

Plant Hazard Identification Risk Assessment and Control (HIRAC)

PLANT INFOR	MATION		
Plant item:		Plant identification details (asset/plant no.):	
	Ammann AP240T3	ROPS Serial Number:	
		Machine Serial Number:	4302895
Competency / licences etc. required	National Certificate of Competency	Operator Training	Assessment of competency
to operate the plant:		\boxtimes	

Attention:

This hazard identification and risk assessment has been developed by Ammann with reference to the hazards and risks associated with the item of plant only. Procedural controls referenced within this document are based on Manufactures maintenance and operation procedures. Where this item of plant is hired or sold it is the responsibility of the PCBU with management or control of the plant to assess how the nature of hazards and risks associated with the operating environment impact on the content of this document.



Plant Noise Levels - Noise level testing completed at 100% throttle while plant is stationary. Noise testing completed in compliance with AS2012/1 and AS2012/2.

OEM testing	and certifica	tion	Co	nplant nois	se level testing	g	Noise Advice: Operator	Noise Advice: Bystander	Plant Dimensions and Specifications					
									Height mm	3200				
Reading at o	perators stat	ion			84	dB(A)	BELOW	BELOW	Width mm	2265				
Peopling for l	Reading for bystanders taken:		1200 mm above ground				85dB(A) Hearing	85dB(A)	Length mm	5020				
Reading for bystanders taken:		7000 mm from plant		ant	protection not required by operator for short durations	Hearing protection not required by bystanders for	Operating Weight (Maximum)	20,000						
Left	77	dB(A)	Rig	ght	77	dB(A)	(less than 8 hours)	short durations (less than 8 hours)						
Front	76	dB(A)	Ba	ck	70	dB(A)								



		Risk Ass	essment Team	
	Name	Position	Signature	Date
Rohan Ar	nderson	Sales & Dealer Manager – Australia / New Zealand / Pacific	B	3/8/16
Dary San	nadi	National Manager - Service, Technical Support and Training - Conplant	Dary Samadi	3/8/16
Paul Van	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	-	3/8/16
Rev1				
Rev 2				



Maintenance/repair being assessed	:	General service/scheduled service/b	eak-down s	service							
No. of employees working on (or lik on) plant:	ely to be working	1-2 Service Field Technicians/Mecha	nics		Estir activ	nate of duratio	on of		< 8 hours		
Type of activity:		Scheduled frequency.	В	By Whom	Location of maintenance:						
Scheduled Daily Logbooks must be completed pr		Daily (pre-start inspection)		Operator	С	ustomer Site		Owne	r Workshop		
perations checking items as described in the logbook nd operators manual. All faults must be noted and hachine must not be operated until plant has been epaired or assessed as safe by a competent person.		Pre-hire General Service	Pre-hire General Service Plant Mechanic Customer Site							Þ	
		250 hours of operation	Pla	nt Mechanic	С	ustomer Site		Owne	r Workshop	\boxtimes	
Owner Field Service TechniciOwner Plant Mechanic	an	500 hours of operation		nt Mechanic	Customer Site		\boxtimes	Owne	r Workshop	\triangleright	
		Major Service (1000 hour intervals)	Pla	nt Mechanic	С	ustomer Site		Owne	r Workshop	D	
🛛 Unscheduled.		When and If Repairs required	Field Se	ervice Technician	С	ustomer Site		Owne	r Workshop	\triangleright	
Competency requirements for maintenance: (e.g. electrical, welding, etc)	All Inspections, main from Owner.	ntenance and repairs shall be carried o	ut by a com	petent person. No	o repa	irs are to be at	empte	d withou	t authorisatio	n	
References (Australian Standards, maintenance manuals etc):	Maintenance Manua	als, Maintenance/service records and P	lant Operat	ions manual.							
Isolation of energy sources:	Hydraulic system	Main battery isolator		Electrical system	ms	Main battery i	solator				
	Engine isolation	Main battery isolator		Control systems	s	Main battery i	solator				



		or assessment of fluids and other chemicals encillary processes (eg, truck wash, water disp		thin the plant sys	stems or used	within the process th	at the
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				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				Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs Titan Gear Syn 80140	Gear Oil	N/A				Chemical resistant gloves, eye protection, long sleave/pant	
Fuchs Titan TO430	Gear Oil	N/A				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	



Fire Extinguisher – Pyrochem Dry Chemical Extinguishing agent	N/A			\boxtimes	Eye protection, gloves	
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RISK ASSE	SSMENT									
	e risks associated with operating, refuelling, maintaining and working around the item of p									
List the potential hazard, does it need controls, what controls are needed, consider the hierarchy of control and score the consequence and the likelihood.										
Refer to Ap	pendix 1 for Consequence (C), Likelihood (L) and Risk Rating (R) descriptions.									
Section 1	Put an ${\bf X}$ if the hazard does apply to the plant. Leave blank if the hazard does not apply to the plant.	Section 4	Write the existing Controls and relevant Comments relating to additional controls required							
Section 2	Indicate when the exposure is likely to occur. Mark all that apply with an ${\bf X}$	Section 5	Indicate who is responsible for applying or using the controls.							
Section 3	Then indicate the Impact (I), Likelihood (L) and Risk Rating (R)	Section 6	Indicate the residual risk taking into account controls being implemented after considering applicable legislation, Codes, Standards, etc.							

