

PLANT HAZARD IDENTIFICATION & RISK ASSESSMENT PR-ECO LED LIGHTING TOWER

Company Name: Address:	PR Power Pty Ltd 41 Production Ave, Molendina	r QLD 4214	Registration: PRA NO.: Issue Date: Review Date:	01	3				
Plant Item: Stock Number:	Lighting Tower – PR-ECO	Model: <u>LED 6x160W</u> Assessment Purpos		issis/VIN: _	Owner:	PR Power	Engine Numb	er:	* }~ +©1
Assessment Con Assistant As		Positic	on: <u>QLD Bran</u> on(s):	ich Managei	r	Date:	08/08/2023	Signature :	Michael Rapkins
Project Na	me:			Location:					

cense Cl	ass applicable to this vehicle, pl	ant or other equipment.	
Class	Туре	Description	Yes
С	Car licence	Covers vehicles up to 4.5 tonnes gross vehicle mass (GVM). GVM is the maximum recommended weight a vehicle can be when loaded. The licence allows the holder to drive cars, utilities, vans, some light trucks, car-based motor tricycles, tractors and implements such as graders, vehicles that seat up to 12 adults, including the driver	
LR	Light Rigid	Covers a rigid vehicle with a GVM of more than 4.5 tonnes up to 8 tonnes. Any towed trailer must not weigh more than 9 tonnes GVM. This class also includes vehicles with a GVM up to 8 tonnes which carry more than 12 adults including the driver. A holder of a LR licence is also permitted to drive vehicles in class C	
MR	Medium Rigid	Covers a rigid vehicle with 2 axles and a GVM of more than 8 tonnes. Any towed trailer must not weigh more than 9 tonnes GVM. A holder of a MR licence is also permitted to drive vehicles in class LR and lower.	
HR	Heavy Rigid	Covers a rigid vehicle with 3 or more axles and a GVM of more than 8 tonnes. Any towed trailer must not weigh more than 9 tonnes GVM. This class also includes articulated buses. A holder of an HR licence is also permitted to drive vehicles in class MR and lower.	
HC	Heavy Combination	Covers heavy combination vehicles like a prime mover towing a semi-trailer, or rigid vehicles towing a trailer with a GVM of more than 9 tonnes. A holder of an HC licence is also permitted to drive vehicles in class HR and lower.	
MC	Multi-Combination	Covers multi-combination vehicles like road trains and B-double vehicles. A holder of an MC licence is also permitted to drive vehicles in class HC and lower.	
HRW	High Risk Work		
VOC	Verification of Competency		
LB	Front-end loader backhoe		
LE	Excavator		
LL	Front-end loader		
LP	Scraper		
LR	Road roller		
LG	Grader		
LS	Skid steer loader		
LZ	Dozer		

Highest Protection Hierarchy of Controls 1. Elimination 2. Substitution 3. Isolation 4. Engineering 5. Administration 6.							
	1. Elimination		3. Isolation	4. Engineering		6.	PPE



☑ Operators Manual ☐ Inspection Handbook ☐ Pre-Start Checklist ☐ SWMS ☐ SOP's ☐ Other:

Maintenance and repair assessment	
Maintenance / repair being assessed:	Yes, records available
Number of people working on (or likely to be working on) plant:	Depending on type of work – minimum 1

Type of activity	Scheduled frequer	ісу	Inspection by	Location of maintenance			
Scheduled.	Lighting Tower inspections done daily		Operator	🛛 On site 🗌 Off site			
As per manufacturers Handbook – inspections to be carried out:	Lighting Tower – refer manufacturers recomm	Competent & Authorised Person	🛛 On site 🖾 Off site				
				🗌 On site 🗌 Off site			
				🗌 On site 🗌 Off site			
				🗌 On site 🗌 Off site			
Unscheduled	When and if it breaks down		·				
Competency requirements for mainte	nance: (e.g. electrical, welding, etc.)	Only trained, qualified,	competent and authorised pers	sons may repair Lighting Tower			
Mechanical Technician		Mechanical Technician					
Electrical Technician		Electrical Engineer	Electrical Engineer				

