

USSL Risk Assessment

Risk Assessment No		1	Activity		Avoiding Danger from Underground Services		Locations	Various, Office, Yard, Sites			
Assessment Undertaken by		M. Watson	Assessment Date		Jun-17		Review Date	1/6/18			
Risk Ratings											
Persons at risk (PAR)		Severity / Harm Rating (S)				Likelihood (L)					
E	Employees / Contractors	1	Negligible injury or no injury			1	Extremely unlikely to occur at any time				
P	Members of Public	2	Minor injury requiring First Aid			2	A rare combination of factors would be required for an incident to occur				
V	Visitors	3	Lost time injury			3	Could happen, but considered unlikely under normal circumstances				
C	Clients	4	Single serious injury or single death			4	Not certain, but an additional factor may result in an incident				
		5	Multiple deaths and or serious injuries			5	Almost inevitable that an incident will result - Highly likely to occur				
Tolerance rating											
15 - 25		DANGER - Task/activity should not proceed. Further control measures are to be put in place to reduce risk. When in place the level of risk should be re-assessed for adequacy before the work recommences.									
7 - 14		SIGNIFICANT RISK is attached to this task/activity. Look critically at ways of reducing the level of risk to a more tolerable level by improving existing control measures or by introducing new controls.									
1 - 6		TOLERABLE RISK - Consider if risk is "as low as reasonably practicable", If not try to reduce risk further by improving control measures. Keep under review and continue with task/activity, but with caution									
NB. Full PPE will be utilised as a matter of course during any works undertaken											
Initial Assessment No controls						Risk Mitigation Measures					
Item No	Hazard Identification	PAR	S	L	Score	Control Measures	S	L	Revised Score	Risk Acceptable	
1	Poor Underground Service Prints, Service Prints Unreadable	E	4	4	16	Stop work and contact line manager if prints are unreadable or if the prints are not understood Adequate training needed for both reading / Interpreting utility prints Ensure prints are complete i.e. sufficient details behind the prints. Quality Checking of Prints prior to breaking ground.	4	1	4	Yes	
2	Operatives Not Trained to use locating equipment	E	3	5	15	At least one operative per team to be trained in the use of CAT & GENNY. Only trained operatives to carry out this operation RASWA, Specific location Tool	3	2	6	Yes	
3	Defective locating equipment	E	3	4	12	Only use calibrated in date equipment Ensure Equipment is functioning correctly and equipment has been tested over a known source Change batteries regularly and have spares available Stop work if equipment is considered faulty	3	2	6	Yes	
4	Pedestrians/vehicles	E	3	4	12	Operatives to wear high-viz clothing and hard hats Signing & guarding to comply with Chapter 8 Where an excavation is 2 metres deep or more, substantial guard rails must be provided to prevent falls into the excavation, e.g. Heras fencing. Where there is a risk of children gaining access to a deep excavation ensure that the excavation is either backfilled, guarded with Heras fencing or securely covered.	3	2	6	Yes	
5	Shallow laid services	E	4	5	20	Clearly mark route of services identified Dig pilot holes in advance of working zone in order to clearly locate services Hand dig within 0.5 m of all services					
6	Undetectable services	E	4	4	16	Use locating equipment at regular intervals Utilise Safe Digging Practices Never excavate directly over a known identified service – Excavate to the side of a known identified service and undermine Always ensure CAT & Genny is used on all modes (Power, Radio & Genny)	3	2	6	Yes	
7	Tools striking live services Tools Striking Services once exposed	E	4	4	16	Rubber grips to be fitted to all jack hammers Mechanical tools not to be used within 0.5 m of any service. Hand dig with spades not forks or picks within 0.5m of any service Protect exposed services with Rubber mats, Split Ducts etc. Never Utilise Exposed services as Steps to exit the excavation Consider utilising Air Pick	4	1	4	Yes	
8	Exposing damaged Services	E	4	3	12	Do not attempt to repair any service Report any damage immediately to your supervisor Ensure the works area is made safe	4	1	4	Yes	
9	Collapse of the excavation	E	4	3	12	All excavations must be supported on reaching 1.2m Supporting/Shoring equipment must be used in all excavations less than 1.2m when working in poor ground Excavation Inspections must be undertaken in line with company procedures.	4	1	4	Yes	
10	Cable(s) cast/buried in concrete	E	4	4	16	In order to prevent persons being injured, either of the following should be carried out:- 1. Make the cable dead (Documented proof must be obtained from the owner/operator stating that the cable is dead) 2. Agree a safe system of work with the owner/operator prior to progressing the work	4	1	4	Yes	
11	Excavating within 3m. of a Medium, Intermediate or High Pressure pipelines, or 3 rd Party pipelines.	E	4	3	12	Identify any 3rd party marker posts and report to Line Manager Check for 3rd party pipelines on prints All teams must be in possession of the relevant documentation from the Gas Network operators if excavating in the vicinity of IP, HP pipelines If you have not been issued with a permit from the gas network operator, stop work and contact your supervisor.	4	1	4	Yes	