SA002 assessment.  Leptospirosis card issued on induction. Instructed that card must be carried at all times.  TBT on disease /awareness provided at 1-year intervals.	1	5	5
0	Accessing / working on underground services. Exposed chamber.	$\triangleright$	Technician(s). General public. Falling into chamber. Major injury.	1. 2. 3. 4.	Training provided on safe removal of chamber cover / guarding exposed chamber. Technician assessments on safety underground (SA002). Gate guards / barriers provided. Sandbags issued for adverse weather conditions i.e. wind. Refresher training provided at regular intervals.	2	5	10
0	Accessing / working on underground services. Silted / flooded chamber.	A *	Technician(s). Infection. Major illness.	1. 2. 3. 4. 5.	Training / instruction provided on safety underground assessment (SA002) i.e. identification of pure & polluted water. Instruction provided on removing excess water from chamber (SA002). Water test kit provided. If chamber is 'silted' then advised to inform supervisor & request civils cleanse . If flooded & volume is $>5\mathrm{m}^3$ & is deemed as polluted, stop work & contact supervisor for tank disposal (Gully emptier).	1	4	4
0	Accessing / working on underground services. Lifting / removal of chamber cover.	A *	Technician(s). Inappropriate manual handling. Major musculoskeletal injury. Major crush injury - foot / hand.	1. 2. 3. 4. 5. 6.	Manual handling training provided (induction).  Training provided on safe removal of chamber cover (induction). Technician assessments on safety underground (SA002).  Correct chamber cover removal keys / associated equipment provided.  PPE provided e.g. steel toe capped footwear.  On site manual handling training.  Regular refresher training at 3 yearly intervals.	2	4	8
0	Accessing / working on underground services. Cable.	A A *	Technician(s). General public. Slip / trip / fall over cable. Major injury.	1. 2. 3.	Retain cable within working area (K8). SLG provided e.g. gate guards / barriers. Regular refresher training at 3 yearly intervals.	2	4	8
0 0	Underground Chamber / Confined Space working Gas Unsecured chamber	A ** *	Technician Explosive / oxygen deficient atmosphere Falls from height Drowning Catastrophic	1. 2. 3.	NC2 City & Guilds Medium/high risk confined space training Refresher confined space training every 2 years Correct confined space equipment available (tripod, winch, harness, escape set, walkie talkies) Calibrated GDU provided	3	5	10 15
0	ladders Flooding		Catastrophic injury Catastrophic	5. 6. 7.	Gas testing/GDU usage training provided in induction and at regular intervals. Utility provider phone number supplied to technician. Permit to Work completed before all confined space work	2	5	10

Location / Activity Hazard	<b>∧ *</b>	Who might be harmed, The Hazardous Event	Controls			Risk Rating		
		The Consequences			L	С	R	
Working activities in vicinity of general public. Threats & violence.	A *	Technician(s). Assault. Catastrophic.	1. 2. 3.	Threats & violence awareness included on induction. TBT on threats & violence provided at 1-year intervals. Company mobile telephone provided.	1	5	5	

Review date	Carried out by:	Major Changes
01/10/2019	Lee Meek/J. Alderson	None
09/10/2020	Lee Meek	Changed all A9 references to SA002
08/10/2021	James Alderson	None

Date of next review: 01/10/2022