Highest P	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE

PRPOWER

PLANT HAZARD IDENTIFICATION & RISK ASSESSMENT

Energ	gy Types	Specific examples				RIS	K MATRIX						
Gravity	у	Falling objects, falls of people				CON	SEQUENCE						
Kinetic	c energy	Projectiles, penetrating objects	Level	Insignificant		Minor	Moderate	Major	r	c	atastrophic		
Mecha	anical energy	Caught between, struck by, struck against	Human Resources	First Aid injury		Medical Treatment	Single LTI	Multiple	LTI		Fatality		
Hazaro	dous substances	Skin contact, inhalation	Operational	Loss = 1 hr produc	tion Lo:	ss = 6 hrs production	Loss = 12 hrs production	Loss = 3 – 7 producti			r than 1 week loss production		
Extrem	nes of Temperature	Effects of heat or cold	Property Damage	<\$4,999		\$5,000 - \$49,000	\$50,000 - \$499,999				>\$1,000,000		
Radiat	tion	Ultraviolet, arc flashes, microwaves, lasers	Financial	>\$1,000		>\$10,000	>\$100,000	>\$1,000,	000	>	\$10,000,000		
Sound	l	Hearing damage	Environment	Nil or Low impac	ct	Low impact	Moderate impact	Major im	pact	S	Severe impact		
Electri	cal	Electric shock, burns	Community	Isolated complain	nt S	Sporadic complaints	Serious Rate of complaints	Increasing I complai			vel of interest from community		
Vibrati	on	Hand, whole body	Legal	Minor complianc	e Lo	ow level compliance breach	Regulation breach	Major brog	ach of		gulation/legal breach		
Stress	i	Unrealistic workload and expectations	Security	Violation of intern policies & procedu		inor criminal offence	Low intensity civil unrest	Significant c	riminal	Majo	criminal offence		
	1: Consider how I	In many instances, other hazards present ikely a risk is encountered, and what migh	t happen.				Ind develop effective arrying out this step) LIKELIHO		,		chy of risk control		
сс	LEVEL OF		ES OF EVENT OCCURRING come of an exposure to the risk?			Almost certain	Likely	Possible	Possible Unli		Rare		
1	Catastrophic	Fatality or permanent disability; toxi environmental impact; loss of facilities		release of chemicals, long-term or irre		E (25)	E (24)	E (22)	E	(19)	H (15)		
2	Major	Long-term illness or serious injury; s property damage; loss of production; h	erious but reversible er	nvironmental impac	ct; major	E (23)	E (21)	E (18)	H	(14)	M (10)		
3	Moderate	Medical treatment requiring up to seve significant property damage; med – hig		rsible environmenta	l impact;	E (20)	H (17)	H (13)	М	(9)	M (6)		
4	Minor	Minor injury requiring First-Aid; minor r damage; low-med. \$ loss	eversible environmenta	al impact; moderate	property	H (16)	H (12)	M (8)	L	(5)	L (3)		
5	Insignificant	No injuries or first aid only; minor prop loss	erty damage or environ	mental nuisance; ve	ery low \$	M (11)	M (7)	L (4)	L	(2)	L (1)		
		LIKELIHOOD OF EVENT OCCI	JRRING			DET	ERMINATION OF	RISK CONTRO		NS			
	How likely is it that an exposure will occur?				RISK I	LEVEL (OUTCON	IE)	ACTION REQUIRED					
Α	Almost cer					(from matrix)		(refer to the hi			,		
B	Likely	Event will probably occur in n			E	(EXTREME)		- Immediate acti					
C	Possible	Event might occur at some tir			н	(HIGH)	0	Highest management decision required urgently.					
D	Unlikely	Event could occur at some tir			M	(MEDIUM)		nagement instru		<u> </u>			
Е	Rare	Event may occur only in exce	puonal circumstance	es	L	(LOW)	I nese risk	These risks may not require			ition - monitor.		

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



PLANT HAZARD IDENTIFICATION & RISK ASSESSMENT

Section 1	Section 2	RISK associated		Secti Risk S	core	CONTROL MEASURES Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,			L RISK	
Hazard Category and	Where and when might this	with the Hazard	Refer to the Risk Matrix					fer to t Mat	he Risk rix	
Examples	hazard exist?		L	L C R		etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	Control
Competency: Xes] No – Operator must prove veri	fication of competer	ncy,	qualifi	cations (certification / license etc.) prior to operating this item of plant				
Operator Competency	During routine maintenance During normal operation	Injuries including fracture; Crush Trauma injuries and other multiple injuries;	С	2	E18	 Only persons who have completed training and have been assessed as competent in the operation of the plant are to operate. If there is not a competent person available for operation of this item of plant, then only persons who are supervised by a competent person can operate this item of plant This machine is not to be operated by persons under the influence of drugs and/or alcohol. 	E	2	M10	Admin
	During transport - towing	Collision between vehicle / trailer and other vehicles / pedestrians	С	2	E18	 Tow vehicle driver to be licenced to drive tow vehicle and trained and competent to tow trailer. Pre-start check of tow vehicle and trailer. Driver must adhere to road rules and drive to conditions when towing trailer. 	E	2	M10	Admin
	During transport – forklift/crane	Dropped machine Crush injury	с	1	E22	 Forklift operator must have forklift licence. Crane operator must have correct HRWL for crane type being used to lift lighting tower. 	Е	1	H15	Admin
Access and Egress	During normal operation	Collisions between vehicles, pedestrians and objects; Crush Trauma injuries and other musculoskeletal injuries; Impact injuries	С	2	E18	 Position Lighting Tower in an area away from other site pedestrian and vehicle/plant traffic. Where possible provide physical barriers between Lighting Tower and site pedestrian and vehicle/plant traffic. Access road ways and pedestrian walkways clearly delineated and signposted Lighting Tower must be used in accordance with manufacturers operating instructions. Seek approval from relevant authority before positioning lighting tower for work on roads. 	E	2	M10	Admin
Other (please specify)										

