Plant Hazard Identification Risk Assessment and Control (HIRAC)

Front

75

dB(A) Back

82

dB(A)

				(asset/plan	t no.):				A	
	Amma	ann ARX90	отз	ROPS Seria	al Number:					T
				Machine Se	erial Number:	4122028				
Competency / licences etc. require	d (onal Certifica Competency		Opera	ator Training	Assessm compet				
to operate the plant										
Plant Noise Levels -	operate the plant:		pleted at	100% throttl	e while plant is stat Noise Ac	ionary. Noise te Ivice:	esting complet	e Advice:	vith AS2012/1 and AS2012/2. Plant Dimensions and Spe	cifications
					Opera	tor	Ву	stander	Height mm	3050
Reading at operators sta	tion		8	dB(A)	BEL	wc	BE	LOW	Width mm	1822
Deeding for by stondard	akan	1200	mm abo	ve ground	85dB(/	-		dB(A)	Length mm	4760
Reading for bystanders	aken:	7000	mm fror	n plant	protection not			protection not	Operating Weight (Maximum)	9470
0		7000	111111101	n pian	operator for sho	ort durations	required b	y bystanders for the durations		3470

		Risk Ass	essment Team	
	Name	Position	Signature	Date
Rohan A	nderson	Sales & Dealer Manager – Australia / New Zealand / Pacific	B	3/8/16
Dary Sar	nadi	National Manager - Service, Technical Support and Training - Conplant	Dary Samadi	3/8/16
Paul Var	dersluis	Managing Director AAU	Noch.	3/8/16
		Auth	orised by:	
	Name	Position	Signature	Date
Rev0	Rohan Anderson	Sales & Dealer Manager – Australia / New Zealand / Pacific	and the second s	3/8/16
Rev1				
Rev 2				

MAINTENANCE & REPAIR AS operator to included in operational ass		nplete this section for assessment of Mai	intenance	and repair activ	ities on	ly – inspection	and c	asual ad	ccess by the	
Maintenance/repair being assessed	:	General service/scheduled service/bre	ak-down s	ervice	_					
No. of employees working on (or lik on) plant:	ely to be working	1-2 Service Field Technicians/Mechan	ics		Estim activi	ate of duratio	on of		< 8 hours	
Type of activity:		Scheduled frequency.	B	y Whom		Locatio	on of I	nainten	ance:	
Scheduled Daily Logbooks must be completed pri		Daily (pre-start inspection)	0	Operator	Cus	stomer Site	\boxtimes		man & dson Workshop	
operations checking items as describe and operators manual. All faults must machine must not be operated until pla repaired or assessed as safe by a con	be noted and ant has been	Pre-hire General Service	Plar	nt Mechanic	Cus	stomer Site			man & dson Workshop	
Competent Person may be any of the	following.	250 hours of operation	Plar	nt Mechanic	Cus	stomer Site			man & dson Workshop	
 Youngman & Richardson Field Youngman & Richardson Plan 		500 hours of operation	Plar	nt Mechanic	Cus	stomer Site	\boxtimes		man & dson Workshop	\boxtimes
		Major Service (1000 hour intervals)	Plar	nt Mechanic	Cus	stomer Site		Richar	man & dson Workshop	
🛛 Unscheduled.		When and If Repairs required	Field Sei	rvice Technician	Cus	stomer Site	\boxtimes		man & dson Workshop	\boxtimes
Competency requirements for maintenance: (e.g. electrical, welding, etc)	All Inspections, mair from Ammann.	ntenance and repairs shall be carried out	by a com	petent person. N	lo repair	s are to be att	empte	ed withou	ut authorisatior	1
References (Australian Standards, maintenance manuals etc):	Maintenance Manua	als, Maintenance/service records and Pla	ant Operati	ons manual.						
Isolation of energy sources:	Hydraulic system	Main battery isolator		Electrical syste	ems	Main battery is	solato	r		
	Engine isolation	Main battery isolator		Control system	าร	Main battery is	solato	r		

