

# **Project Scope:**

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

#### Detail:

- Installed before work commences;
  - Infrastructure including chambers & ducting.
  - Joint box (footway or carriageway) containing network equipment e.g. Splicing Enclosures (L0/L1/L2/L3).
- 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 Splicing Enclosures (L0/L1/L2) & intermediate joint (L3's).
- Assembly of structure within joint box (Mobra mounting kit).
- Presentation of fibre cable(s) within joint box to Netomnia/OR PIA specification.
- Splicing activities as per Fibre Allocation Records (FAR) 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 (SA002). 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 <5m<sup>3</sup> & is not deemed as polluted then pump from chamber into carriageway drain/gutter or onto grass verge continuously monitor. If volume is >5m<sup>3</sup> & 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 Splicing Enclosures (L0/L1/L2).
- 9. Conduct splicing activities at intermediate joint (L3's).
- 10. Install/assemble Mowbra mounting kit within joint box.
- 11. Present (dress) fibre cable(s) within joint box to Netomnia/OR PIA specification.
- 12. Splicing activities as per Fibre Allocation Records (FAR) included within job pack.
- 13. Test integrity of connections.
- 14. Replace chamber cover (SA002).
- 15. Disassemble SLG e.g. remove barriers.

	Name	Title	Date
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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			

5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5

• Lo	ocation / Activity	$\triangleright$	Who might be harmed,	Controls	Ris	k Ra	tin	g
• <b>H</b>	Hazard	*	The Hazardous Event				<u> </u>	
		*	The Consequences		L	С		R

•	Carriageway / removing equipment from vehicle. Traffic	<ul> <li>Technician(s).</li> <li>Impact from passing vehicle.</li> <li>Catastrophic.</li> </ul>	<ol> <li>Vehicle to be parked with side door (access to cargo hold) adjacent to the footway.</li> <li>Mandatory high-visibility clothing to be worn at all times.</li> </ol>	1	5	5
•	Lifting operations e.g. carrying equipment / tooling. Manual handling	<ul> <li>Technician(s).</li> <li>Inappropriate manual handling.</li> <li>Major musculoskeletal injury.</li> </ul>	<ol> <li>Manual handling training provided (induction).</li> <li>TBT on manual handling provided at 1-year intervals.</li> <li>Regular refresher training at 3 yearly intervals.</li> </ol>	2	4	8
•	Exchange. Optical systems / Lasers.	<ul> <li>Technician(s).</li> <li>Invisible laser radiation.</li> <li>Major Injury.</li> </ul>	<ol> <li>Training provided on fibre splicing activities/awareness.</li> <li>Laser rated equipment provided e.g. eye shields.</li> <li>Regular refresher training at 3 yearly intervals.</li> </ol>	2	4	8
•	Spicing activities. Fibre optic shards (glass).	<ul> <li>Technician(s).</li> <li>Contact with shards (eyes/skin)</li> <li>Major injury.</li> </ul>	<ol> <li>Training provided on fibre splicing activities/awareness.</li> <li>PPE provided e.g. eye protection.</li> <li>Sharps receptacle provided.</li> <li>Regular refresher training at 3 yearly intervals.</li> </ol>	1	4	4
•	Accessing / working on underground services. Electricity.	<ul> <li>Technician(s).</li> <li>Contact with live conductors.</li> <li>Catastrophic.</li> </ul>	<ol> <li>Approved / Insulated tooling.</li> <li>Voltage detection equipment (pen) provided. (only relevant if working within street furniture)</li> </ol>	1	5	5
•	Accessing / working on underground services. Gas.	<ul> <li>Technician(s).</li> <li>Explosive atmosphere.</li> <li>Oxygen deficient atmosphere.</li> <li>Catastrophic.</li> </ul>	<ol> <li>Calibrated Gas Detection Unit (GDU) provided.</li> <li>Gas testing / monitoring - GDU usage / training provided on induction &amp; at regular intervals – A9/SA002 assessment.</li> <li>Utility provider contact number available on request (supervisor).</li> </ol>	2	5	10
•	Accessing / working on underground services. Sharps.	<ul> <li>Technician(s).</li> <li>Infection.</li> <li>Major illness.</li> </ul>	<ol> <li>Technician training on surveying area / needle stick injuries / discarded sharps / disease &amp; infection - provided on induction &amp; (A9/SA002).</li> <li>Sharps hotline number provided to technician on induction &amp; at regular intervals via TBT.</li> <li>Regular refresher training on removal of chamber cover / surveying (sweep) work area via TBT / practical assessments (A9/SA002).</li> </ol>	2	4	8
•	Accessing / working on underground services. Venomous insects.	<ul> <li>Technician(s).</li> <li>Stung / bitten by venomous insect.</li> <li>Minor injury.</li> </ul>	<ol> <li>Instruction involving: Leaving undisturbed / gathering photographic evidence (insect) / seeking medical advice.</li> </ol>	1	2	2