Highest	Protection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



PLANT HAZARD IDENTIFICATION & RISK ASSESSMENT

Section 1	Section 2	RISK associated	Section 4 Risk Score Refer to the Risk Matrix L C		Score	CONTROL MEASURES Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,		RESIDUAL RISK				
Hazard Category and	Where and when might this	with the Hazard						Refer to the Risk Matrix				
Examples	hazard exist?					etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R			
<i>Entanglement or being</i> plant. or materials in moti		No - Can anyone	e's ha	air, clo	thing, glo	oves, necktie, jewellery, rags and other materials become er	itangl	ed wi	th moving	g parts		
Arms, hands, fingers, or upper body		Injuries including fracture Crush Trauma injuries and other multiple injuries;	с	2	E18	 Plant Controls –Lighting tower: Emergency stop button Lockable battery Isolator for prevention of unplanned starts Safety decals as per manufacturer's specifications Inspection doors 	E	2	M10	Admii PPE		
Legs, feet, or lower body						Permanent fan guarding Lockable type battery isolator						
Hair, clothing or jewellery		Scalping Degloving	С	2	E18	Operator / Procedural Controls:	Е	2	M10	Admi		
☐ Isolation of energy source	During setup and operation During repair and maintenance					 Complete daily prestart checklist prior to commencing work Ensure equipment is operated by trained, qualified, competent and authorised personnel Operate plant in accordance with the manufacturers operating and maintenance manual Check to ensure emergency stop is working before using the lighting tower. Correct PPE to be worn – refer operating manual Keep area clear around the machine when raising and lowering the mast. Ensure all covers/doors are closed and secured while machine is in operation. Keep clear of all moving parts on the generator and engine. Do not wear loose items of clothing and jewellery and contain long hair. Ensure lighting tower is switched off, battery and control panel isolated when not in use. Only trained, qualified, competent and authorised personnel to complete repair works Review Lock Out / Tag Out procedure prior to performing advanced maintenance on lighting tower 						
Other (please specify)												

Highest P	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2	RISK associated		Section 4 Risk Score Refer to the Risk		CONTROL MEASURES Consider number of people required to carry out a task,			AL RISK	
Hazard Category and Examples	Where and when might this hazard exist?	with the Hazard		Mat		training, skills and competencies required, licences, permits, etc., environmental controls, plant, tools and equipment, safety		Mat		Control
			L	С	R	equipment and PPE, etc.		С	R	
	irts of plant collapsing, contact w					novement of plant or its load, lack of capacity to slow, stop o tion, maintenance, cleaning or repair, thrown off, under or tra				
Exposed edges (falling)						Plant Controls – Lighting tower: • Emergency stop button				
Tools being dropped	-					Stabiliser legs				
Material falling or		Damage to				AMOSS – Automatic Mast Operating Safety System Mast fastening strap				
being ejected from working area		equipment Damage to other	С	2	E18	Lifting point, forklift lifting pockets, tie down points Jockey wheel	Е	2	M19	Eng Admir
-	-	property or people Damage to				Safety decals as per manufacturer's specifications				
Plant Overturning		equipment Damage to other	С	2	E18	Operator / Procedural Controls:	Е	2	M10	Eng Admir
	-	property or people				• Ensure equipment is operated by trained, qualified, competent and authorised personnel				
						Lighting tower must be maintained in accordance with				
						manufacturers recommendations and checked before each use.				
						Operate lighting tower in accordance with the manufacturers				
	During the second					user manual				
	During transport During set-up and operation					During transport the Mast Fastening Strap must be fully engaged and stabilisers in upright position.				
	During repair and maintenance					When transporting lighting tower, never exceed maximum load weight of crane/forklift/tow vehicle.				
						Secure trailer on truck using tie down points if being				
						transported by truck. Use safety chains when towing. • Ensure jockey wheel is down and locked in before unhitching trailer form townshields.				
movement of loads						trailer from tow vehicle. • Ensure the lighting tower is positioned on a solid, level surface				
						and secured from movement.Ensure area is clear of overhead obstructions before raising				
						mast.				
						• The lighting tower must be levelled and stabiliser legs extended before raising the mast.				
						Stabiliser legs must remain extended at all times while the mast is extended.				
						• Exclusion zone to be established where lighting tower is				
						operating.				
						 Chock wheels to prevent trailer movement Workers to wear safety boots and safety helmet. 				
Pinch points	During setup and pack up Durin repair and maintenance	Minor crush injury	С	3	H13	Be aware of pinch points when adjusting lights and extending stabiliser legs	D	3	M9	Admi