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	I	L	R	
Entanglement - Yes No. Can anyone's hair, clothing		er mat	erial	s becc	me entangled with moving parts of plant, or materials in motion?						
 ➢ Arms, hands, fingers, or upper body ☐ Legs, feet, or lower body ➢ Hair, clothing, or jewellery 	or upper body Legs, feet, or lower body Hair, clothing, or	3	С	н	 Plant/Engineering/Signage Controls Emergency Stop Lockable battery isolator All belts and pulleys enclosed in engine bay Fixed guarding Signage on outside of fixed/moveable guards 	Maintenance Personnel/ Operators	During operation and maintenance	3	E	м	
					 Procedural Controls Lock out for maintenance Ensure all guards are securely fitted Daily prestart checks Operator competency/training 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 	Maintenance Personnel/ Operators	During operation and maintenance				



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection tial Ri	-	SECTION 4 Controls and Comments	Section 5 Responsibilities		Sectio Resid Ris		ial
examples		I	L	R		Who	When	Ι	L	R
					machine Ensure hands kept away from moving parts Transport/Loading/Unloading Controls					
Crushing/Striking - Yes Can anyone be crushed du		novem			or its load, lack of capacity to slow, stop or immobilise the plant, tip		ver, parts of plan	t colla	psing	 ,
 contact with moving parts ➢ 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 	during testing, inspection, maintenance, c ☑ During normal operation ☑ During routine maintenance ☑ Work around moving plant ☑ During Loading/Unloading ☑ During Transport	leanin _s	g or re	E	thrown off, under or trapped between plant and materials or fixed s Plant/Engineering/Signage Controls Emergency Stop Lockable battery isolator ROPS, FOPS, enclosed cabin and seatbelt Marked lifting points Marked tie down points Marked tow points Park brake Hydrostatic braking 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 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	1	E	H



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial Ri		SECTION 4 Controls and Comments	Section 5 Responsibilities			ectio esid Risl	ual
		I	L	R		Who	When	I	L	R
due to power loss or plant failure ☐ Other (please specify)					 Understand stopping and turning distances Lock out/tag out plant when carrying out maintenance Activate parking brake before leaving operators platform 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 Drive slowly when turning sharply - maintain recommended operating speeds 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 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
					 Make sure plant is tied down appropriately Ensure ramp is not contaminated by dirt or oil 					
Additional Plant Controls required (including hierarchy of controls): Cutting/ Stabbing/ Puncturing - Yes No Can anyone be cut, stabbed or punctured by coming in contact with moving plant or parts, sharp or flying objects, work pieces ejected, work pieces disintegrated or other factors not mentioned?										
Contact with sharp parts	During normal operation	3	С	Н	Plant/Engineering/Signage Controls Emergency Stop 	Maintenance Personnel/ Operators	During operation and maintenance	3	E	М



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial Ri	-	SECTION 4 Controls and Comments		tion 5 sibilities		ectior esidu Risk	al
oxampioo		Т	L	R		Who	When	I	L	R
 Parts or work pieces breaking/shearing Work pieces ejected Movement of plant or components Body or body parts caught between moving components Other (please 	 During routine maintenance Work around moving plant During Loading/Unloading During Transport 				 Lockable battery isolator All fans enclosed in engine bay Fixed guarding as required Signage on outside of fixed/moveable guards Procedural Controls Correct PPE to be worn at all times Lock out/tag out plant when carrying out maintenance Activate parking brake before leaving operators platform 	Maintenance Personnel/ Operators	During operation and maintenance			
specify)					 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. Assess site risks 					
					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Additional Plant Controls Shearing - Yes No	s required (including hierarchy of contr	ols):								_
Can anyone's body parts b	be cut off between two parts of the plant ar	nd a w	ork pi	ece o	r structure?					
Body or body parts caught between	During normal operation	2	С	E	Plant/Engineering/Signage Controls Enclosed cabin and seatbelt 	Maintenance Personnel/ Operators	During operation and maintenance	2	Е	н
moving components ⊠ Body or body parts shear when passing	 ☑ During routine maintenance ☑ Work around moving plant 				 Emergency Stop Lockable battery isolator All belts and pulleys enclosed in engine bay 					
structure. Other (please specify)	☑ During Loading/Unloading				 Fixed guarding Signage on outside of fixed/moveable guards 					
	During Transport				 Procedural Controls Ensure all body parts remain within ROPS/ FOPS/cabin area Daily prestart checks 	Maintenance Personnel/ Operators	During operation and maintenance			