Chemical Name:	Use/Purpose (what does this chemical do, eg - fuel, hydraulic fluid, lubricant	Risk Phrases (as per MSDS)	(wh	Exposure risk en does this risk ex	ist?)	PPE Required	MSDS Attached
	etc)		Operation	Maintenance	Failure		
Fuchs Titan Ultralube 1540	Engine Oil	N/A			\boxtimes	Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs Titan HDD Premix Coolant	Coolant	N/A			\boxtimes	Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs Titan Gear Hyp LD 8090	Gear Oil	N/A		\boxtimes		Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs Titan Gear Syn 80140	Gear Oil	N/A		\boxtimes		Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs HVI68	Hydraulic Oil	N/A		\boxtimes		Chemical resistant gloves, eye protection, long sleave/pant	
Renolit LXM02 Grease	Grease	N/A				Chemical resistant gloves, eye protection, long sleave/pant	

RISK ASSESSMENT													
	ted with operating, refuelling, maintainin				ie item of plant. rarchy of control and score the conseque	nag and the likelihood							
	Consequence (C), Likelihood (L) and												
	the hazard does apply to the plant. Leav					sting Controls and relevant Commer	ts relating to addit	ional	contro	ols			
Section 2 Indicate wh	en the exposure is likely to occur. Mark	all that	apply	with ar	Section 5 Indicate who	Section 5 Indicate who is responsible for applying or using the controls.							
Section 3 Then indica	te the Impact (I) , Likelihood (L) and R	isk Rati	ng (R))	Section 6 Indicate the reconsidering a	esidual risk taking into account cont applicable legislation, Codes, Standa	rols being implem rds, etc.	ented	after				
SECTION 1 Hazard category and	zard category and examples SECTION 2 When does this hazard exist?			n 3 isk	SECTION 4 Controls and Comment	Resp	ection 5 onsibilities	-	ectio Residu Risk	ual			
examples	examples	1	L	R		Who	When	I	L	R			
 ☑ Arms, hands, fingers, or upper body □ Legs, feet, or lower body ☑ Hair, clothing, or jewellery 	pper body s, feet, or lower y , clothing, or ellery	3	С	н	ant/Engineering/Signage Controls Guards to moving parts Emergency stop fitted in cabin Battery isolator in lockable compartment Warning signs and decals as required on o connet, guards etc All belts and pulleys contained within close		During operation and maintenance	4	D				
	During Loading/Unloading During Transport				ocedural Controls Site traffic control procedures Exclusion zone/Maintain safe clearance to Daily prestart checks Dperator competency/training Correct PPE to be worn at all times Clothing to be buttoned up and tucked in - Ensure all guards and covers in place whe machine	- no loose articles	During operation and maintenance						

SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	Section 3 Initial Risk			SECTION 4 Controls and Comments	Section 5 Responsibilities			Section 6 Residual Risk		
examples		I	L	R		Who	When	Т	L	R	
					Transport/Loading/Unloading Controls Ensure adequate exclusion zone is in place Stay clear of roller and truck if winching	Transport Driver/ Operator	During loading/unload ing and prior to transporting				
	s required (including hierarchy of contr	ols):									
Crushing/Striking - Yes Can anyone be crushed d contact with moving parts	No ue to falling, uncontrolled or unexpected n during testing, inspection, maintenance, c	noveme leaning	ent of g or re	plant epair,	or its load, lack of capacity to slow, stop or immobilise the plant, tip thrown off, under or trapped between plant and materials or fixed s	oping or rolling ov tructures?	ver, parts of plan	t colla	apsing],	
 ➢ Plant tipping or rolling over ➢ Materials falling or being ejected from working area. ➢ Unexpected movement of plant, load or material ➢ Inability to slow, stop or immobilise plant ☐ In-running rollers/gear sets ➢ Unexpected start up or movement ➢ Between plant and materials or fixed structures ☐ Falling objects created by the plant ☐ Load falling/moving due to power loss or plant failure ☐ Other (please specify) 	 ☑ During normal operation ☑ During routine maintenance ☑ Work around moving plant ☑ During Loading/Unloading ☑ During Transport 	2	C	E	Plant/Engineering/Signage Controls • Emergency stop • Battery Isolator in lockable compartment • Parking brake • Seat belt, enclosed cabin and ROPS • Seat switch • Rotating beacon • Reversing alarm • Warning signs and decals as required • Struts/supports on bonnet • Engineered lifting and tie-down points with labels • Signage to crush zone at articulation point • Articulation locking brace • Hydraulic steering speed limit Procedural Controls • IN ADDITION TO PLANT CONTROLS - OPERATOR AND PLANT CONTROLLER MUST ENSURE THAT EFFECTIVE SITE CONTROLS ARE IN PLACE TO AVOID CRUSHING HAZARDS RELATING TO MOBILE PLANT • Daily prestart checks • Operator competency and training • Assess site risks • Correct PPE to be worn at all times • Ensure seat belt worn at all times during operation • Ensure all guards in place when operating machine • Ensure exclusion zones maintained at all times	Maintenance Personnel/ Operators Maintenance Personnel/ Operators	During operation and maintenance	3	E	M	

SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?		ection 3 itial Risk		SECTION 4 Controls and Comments	Section 5 Responsibilities		Sectior Residu Risk		ual
examples		1	L	R		Who	When	I	L	R
					 Lock out/tag out plant when carrying out maintenance Lock out/tag out plant when cleaning machine Activate parking brake before leaving operators platform De-energise/ depressurise hydraulic system prior carrying out maintenance Use chocks on rollers to prevent movement when carrying out maintenance work where there is a risk of plant moving. Avoid all driving across a slope, instead drive up and down the slope Do not exceed manufacturers recommendation for lateral tilt or gradability - see operations manual Ensure that at least two thirds of the drum width is on a stable working base Do not operate roller on damp and in poor ground conditions Ensure there are no obstacles in the path of travel Drive machine carefully on uneven ground Ensure ramp is not contaminated by dirt or oil Check clearance to overhead structures Transport/Loading/Unloading Controls Ensure the ramp is fitted securely to the truck/float Ensure angle of the ramp is not too steep Make sure ramps are suitable for the weight of the plant Ensure truck/float is levelled transversely for loading/Unloading. Operator must be comfortable with all switch board controls and their applications. Know where the Emergency Stop is. Visually inspect all controls on the switch board to ensure all controls are in line with the loading/unloading instructions in the Operation SManual. Before loading ensure the traction control switch is on. See operating manual for more detailed information. Comply with max allowed loads/overmass/dimension permits Make sure plant is tied down appropriately Ensure arm pis not contaminated by dirt or oil Ensure ramp is not contaminated by dirt or oil 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			

SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?		ectior tial R		SECTION 4 Controls and Comments	Section 5 Responsibilities		Sectior Residu Risk		ial
examples		I	L	R		Who	When	I	L	R
	s required (including hierarchy of contr	ols):								
Cutting/ Stabbing/ Punct Can anyone be cut, stabbe		moving	g plai	nt or p	arts, sharp or flying objects, work pieces ejected, work pieces disint	egrated or other	factors not men	tionec	?	
 Contact with sharp parts Parts or work pieces breaking/shearing Work pieces ejected Body or body parts caught between moving components Other (please specify) 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading During Transport 	3	С	Н	Plant/Engineering/Signage Controls • Emergency stop • Battery Isolator in lockable compartment • Guards to moving parts • Warning signs and decals as required • Hydraulic cylinders and stay on bonnet Procedural Controls • Assess site risks • Correct PPE to be worn at all times • Lock out/tag out plant when carrying out maintenance • Lock out/tag out plant when cleaning machine • Activate parking brake before leaving operators platform • De-energise/ depressurise hydraulic system prior carrying out maintenance • Use chocks on rollers to prevent movement when carrying out maintenance work where there is a risk of plant moving.	Maintenance Personnel/ Operators Maintenance Personnel/ Operators	During operation and maintenance	5	D	L
					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Additional Plant Controls	s required (including hierarchy of contr	ols):								
Shearing - Yes No Can anyone's body parts b	be cut off between two parts of the plant ar	nd a w	ork p	iece o	r structure?					

SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial R		SECTION 4 Controls and Comments	Section 5 Responsibilities			ectio esidu Risk	ial
examples		I	L	R		Who	When	I	L	R
 Body or body parts caught between moving components Body or body parts shear when passing structure. Other (please specify) 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading 	2	D	н	Plant/Engineering/Signage Controls • Emergency stop • Battery Isolator in lockable compartment • Seat belt • Rotating beacon • Reversing alarm • Warning signs and decals as required • Engineered lifting and tie-down points with labels	Maintenance Personnel/ Operators	During operation and maintenance	4	E	L
	During Transport				 Procedural Controls Daily prestart checks Correct PPE to be worn at all times All guards in place during operation. Lock out plant prior to maintenance or removing guards Qualified and competent maintenance workers only Site traffic management procedure Suitable exclusion zone Operator competency Ensure all body parts remain within ROPS/cabin Ensure bonnet stay is engaged before working in engine bay 	Maintenance Personnel/ Operators	During operation and maintenance			
					Transport/Loading/Unloading Controls Stay clear of roller and truck if winching 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Additional Plant Controls	s required (including hierarchy of contr	ols):								
Can any part of a persons	body be injured by continuous contact wit	h mov	ing pa	arts?			1	1	1	
 Contact with moving components Other (please specify) 	☐ During normal operation ⊠ During routine maintenance	3	С	н	 Plant/Engineering/Signage Controls Emergency Stop Lockable battery isolator All belts enclosed in engine bay No moving components accessible from operating position 	Maintenance Personnel/ Operators	During operation and maintenance	3	E	м

SECTION 1 Hazard category and	SECTION 2	Section 3 Initial Risk		-	SECTION 4 Controls and Comments	Section 5 Responsibilities			Section 6 Residual Risk		
examples		I	L	R		Who	When	I	L	R	
	☐ Work around moving plant				 Fixed guarding as required Signage on outside of fixed/moveable guards 						
	During Loading/Unloading				Procedural Controls	Maintenance Personnel/	During operation and				
	During Transport				 Lock out/tag out plant when carrying out maintenance Exclusion zone/Maintain safe clearance to workers Correct PPE to be worn at all times Clothing to be buttoned up and tucked in - no loose articles Ensure all guards and covers in place when operating machine Ensure hands kept away from moving parts 	Operators	maintenance				
					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting				
Electricity (Shock or burn	electrical shock or burnt due to damaged of		rly ma	aintair	ned leads or switches, water near electrical equipment, working ne	ar or contact with	live electrical col	nducto	ors, la	ick of	
By damaged or poorly maintained	During normal operation	1	С	E	Plant Controls	Maintenance Personnel/ Operators	During operation and maintenance	3	Е	м	
electrical cables or connections	During routine maintenance					oporations	maintendride				
Overloading of electrical circuits	Work around moving plant				Procedural Controls	Maintenance	During				
 Contact with or proximity to live electrical conductors By damaged or worn control devices Contact with water or condensation 	⊠ During Loading/Unloading ⊠ During Transport				 Procedural Controls Maintain clearance to over head power lines and electrical conductors as per legislative requirements - plant height is 3020mm Check site and surroundings for electrical hazards prior to operation Lock out procedures for all maintenance De-energise systems prior to maintenance 	Personnel/ Operators	operation and maintenance				

SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial Ri		SECTION 4 Controls and Comments		tion 5 sibilities	-	n 6 Ial	
examples		I	L	R		Who	When	Ι	L	R
Other (specify)					 Transport/Loading/Unloading Controls Check surroundings for electrical hazards prior to loading machine - look up and live Check plant height prior to loading Maintain clearance to overhead power lines Consider height of plant, height of ramps and height of elevated tilt tray prior to commencing 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Burns, Explosion or Fire	 s required (including hierarchy of contr Yes No an explosion of gas, vapours, liquids, dust 		ther s	ubsta	nces, triggered by plant operation?					
 By sparks, slag or hot byproducts produced by the plant Pilot light incorporated in plant Ignition of flammable material by the plant 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading 	3	D	м	Plant Controls • Hot components enclosed within engine bay • Hot components isolated/insulated from combustible fluids • 2.5kg dry chemical fire extinguisher • Emergency stop • Battery isolator in lockable compartment • Warning signs and decals as required	Maintenance Personnel/ Operators	During operation and maintenance	4	E	L
☐ Other (please specify)	During Transport				 Procedural Controls Daily prestart checks Regular/scheduled maintenance as per manufacturers recommendations Operator competency Lockout while undertaking maintenance Depressurise hydraulic system prior to maintenance Keep fire/sparks away Keep flammable goods away Site refuelling procedure 	Maintenance Personnel/ Operators	During operation and maintenance			
					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting			

