

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores			Lig	hting Tower -	Solar Pod	Approved By:	Ben Pooley	
Equipment Location:		Equ	ipment:				Signature:	anterley.	
		Mar Det	nufacturer ails	Glo	be Power				
Hazard			Action Required Yes/No	t	Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Treati Report Form)	ment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
Entanglement									
brushes, rags or	air, clothing, gloves, necktie, jewellery, cleaning other materials become entangled with moving t, or materials in motion?		☐ Yes ⊠ No			☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE			
Crushing						· <u> </u>			
 Uncontr load? Lack of immobil The plant Parts of Coming testing, Being the 	falling off the plant? olled or unexpected movement of the plant or it capacity for the plant to be slowed, stopped or ized? nt tipping or rolling over? the plant collapsing? in contact with moving parts of the plant during inspection, use, maintenance, cleaning or repairown off or under the plant? apped between the plant and materials or fixed es?	ir?	⊠ Yes □ No		HIGH	⊠ Elimination □ Substitution ☑ Isolation □ Engineering ☑ Administration ☑ PPE	 Obey all warnin Ensure travel or plant/vehicle (for is clear of all periods) Use spotter in reference are tied down are tied down are tied down are to towing vehicle chains Wear appropria Ensure exclusion around vehicle towing vehicle Deploy stabilised or during service 	f moving privard or reversing) prisonnel pestricted areas f and attachments pecurely before as securely coupled pe including safety atte footwear put zone in and while coupling to per legs when setup pe or maintenance put firm level ground	MEDIUM

Authorised by: General Manager - People & Safety Created: 20/06/2025 Reviewed: 20/06/2025 Issue No: 1 Page 1 of 8



Plant and Equipment Risk Assessment

				Operator to ensure no external personnel place body parts near extendable lighting mast	
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	HIGH	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	 Follow manufacturers' instructions Obey all warning decals Ensure trailer is coupled/uncoupled on level ground Operators to remain vigilant throughout task and avoid pinch points. Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear) When not in use apply/use chocks if necessary 	MEDIUM
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	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE	 Follow manufacturers' instructions Obey all warning decals Ensure trailer is coupled/uncoupled on level ground Keep body parts away from shear points when expanding solar panels and raising mast Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear) Guarding and covers used at all times Operators to remain vigilant throughout task and avoid pinch points 	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		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		

Authorised by: General Manager - People & Safety Created: 20/06/2025 Reviewed: 20/06/2025 Issue No: 1 Page 2 of 8



Plant and Equipment Risk Assessment

Striking]				
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	ACUTE	 ☑ 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 except operator/driver Use spotter in restricted areas Ensure all loads are secured while transporting Ensure exclusion zone in and around vehicle while loaded using mechanical aids 	HIGH
High Pressure Fluid					
Can anyone come into contact with? Fluids under high pressure in normal use, in the instance of plant failure?	☐ Yes ⊠ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
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? Lack of isolation procedures? Other factors	⊠ Yes □ No	HIGH	⊠ Elimination □ Substitution □ Isolation □ Engineering ☑ Administration □ PPE	 Follow manufacturers' instructions Obey all warning decals Ensure all overhead/underground wiring or other obstructions have been located prior to commencing work Have power disconnected where wiring may be contacted Battery should not be immersed in water. Keep flames and sparks away from batteries. Do not operate/set up the unit in a dangerous area or under hazardous weather conditions such 	LOW