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial R		SECTION 4 Controls and Comments	Section 5 Responsibilities			ectior esidu Risk	ial
oxampioo		I	L	R		Who	When	-	L	R
					 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 Maintain suitable exclusion zone Operator competency Ensure bonnet stay is engaged before working in engine bay 					
					 Transport/Loading/Unloading Controls Stay clear of roller and truck while winching Ensure suitable exclusion zone 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Friction - Yes No Can any part of a persons	body be injured by continuous contact wit	h movi	ing pa	arts?						
 Contact with moving components Other (please specify) 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading 	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 Fixed guarding as required Signage on outside of fixed/moveable guards 	Maintenance Personnel/ Operators	During operation and maintenance	3	E	м
	During Transport				 Procedural Controls 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 	Maintenance Personnel/ Operators	During operation and maintenance			



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial Ri		SECTION 4 Controls and Comments		Section 5 Responsibilities		ectior esidu Risk	ial
examples		I	L	R		Who	When	Т	L	R
					Transport/Loading/Unloading Controls					
Electricity (Shock or burr	electrical shock or burnt due to damaged of		rly ma	aintain	ed leads or switches, water near electrical equipment, working near	r or contact with	live electrical co	nduct	ors, la	ack of
 By damaged or poorly maintained electrical cables or connections Overloading of electrical circuits Contact with or proximity to live electrical conductors By damaged or worn control devices Contact with water or condensation Other (specify) 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading During Transport 	1	C	E	Plant Controls Procedural Controls • PLANT CONTROLLER AND OPERATOR ARE RESPONSIBLE FOR IMPLEMENTING SAFE SYSTEMS OF WORK TO AVOID PROXIMITY WITH LIVE CONDUCTORS • Maintain clearance to over head power lines and electrical conductors as per legislative requirements. • Check site and surroundings for electrical hazards prior to operation • Lock out procedures for all maintenance • De-energise systems prior to maintenance	Maintenance Personnel/ Operators Maintenance Personnel/ Operators	During operation and maintenance	1	E	H



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			ectior esidu Risk	ial	
	examples the dots and hazard onset		L	R		Who	When	T	L	R	
					 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 Plan route of travel taking into account total height of load 		Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Burns, Explosion or Fire Can anyone be injured by	- Yes No an explosion of gas, vapours, liquids, dust	ts or of	ther s	ubsta	nces, triggered by plant operation?						
By sparks, slag or hot byproducts produced by the plant	☐ During normal operation ⊠ During routine maintenance	3	D	м	 Plant Controls Flammable/Combustible fluids isolated from hot components Fire extinguisher fitted Combustible fluids/hot components isolated from operators 	Maintenance Personnel/ Operators	During operation and maintenance	2	E	L	
Pilot light incorporated in plant	Work around moving plant				 Emergency exit (left and right cabin doors) 						
 ☑ Ignition of flammable material by the plant ☐ Other (please 	During Loading/Unloading				Procedural ControlsEnsure both cabin doors are unlocked prior to operating	Maintenance Personnel/	During operation and				
specify)	During Transport				 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 Shut down engine prior to refuelling 	Operators	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		Sect Resi Ri		ual
examples	examples when does this hazard exist?		L	R		Who	When	I	L	R
					Transport/Loading/Unloading Controls	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Slips/ Trips/ Falls - Yes	s required (including hierarchy of contr No nt or in the vicinity of the plant, slip, trip or		a to th		king anvironment or other factors?					
 Uneven or slippery work or access surfaces Housekeeping issues caused by the plant 	During normal operation During routine maintenance Work around moving plant	3	C	H	Plant Controls Access system compliant with AS3868	Maintenance Personnel/ Operators	During operation and maintenance	3	E	M
 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 Other (please 	 ☑ 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 Wear appropriate protective footwear 	Maintenance Personnel/ Operators	During operation and maintenance			
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 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection tial Ri		SECTION 4 Controls and Comments		ion 5 sibilities	Sect Res R		al
examples		I	L	R		Who	When	I	L	R
					place					
Additional Plant Controls	s required (including hierarchy of contr	ols):								
High Pressure Fluid - Yes Can anyone come into con	s No tact with fluids under high pressure, due t	o failu	re or r	nisus	e of the plant?					
 Due to a component failure Due to expected wear and tear Due to misuse or incorrect operation Stored pressure or incorrect isolation/inability to isolate systems Release of pressure caused by shut 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading During Transport 	3	D	M	 Plant Controls Lockable battery isolator Emergency stop Hydraulic lines isolated from operators cabin Hydraulic lines protected from snagging/mechanical damage by location and guarding Procedural Controls Daily pre-start checks - check condition of hydraulic lines Scheduled maintenance program as per manufacturers recommendations Lock out/Tag out procedure for all maintenance 	Maintenance Personnel/ Operators Maintenance Personnel/ Operators	During operation and maintenance	4	Ш	L
down/isolation ☐ Other (please specify)					 Isolate prior to working on hydraulic system Wear appropriate PPE for task Transport/Loading/Unloading Controls	Transport Driver/	During loading/unload			
						Operator	ing and prior to transporting			
Additional Plant Controls	s required (including hierarchy of contr	ols):								
Working environment an Can anyone be injured due	d ergonomics - Yes No to seating design, repetitive body moven	nent or	. post	ure, e	xcessive effort, poor workplace or plant design causing mental or p	hysical stress, la	ck of considerati	on for	huma	an