SECTION 1 Hazard category and	SECTION 2 When does this hazard exist?	-	Section 3 Initial Risk		SECTION 4 Controls and Comments	Section 5 Responsibilities			Section Residua Risk		
examples		I	L	R		Who	When	I	L	R	
Additional Plant Controls	s required (including hierarchy of contr	ols):									
Slips/ Trips/ Falls - Yes Can anyone using the plan	No It or in the vicinity of the plant, slip, trip or t	fall due	e to th	ne wor	king environment or other factors?						
☐ Uneven or slippery work or access surfaces ☐ Housekeeping issues	 ☑ During normal operation ☑ During routine maintenance 	3	С	н	Plant ControlsPlant access steps and handrailsErgonomic cabin entry	Maintenance Personnel/ Operators	During operation and maintenance	3	E	м	
caused by the plant Lack of safe access systems and handrails Lack of guardrails to prevent access to/falls into hazardous areas of the plant Insufficient structural strength of access system/platform	 ✓ Work around moving plant ✓ During Loading/Unloading ☐ During Transport . 				 Procedural Controls Ensure plant and steps/walkways are clean Pre-start checks Regular maintenance and repairs Maintain 3 points of contact at all times while climbing Face steps/ladders when climbing Use plant access steps/handrails provided Do not jump from machine Do not stand on bonnet or drums Wear appropriate protective footwear 	Maintenance Personnel/ Operators	During operation and maintenance				
System/platform ∑ Other (please specify) - Poor housekeeping					 Transport/Loading/Unloading Controls Ensure plant and steps/walkways are clean Maintain 3 points of contact at all times while climbing Face steps/ladders when climbing Use plant access steps/handrails provided Do not jump from machine Use grip painted walkways on the truck deck Wear appropriate protective footwear Exclusion zone while loading/unloading as required Do not load/unload on roadway unless traffic controls are in place 	Transport Driver/ Operator	During loading/unload ing and prior to transporting				

SECTION 1 Hazard category and examples SECTION 2 When does this hazard exist?		Section 3 Initial Risk			SECTION 4 Controls and Comments	Section 5 Responsibilities		Section 6 Residual Risk		lal
examples	examples		L	R		Who	When	Ι	L	R
High Pressure Fluid - Ye Can anyone come into cor	s No ntact with fluids under high pressure, due to	o failu	re or	misus	e of the plant?			<u>.</u>		
 Due to a component failure Due to expected wear and tear Due to misuse or incorrect operation 	 During normal operation During routine maintenance Work around moving plant 	3	D	M	 Plant Controls Rated and pressure tested hydraulic systems Hydraulic hoses and lines to AS 3791 Hydraulic lines protected from snagging/mechanical damage by location and guarding Hydraulic hazards contained within enclosed engine bay 	Maintenance Personnel/ Operators	During operation and maintenance	5	D	L
 ☐ Stored pressure or incorrect isolation/inability to isolate systems ☐Release of pressure caused by shut 	During Loading/Unloading During Transport				 Procedural Controls Daily pre-start checks - check condition of hydraulic lines Lock out/Tag out procedure for all maintenance De-pressurise prior to working on hydraulic system Wear appropriate PPE for task 	Maintenance Personnel/ Operators	During operation and maintenance			
down/isolation ☐ Other (please specify)					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Working environment an			r post	ure, e	excessive effort, poor workplace or plant design causing mental or p	hysical stress, la	ck of considerati	on for	hum	an
 Inadequate lighting of operators station Glare from artificial or natural light Controls not marked/clearly labelled Inconsistent function of similar controls 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading During Transport 				Plant Controls • Enclosed cabin isolates operator from noise • Tinted windows • Noise testing • Ergonomic cabin layout • Suitable operators seat and station • All controls labelled • Engine bay set up to allow access to commonly serviced/access items • Air conditioning in cabin	Maintenance Personnel/ Operators	During operation and maintenance			

