Risk Assessment / Method Statement - Analysis (Testing).

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. Connectorised Block Terminal (CBT).
- Exchange Activities involving Optical Distribution Frame (ODF).
- Network deactivated at headend prior to network trace on circuit commences (analysis).
- Fibre patch lead attached (spliced) to pre-installed fibre cable.
- Launch lead attached to fibre patch lead / Optical Time-domain Reflectometer (OTDR).
- Network trace analysis.

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. Erect ladders as per MAP procedure ensuring apex and base of the ladder are secured. Utilise MEWP (Mobile Elevating Work Platform) if required. (SA001)
- 4. Break seal & partially raise chamber cover. Complete initial atmosphere test prior to removing chamber cover (three bleeps/20 seconds per bleep).
- 5. Safely & correctly remove chamber cover in accordance with required standard. Contain open chamber, chamber cover & equipment within segregated area.
- 6. Complete thorough atmosphere tests & continuously monitor (SA002).
- 7. 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.
- 8. Exchange Activities involving Optical Distribution Frame (ODF).
- 9. Request network deactivation at headend prior to network trace on circuit commences (analysis).
- 10. Attach fibre patch lead (splice) to pre-installed fibre cable.
- 11. Attach launch lead to fibre patch lead / Optical Time-domain Reflectometer (OTDR).
- 12. Perform network trace analysis.
- 13. Measure / record any faults detected on fibre cable e.g. loss.
- 14. Test integrity of connections.
- 15. Replace chamber cover (SA002).
- 16. Disassemble WAH equipment.
- 17. Disassemble SLG e.g. remove barriers.

	Name	Title	Date
Document Author	James Alderson	H & S Advisor	03/12/2019
Reviewer	Lee Meek	H & S Manager	06/12/2019
Authorised by	Matty Carlin	Director	14/12/2019

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		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	ikely 1 in 10,000 of hazardous event		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

•	Location / Activity Hazard	<i>∧</i>	Who might be harmed, The Hazardous Event	Controls	Risk I		k Rating	
O	пагаги	*	The Consequences		L	С	R	
				<u>'</u>				
•	Carriageway / removing equipment from vehicle. Traffic	A * A	Technician(s). Impact from passing vehicle. Catastrophic.	 Vehicle to be parked with side door (access to cargo hold) adjacent to the footway. Mandatory high-visibility clothing to be worn at all times. 	1	5	5	
•	Lifting operations e.g. carrying equipment / tooling. Manual handling	A * +	Technician(s). Inappropriate manual handling. Major musculoskeletal injury.	 Manual handling training provided (induction). TBT on manual handling provided at 1-year intervals. Regular refresher training at 3 yearly intervals. 	2	4	8	
•	Exchange. Optical systems / Lasers.	A * 4	Technician(s). Invisible laser radiation. Major Injury.	 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	
•	Spicing activities. Fibre optic shards (glass).	A * +	Technician(s). Contact with shards (eyes/skin) Major injury.	 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	
•	Operation of MEWP (Mobile Elevating Work Platform). Working at height.	$AA \Leftrightarrow A$	Technician(s). General public. Fall from height. Catastrophic.	 Specific training on operating MEWP / working at height. Use of FPE (specific harness / lanyard). Work area & vehicle secured with SLG below working at height activity. Refresher training at 3 yearly intervals. Regime of thorough examinations / inspections. Anemometer & training provided on utilising equipment. 	2	5	10	
•	Testing of equipment. Highest point – Apex. Working at height.	À ❖ ★	Technician(s). Fall from height. Catastrophic.	 Specific training on pole work / working at height. Work area secured with barriers below working at height activity. Use of FPE (harness / pole belt / lanyard). Regime of thorough examinations. Refresher training at 3 yearly intervals. Anemometer & training provided on utilising equipment. 	2	5	10	
•	Accessing / working on underground services. Electricity.	À ❖ ↓	Technician(s). Contact with live conductors. Catastrophic.	 Approved / Insulated tooling. Voltage detection equipment (pen) provided. 	1	5	5	

•	Location / Activity Hazard	<i>></i>	Who might be harmed, The Hazardous Event	Controls	Risk R		ating	
	Tiazaru	• 🖈	The Consequences		L	С	R	
•	Accessing / working on underground services. Gas. Accessing / working on underground services. Sharps.	* * * *	Technician(s). Explosive atmosphere. Oxygen deficient atmosphere. Catastrophic. Technician(s). Infection. Major illness.	 Calibrated Gas Detection Unit (GDU) provided. Gas testing / monitoring - GDU usage / training provided on induction & at regular intervals – SA002 assessment. Utility provider contact number available on request (supervisor). Technician training on surveying area / needle stick injuries / discarded sharps / disease & infection - provided on induction & technician assessments. Sharps hotline number provided to technician on induction & at regular intervals via TBT. Regular refresher training on removal of chamber cover / surveying (sweep) work area via TBT / practical assessments (SA002). 	2	5	8	
•	Accessing / working on underground services. Venomous insects.	<i>></i>	Technician(s). Stung / bitten by venomous insect. Minor injury.	 Training / instruction involving: Leaving undisturbed / gathering photographic evidence (insect) / seeking medical advice. Refresher training. 	1	2	2	
•	Accessing / working on underground services. Rodents / Vermin.	<i>></i>	Technician(s). Infection. Major Illness.	 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	
•	Accessing / working on underground services. Exposed chamber.	A A & A	Technician(s). General public. Falling into chamber. Major injury.	 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	
•	Accessing / working on underground services. Silted / flooded chamber.	>	Technician(s). Infection. Major illness.	 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 >5m³ & is deemed as polluted, stop work & contact supervisor for tank disposal (Gully emptier). 	1	4	4	

•	Location / Activity Hazard	> *	Who might be harmed, The Hazardous Event	Co	ntrols	Ris	sk Ra	ing
0	пагаги	X	The Consequences			L	С	R
•	Accessing / working on		Technician(s).	1.	Manual handling training provided (induction).			
0	underground services. Lifting / removal of chamber cover.	* A A	Inappropriate manual handling. Major musculoskeletal injury. Major crush injury - foot / hand.	3.4.5.6.	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
•	Accessing / working on underground services. Cable.	A A & A	Technician(s). General public. Slip / trip / fall over cable. Major injury.	1. 2. 1.	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.	> < →	Technician(s). Explosive / oxygen deficient atmosphere. Catastrophic.	1. 2. 3. 4. 5.	NC2 City & Guilds 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
•	Underground Chamber / Confined Space working	>	Technician Explosive / oxygen deficient atmosphere Falls from height	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,	2	5	10
0	Gas Unsecured chamber ladders	* * \ \	Drowning Catastrophic Catastrophic injury	4. 5.	walkie talkies) Calibrated GDU provided Gas testing/GDU usage training provided in induction and at regular intervals.	3	5	15
0	Flooding	•	Catastrophic	5. 6. 7.	Utility provider phone number supplied to technician. Permit to Work completed before all confined space work	2	5	10
•	Working activities in vicinity of general public. Threats & violence.	>	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

•	Location / Activity	➤ Who might be harmed,	Controls	Risl	k Rati	ng
C	Hazard	The Hazardous Event				
		★ The Consequences		L	С	R

Review date	Carried out by:	Major Changes
01/10/2019	Lee Meek	None
09/10/2020	Lee Meek	All A9 references changed to SA002 and A8 references changed to SA001.

Date of next review: 01/10/2021