behaviour, poor lighting or others factors not mentioned?



SECTION 1 Hazard category and examples	SECTION 2 When does this hazard exist?	-	ection itial R		SECTION 4 Controls and Comments		ion 5 sibilities		ectio esidu Risk	ial
examples		Т	L	R		Who	When	I	L	R
 Inadequate lighting of operators station Glare from artificial or natural light Controls not marked/clearly labelled 	 During normal operation During routine maintenance Work around moving plant During Loading/Unloading 	3	С	н	 Plant Controls Enclosed cabin isolate operator from noise Noise testing Ergonomic cabin layout Suitable operators seat and station All controls labelled 	Maintenance Personnel/ Operators	During operation and maintenance	3	E	M
 Inconsistent function of similar controls Size, height or layout not suitable Other (please specify) 	During Transport				 Operator/Procedural Controls Follow appropriate manual handling and ergonomic techniques Use appropriate access equipment and manual aids for servicing Use appropriate tools for servicing Major service to be performed in workshop environment Hearing protection must be worn by operator and bystanders 	Maintenance Personnel/ Operators	During operation and maintenance			
					Transport/Loading/Unloading Controls •Follow appropriate manual handling techniques	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Other Hazards – Yes	s required (including hierarchy of contro No suffer ill health from exposure to:	ols):		I						
☐ Chemicals ☐ Toxic Gases	☑ During normal operation	2	С	E	Plant Controls •	Maintenance Personnel/ Operators	During operation and maintenance	4	D	L
☐ Vapours ⊠ Fumes	During routine maintenance Work around moving plant					Operators	maintenance			<u> </u>
☐ Other (please specify)	 ☑ Work around moving plant ☑ During Loading/Unloading 				Operator/Procedural Controls Never operate in an enclosed/confined space without 	Maintenance Personnel/	During operation and			



Hazard category and	SECTION 2 When does this hazard exist?					Section 5 Responsibilities		Section Reside Rise		al
examples		I	L	R		Who	When	I	L	
					appropriate ventilation	Operators	maintenance			
	During Transport				 Transport/Loading/Unloading Controls Never operate in an enclosed/confined space without appropriate ventilation 	Transport Driver/ Operator	During loading/unload ing and prior to transporting			
Environmental Accesto a	nd Imposto Voo No									
Can the physical environm	ent be harmed or damaged due to the p	-	1			Maintenance	During			
Can the physical environm	ent be harmed or damaged due to the p ⊠ During normal operation	blant sys	c c	or sub: H	 stances? Environmental controls All used fluids to be collected and returned to workshop where they will be disposed of in accordance with local legislation 	Maintenance Personnel/ Operators	During operation and maintenance	4	D	L
 Does the plant produce waste or by- products that require treatment Does the plant 	ent be harmed or damaged due to the p	-	1		 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 	Personnel/	operation and	4	D	L
Can the physical environmed Does the plant produce waste or by- products that require treatment	ent be harmed or damaged due to the p	-	1		 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 	Personnel/ Operators Maintenance	operation and maintenance During	4	D	L



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

		L	ikelihood	('L' in ris	sk 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)	Е	Е	Е	Е	Н
2 - Major	(Death/permanent disability)	Е	E	E	н	Н
3 - Moderate	(Medical treatment)	E	н	Н	М	Μ
4 – Minor	(First aid)	н	н	М	L	L
5 - Insignificant	(No treatment required)	Н	М	L	L	L