DH

Diversified Sales & HireABN 11 637 196 073.
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SAFETY MANAGEMENT SYSTEM

Plant and Equipment Risk Assessment

	Diversified Sales & Hire		Lighting Tow Towable	er LED Diesel	Approved By:	GM	
Equipment Location:	Equipment: Equipment: Equipment: Signature: Sig						
			Various				
Hazard			(Refer to ri	ek Hierarchy of		atment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
brushes, rags o	nair, clothing, gloves, necktie, jewellery, cleaning or other materials become entangled with moving		HIGH	☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration	Obey all warning of Wear appropriate Ensure plant is swinding any mainter of machine must be maintenance, do not components Ensure guards are	decals clothing vitched off before nance e running whilst doing not lean or reach into e there are rotating or	
Crushing				•			•
 Materia Uncontrol load? Lack of immobi The pla Parts of Coming testing, Being the control 	al falling off the plant? rolled or unexpected movement of the plant or its f capacity for the plant to be slowed, stopped or flized? ant tipping or rolling over? f the plant collapsing? g in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repair hrown off or under the plant? rapped between the plant and materials or fixed res?	S No	НІСН	☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration	Obey all warning of Ensure all towing arrangements are and on firm ground Take care when continuous vehicle Ensure correct lifts lifting points are useliant Ensure all persons	decals and support engaged correctly d oupling plant to a ing equipment and sed when moving s are clear of the area moved / transported	LOW

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	7				
Cutting, Stabbing and Puncturing					
 Can anyone be cut, stabbed or punctured due to? Coming in contact with sharp or flying objects? Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors? 	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all guards and fixtures are in place and operate correctly Ensure guards cover the entire width of rotating parts Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Shearing					
Can anyone's body parts be: Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all guards and fixtures are in place and operate correctly Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Friction			•		
Can anyone be burnt, gain abrasions etc. due to: Contact with moving parts or surfaces of the plant, or material handled by the plant?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into engine area with motor running If machine must be running whilst doing maintenance, do not lean or reach into engine area where there are rotating or hot components Ensure all guards and fixtures are in place and operate correctly Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW

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Striking	1				
Can anyone be struck by moving objects due to: Uncontrolled or unexpected movement of the plant or material handled by the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? Mobility of the plant? Other factors?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Use appropriate prop/s to support elevated mechanisms when conducting inspection or maintenance Ensure travel of moving plant/vehicle (forward or reversing) is free of all personnel Use spotter in restricted areas Ensure all loads are placed and secured within tray of vehicle while transporting e.g. hoses, tools, moils Ensure exclusion zone in and around vehicle while loaded using mechanical aids (e.g. skid steer loader, excavator) Take care when coupling plant to a towing vehicle Ensure all persons are clear of the area when a unit is being moved / transported or coupled to a towing vehicle	LOW
High Pressure Fluid					
Can anyone come into contact with? Fluids under high pressure in normal use, in the instance of plant failure?	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all protective covers are in place and safety devices are working Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Electrical					
 Can anyone be injured by electrical shock or burnt due to: The plant contacting live electrical conductors? Plant working close to electrical conductors? Overload of electrical circuits? Damaged or poorly maintenance electrical leads or cables? Damaged electrical switches? Water near electrical equipment? 	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Have power disconnected before loading or unloading where wiring may be contacted Ensure cabinet enclosing 'electricals' is in place and intact	LOW

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Lack of isolation procedures?Other factors		Ensure 'electricals' are maintained and always checked by a qualified

Lack of isolation procedures?Other factorsExplosion				Ensure 'electricals' are maintained and always checked by a qualified electrician Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☐ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Ensure safety devices e.g. safety valve and motor overload are fitted and working to minimise pressure buildup Shut down engine and allow to cool before refueling	LOW
Slipping, tripping and Falling Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: Uneven or slippery work surfaces? Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up? Obstacles being placed in the vicinity of the plant? Other factors?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☐ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Check regularly for oil leaks and ensure o-rings are in place and secure Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
High Temperature Can anyone: Come into contact with objects at high temperature? Come into contact with hot fluids? Be injured by fire?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Ensure all guards are in place that protect hot surfaces Allow motor and other components to cool before servicing Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Temperature and Thermal Comfort Can anyone suffer ill-health due to: Exposure to high or low temperatures? Failure of air conditioning equipment?	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Be aware of body responses to adverse/ extreme weather conditions (hot/cold) Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW

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Suffocation]				
Can anyone be suffocated due to: Lack of oxygen, or atmospheric contamination?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant Only operate where adequate ventilation is available SOP must be followed when checks and services are conducted Appropriate PPE must be worn	LOW
Ergonomics					
Can anyone be injured due to: Poorly designed seating? Repetitive body movements? Constrained body posture or the need for excessive effort? Design deficiency causing physical or personal stress? Inadequate or poorly placed lighting? Lack of consideration given to human error or human behavior? Mismatch of the plant with human traits and natural limitations? Other factors?	⊠ Yes □ No	MEDIUM	⊠ Elimination □ Substitution □ Isolation ⊠ Engineering ☑ Administration □ PPE	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Do not operate beyond operators personal capabilities Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps etc. Observe and use proper manual handling techniques	LOW
Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Take care when coupling plant to a vehicle Ensure equipment, attachments and sundry items are securely tied down Apply/use chocks if necessary Ensure liquids are prevented from spillage Ensure all persons are clear of the area when a unit is being moved / transported or coupled to a towing vehicle	LOW

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SAFETY MANAGEMENT SYSTEM **Plant and Equipment Risk Assessment** Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear) Operational MEDIUM LOW Can anyone be injured by this equipment ☐ Elimination Follow manufacturers' instructions ☐ No ☐ Substitution Obey all warning decals ☐ Isolation Position and operate in well-ventilated □ Engineering area to prevent inhaling vapours or ☑ PPE fumes Ensure gears, levers, switches etc. are engaged/disengaged appropriately before starting/operating Ensure all guards and fixtures are in place Ensure appropriate PPEs are used (e.g. eye protection, hearing and footwear) Ensure plant/vehicle is switched off before making any adjustments Ensure hold-to-run controls provided for machine are working properly Do not operate on steep slope Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts

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Other Hazards						
Can anyone be injured or suffer ill-health from exposure to: Chemicals? Toxic gases or vapors? Fumes? Dust? Noise? Vibration? Radiation? Other Factors?		⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Position and operate in well-ventilated area to prevent inhaling vapours or fumes Ensure sound cabinet is in place Wear appropriate PPE e.g. ear protection Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Maintain plant/vehicle in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to equipment	LOW
Further Comments:	A Specific Risk Assessment on site mu					
	This equipment must only be drive	n/operated by c	ompetent pers	sons and hold	ers of the appropriate license	
Checklist:	 ⊠ Manufacturers' manuals referenced ⊠ Copy kept in Master Hires' Risk Management 	nent File				

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Hazard / Risk Matrix

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2
Risk Management Code of Practice 2007

Step 1 Determine Likelihood – What is the possibility of the event happening?

	Criteria	Description	
Almost certain	Expected in most circumstances.	Event is a common problem	
Likely	Will probably occur in most circumstances.	Event is known to have occurred at this site or it has happened	
Possible Might occur at some time		Event could occur at the site or I've heard of it happening	
Unlikely Could occur at some time		Event is not likely to occur at the site or I have not heard of it happening	
Rare	May occur only in exceptional circumstances	Event is practically impossible.	

Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description	
Insignificant	No injuries	
Minor First aid treatment only; spillage contained at site.		
Moderate	Medical treatment; spillage contained but with outside help.	
Major	Extensive injuries; loss of production	
Catastrophic	Death; toxic release of chemicals	

Step 3 Determine the risk score

	CONSEQUENCE					
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic	
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute	
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute	
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute	
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute	
Rare	1 Low	1 Low	2 Medium	3 High	3 High	

Step 4 Record risk score against the job sequence steps

(Note - Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.
3 H: High	Highest management decision is required urgently.
2 M: Medium	Follow management instructions.
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.

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