	Location / Activity	> Who might be harmed,	Controls	Ris	k Rati	ing
(	Hazard	The Hazardous Event				
		★ The Consequences		L	С	R

•	Accessing / working on underground services. Rodents / Vermin.	A * 4	Technician(s). Infection. Major Illness.	1. 2. 3.	Leptospirosis awareness training included on induction & A9/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
•	Accessing / working on underground services. Exposed chamber.	A A & A	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 (A9/SA002). Gate guards / barriers provided. Sandbags issued for adverse weather conditions i.e. wind. Refresher training provided at regular intervals.	2	5	10
•	Accessing / working on underground services. Silted / flooded chamber.	> ↓	Technician(s). Infection. Major illness.	1. 2. 3. 4. 5.	Training / instruction provided on safety underground assessment (A9/sa002) i.e. identification of pure & polluted water. Instruction provided on removing excess water from chamber (A9/sa002). Water test kit provided. (On request) If chamber is 'silted' then advised to inform supervisor & request civils cleanse . If flooded & volume is >5m <sup>3</sup> & is deemed as polluted, stop work & contact supervisor for tank disposal (Gully emptier).	1	4	4
•	Accessing / working on underground services. Lifting / removal of chamber cover.	<b>∧</b> ↔ ↓ ↓	Technician(s). Inappropriate manual handling. Major musculoskeletal injury. Major crush injury - foot / hand.	1. 2. 3. 4. 5.	Manual handling training provided (induction). Training provided on safe removal of chamber cover (induction). Technician assessments on safety underground (A9/SA002). Correct chamber cover removal keys / associated equipment provided. PPE provided e.g. steel toe capped footwear. Regular refresher training at 3 yearly intervals.	2	4	8
•	Accessing / working on underground services. Cable.	$A A \approx 4$	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
•	Accessing underground structure / confined space entry. Atmosphere.	A * +	Technician(s). Explosive / oxygen deficient atmosphere. Catastrophic.	1. 2. 3. 4. 5. 6.	Medium / high risk confined space training provided. Confined space refresher training every 2 years. Correct confined space equipment available / provided e.g. tripod, winch, harness, escape equipment. Calibrated Gas Detection Unit (GDU) provided. Gas testing / monitoring - GDU usage / training provided on induction & at regular intervals. Utility provider contact number available on request (supervisor).	2	5	10

•	Location / Activity Hazard	A *	Who might be harmed, The Hazardous Event	Co	ontrols	Ris	k Rat	ing
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•	Accessing	≻	Technician(s).	1.	Medium / high risk confined space training provided.			
	underground structure	*	Falls from height.	2.	Confined space refresher training every 2 years.	3	5	15
	<pre>/ confined space entry.</pre>	*	Catastrophic.	3.	Correct confined space equipment available / provided e.g. tripod, winch, harness, escape equipment.			
0	Unsecure access to			4.	PPE provided e.g. safety helmet / FPE.			
	chamber (ladders).			5.				
•	Working activities in	$\blacktriangleright$	Technician(s).	1.	Threats & violence awareness included on induction.			
	vicinity of general	*	Assault.	2.	TBT on threats & violence provided at 1-year intervals.	1	5	5
	public.	▲	Catastrophic.	3.	Company mobile telephone provided.			
0	Threats & violence.							
•	Using hazardous	≻	Technician	1.	COSHH awareness within induction.			
	materials (Silicon,	*	Contact with hazardous material	2.	COSHH register updated with Safety Data Sheets and available to all technicians.	2	3	6
0	white spirit etc) Hazardous material	*	Mild irritation	3.	Suitable PPE/RPE provided and worn as per relevant SDS including goggles, gloves and dust mask. (If relevant)			
				4.	RPE Face fitting (If relevant)			

Review date	Carried out by:	Changes
01/03/2021	Paddy Lynch/JA/LM	Specific to splicing activities on Netomnia project & References to A9 changed to A9/SA002

Date of next review: 01/03/2022