

USSL Risk Assessment

Risk Assessment No		14		Activity		Welding		Locations		Site/Yard Works	
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	Pedestrians & Vehicles	E,P,V,C	4	4	16	Operatives to wear high-visibility clothing and hard hats. Signing and guarding to comply with Chapter 8, Red Book. Use lookouts/banksmen to ensure that vehicles and the public are kept away from the working area.	4	1	4	Yes	
2	Explosion / fire	E,P,V,C	4	4	16	Remove all flammable materials from the area of welding operations. Operatives must wear fire resistant overalls that are reasonably free from oils and/or grease etc. Ensure a 9kg Dry Powder fire extinguisher is on site, fully charged, tested and available at all times. Smoking is not permitted in the area of the welding operations. All gas welding equipment must be fitted with flashback arrestors. Ensure that any gas cylinders are stored correctly and away from direct heat when not in use. DO NOT carry out any welding operations where flammable fume or materials are present, i.e. petrol, gas etc. Ensure that pipes being welded are free from explosive / flammable substances before commencing operations. Check hoses for damage before use, replace any damaged/perished hoses. Constantly monitor the atmosphere with a Continuous Gas Monitor.	4	1	4	Yes	
3	Fumes	E,P,V,C	4	3	12	Ensure that good general ventilation is available Use local exhaust ventilation where ventilation is poor and ensure that continuous are monitoring is carried out. Where local exhaust ventilation is insufficient, ensure that a suitable respirator is worn and that continuous air monitoring is carried out where ventilation is poor.	4	1	4	Yes	
4	Welding Flash/ Arc Eye	E,P,V,C	3	3	9	Welders must wear welding goggles/masks at all times during welding operations. Erect screens in order to ensure that members of the public, employees and people passing the site are not effected by welding flash / arc eye.	3	2	6	Yes	
5	Burns/ metal spatter	E,P.	3	3	9	Personnel operating welding equipment must wear gauntlets, flame proof overalls and safety footwear at all times during welding operations. Position screens between operations and passers by to prevent metal spatter.	3	2	6	Yes	
6	Gas leaks	E	4	4	16	Inspect the welding equipment prior to carrying out welding operations. DO NOT use welding equipment that is leaking.	4	2	8	Yes	
7	Manual handling	E	3	5	15	Where possible, all gas bottles must be moved around the site with the aid of trolleys. If the welding equipment must be lifted manually, never attempt to lift more than you can safely lift as an individual. Always gain assistance when necessary. Avoid hazardous manual handling operations so far as reasonably practicable Carry out suitable and sufficient risk assessment of the lifting operation. All staff to receive manual handling training	3	2	6	Yes	