Hazard category and	SECTION 1 Hazard category and examples When does this hazard exist?		Section 3 Initial Risk		SECTION 4 Controls and Comments		Section 5 Responsibilities			n 6 ual
examples			L	R		Who	When	Ι	L	R
 ☐ Size, height or layout not suitable ☐ Other (please specify) 					 Operator/Procedural Controls Follow appropriate manual handling and ergonomic techniques Hearing protection for workers within 5m - 106dB Use appropriate access equipment and manual aids for servicing Use appropriate tools for servicing Major service to be performed in workshop environment 	Maintenance Personnel/ Operators	During operation and maintenance			
					Transport/Loading/Unloading Controls •Follow appropriate manual handling techniques •Hearing protection for workers within 5m - 106dB	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Additional Plant Control	s required (including hierarchy of cont	trols):								
Other Hazards – Yes		trols):								
Other Hazards – Yes	No	2	D	Н	Plant Controls • Exhaust exits externally/away from closed cabin • Filtered fresh air to cabin	Maintenance Personnel/ Operators	During operation and maintenance	5	D	L
Other Hazards – Yes Can anyone be injured or Chemicals Toxic Gases Vapours Fumes Other (please	No suffer ill health from exposure to:	-	D	н	 Exhaust exits externally/away from closed cabin 	Personnel/	operation and	5	D	L
Other Hazards – Yes Can anyone be injured or Chemicals Toxic Gases Vapours Fumes	No suffer ill health from exposure to: During normal operation During routine maintenance	-	D	н	 Exhaust exits externally/away from closed cabin 	Personnel/	operation and	5	D	L

SECTION 1 Hazard category and	SECTION 2 When does this hazard exist?	-	ection iitial Ri		SECTION 4 Controls and Comments	Sec Respo	Section 6 Residual Risk			
examples this account in the account of the second of the		I	L	R		Who	When	I	L	R
Environmental Aspects a Can the physical environm	and Impacts - Yes No nent be harmed or damaged due to the pl	lant sys	stems	or sub	stances?				-	
Does the plant produce waste or by- products that require	During normal operation	3	D	D M	 Environmental controls All used fluids to be collected and returned to workshop where they will be disposed of in accordance with local legislation Used filters to be returned to workshop and disposed of by waste management contractor No service work to be completed within 15 meters of a water course Absorbort matting and drip trave to be used where 	Maintenance Personnel/ Operators	During operation and maintenance	5	D	L
treatment Does the plant produce registered waste products	Work around moving plant					Maintenance Personnel/ Operators	During operation and maintenance			
Operation causes nuisance, eg noise, dust, vibration etc	During Transport				environmental hazard exists	Transport Driver/ Operator	During loading/unloadi ng and prior to transporting			
waste products ⊠ Operation causes nuisance, eg noise, dust, vibration etc	During Loading/Unloading During Transport s required (including hierarchy of cont	trols):			 Absorbent matting and drip trays to be used where 	Transport Driver/	During loading/unloadi ng and prior to			



Operator Acknowledgement I have reviewed the Plant Risk Assessment and have had the opportunity to comment and make changes as I thought necessary							
	sessment and have had the opportu	unity to comment and make changes as	I thought necessary	0			
Name:	Position:	Signature:	Date:	Company:			



		L	ikelihood	('L' in ris	k columr	1)
Impact ('I	' in risk column)	A Almost Certain	B Likely	C Moderate	D Unlikely	E Rare
1 – Catastrophic	(Multiple fatalities or serious injuries)	E	E	Е	E	н
2 - Major	(Death/permanent disability)	E	E	Е	н	Н
3 - Moderate	(Medical treatment)	E	н	Н	Μ	М
4 – Minor	(First aid)	н	н	М	L	L
5 - Insignificant	(No treatment required)	н	М	L	L	L

	Risk Key
E - Extreme	Immediate response. Discontinue work, isolate and act. Not acceptable as a residual risk
H - High	Respond quickly. Hazard must be managed before work can proceed Not acceptable as a residual risk
M - Medium	Respond in a reasonable timeframe to rectify. Consider additional control measures where practical
L - Low	Low Priority. Review control measures periodically and reassess risk