Plant and Equipment Risk Assessment

Explosion 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	MEDIUM	⊠ Elimination □ Substitution ☑ Isolation □ Engineering ☑ Administration ☑ PPE	as strong wind, storm or overhead power lines Spotters are required when working within 5 metres of the minimum approach distance of any live electrical apparatus. Any encroach within the minimum approach distances must only occur if the following provisions have been met - 1. The machine is designed to work within the minimum approach distances 2. Permission has been granted by the electricity company and 3. Safe systems of work have been documented and approved. Sparks when welding in area can cause batteries to explode if base is not properly covered. Do not smoke on or around equipment. Battery maintenance to be done by qualified Service Technician. Lighting towers should not be placed around hot works areas. Fire extinguishers should be placed	Low
Slipping, tripping and Falling				in vicinity of lighting tower.	
Can anyone using the plant, or in the vicinity of the plant, slip, trip		MEDIUM	☐ Elimination	Follow manufacturers' instructions	LOW
or fall due to:	□ No		☐ Substitution☐ Isolation	Obey all warning decals	
 Uneven or slippery work surfaces? 			☑ Engineering☑ Administration	Wear appropriate footwear	
 Poor housekeeping, such as shavings in the vicinity of the 			⊠ PPE	Use steps provided when getting	
plant, spillage not cleaned up?				in/on plant/vehicle	
Obstacles being placed in the vicinity of the plant?Other factors?				Always observe 'three points of contact' if need to get on/in	
2	1			contact ii need to get on/in	

Authorised by: General Manager - People & Safety Created: 20/06/2025 Reviewed: 20/06/2025 Issue No: 1 Page 4 of 8



Plant and Equipment Risk Assessment

			 plant/vehicle Maintain cleanliness of plant/vehicle Personnel to remain vigilant and aware when around lighting tower. 	
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
☐ Yes ☑ No		☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE		
	1			
⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☐ Administration ☐ PPE	 Follow manufacturers' instructions Obey all warning decal 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
	☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☑ No	No Yes No Yes No Yes No Ves Low	No Substitution Isolation Engineering Administration PPE Yes Elimination Substitution Isolation Engineering Administration PPE Elimination Substitution Isolation Engineering Administration PPE Elimination Substitution Isolation Engineering Administration	Maintain cleanliness of plant/vehicle Personnel to remain vigilant and aware when around lighting tower. Yes

Authorised by: General Manager - People & Safety Created: 20/06/2025 Reviewed: 20/06/2025 Issue No: 1 Page 5 of 8



Plant and Equipment Risk Assessment

Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	ACUTE	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	 Follow manufacturers' instructions Obey all warning decals Ensure equipment, attachments and sundry items are securely tied down Lighting towers should only be placed on firm level surface Apply/use brakes and chocks as necessary Ensure all trailer lights are connected and working properly 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 trailer is coupled properly to towing vehicle correctly and all pins/clips and lights and solar panels are secure Ensure tyre tread is good on all tyres and inflated to correct pressure Ensure load is evenly and correctly positioned on trailer 	HIGH
Operational			T		
Can anyone be injured by this equipment	⊠ Yes □ No	HIGH	☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☑ PPE	 Follow manufacturers' instructions Obey all warning decals Ensure plant/equipment is on stable ground and clear of obstructions Ensure gears, levers, switches etc. are engaged/disengaged appropriately Ensure all guards and fixtures are in place and secure Ensure appropriate PPEs are used 	MEDIUM



Plant and Equipment Risk Assessment

					 (e.g. eye protection, hearing and footwear) Ensure hold-to-run controls provided for machine are working properly Do not operate on steep slope Ensure area is free of environmental hazards such as vegetation build up, snakes, spiders etc. Ensure handles and other adjustable parts are set right for the operator 	
Other Hazards Can anyone be injured of the Chemicals? Toxic gases or value of the Chemicals? Fumes? Dust? Noise? Vibration? Radiation? Other Factors?	or suffer ill-health from exposure to:	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	 Follow manufacturers' instructions Obey all warning decals Check for overhead/underground utilities (gas, water, electrical) before operation 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 This equipment must only be dri		•		ders of the appropriate license	
Checklist:	 Manufacturers' manuals referenced ⊆ Copy kept in Master Hires' Risk Manag 	ement File				

Authorised by: General Manager - People & Safety Created: 20/06/2025 Reviewed: 20/06/2025 Issue No: 1 Page 7 of 8



Plant and Equipment Risk Assessment

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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