Highest	Protection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2			Section 4 Risk Score		CONTROL MEASURES	RE	SIDU/	AL RISK				
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	fer to Ma	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Refer to the Risk Matrix			Control			
Examples	hazard exist?		L C R		R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	Control			
<i>Cutting / Stabbing / Puncturing:</i> 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 flying parts or work pieces						• Ensure equipment is operated by trained, qualified, competent and authorised personnel							
Parts or work pieces breaking (disintegrating)						• Operate plant in accordance with the manufacturers operating and maintenance manual							
Work pieces ejected	-					• Check to ensure emergency stop is working before using the lighting tower.		<u> </u>					
Movement of plant or components						Correct PPE to be worn – refer operating manual							
Isolation of energy sources	During operation During repair and maintenance					• Keep area clear around the machine when raising and lowering the mast.							
Body or body parts caught between moving components		Cuts, abrasions Amputations	С	2	E18	 Ensure all covers/doors are closed and secured while machine is in operation. Keep clear of all moving parts on the generator and engine. Ensure lighting tower is switched off and control panel isolated when not in use. Only trained, qualified, competent and authorised personnel to complete repair works 	E	2	M10	Eng Admin PPE			
Other (please specify)													

Section 1	Section 2			Secti Risk S	on 4 Score	CONTROL MEASURES	RE	SIDUA	L RISK				
Hazard Category and	Where and when might this	RISK associated with the Hazard	Ref	Refer to the Risk Matrix		Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Ret	er to tl Matr	ne Risk ix	Control			
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.		С	R				
Shearing: 🗌 Yes 🛛 No - Can anyone's body parts be cut off between two parts of the plant and a work piece or structure?													
Body or body parts caught between moving components													
Isolation of energy sources													
Body or body parts shear when passing structure													
Other (please specify)													

Highest F	Protection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2	RISK associated		Section 4 Risk Score Refer to the Risk		CONTROL MEASURES				
Hazard Category and	Where and when might this	with the Hazard	Re	efer to Ma		Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to t Mat	he Risk rix	Control
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	
Striking: ⊠ Yes □ No	- Can anyone be struck by mov	ing objects due to p	lant	or sur	faces of	the plant, or material handled by plant operation?				
Uncontrolled or unexpected movement of plant		Major impact trauma; Injuries including fracture; Other musculoskeletal injuries;	с	2	E18	Plant Controls – Lighting tower: • Emergency stop button • Stabiliser legs • Mast fastening strap • Lifting point, forklift lifting pockets, tie down points • Jockey wheel • Control developed and an antifications	Е	2	M10	Admin
☐ Uncontrolled or unexpected movement of components or material (warning sirens required) ☐ Moving objects due to Parts or work pieces breaking (disintegrating)	-					 Safety decals as per manufacturer's specifications Operator / Procedural Controls: Ensure equipment is operated by trained, qualified, competent and authorised personnel Lighting tower must be maintained in accordance with manufacturers recommendations and checked before each 				
Work materials protruding into travel path of Plant.						 use. Operate lighting tower in accordance with the manufacturers user manual During transport the Mast Eastening Strap must be fully 				
☐ Normal movement of plant	During transport and operation During repair and maintenance					 During transport the Mast Fastening Strap must be fully engaged and stabilisers in upright position. When transporting lighting tower, never exceed maximum load weight of crane/forklift/tow vehicle. Secure trailer on truck using tie down points if being transported by truck. Use safety chains when towing lighting tower. Ensure jockey wheel is down and locked in before unhitching trailer from tow vehicle. Ensure the lighting tower is positioned on a level surface and secured from movement during operation. The lighting tower must be levelled and stabiliser legs extended before raising the mast. Stabiliser legs must remain extended at all times while the mast is extended. Exclusion zone to be established where lighting tower is operating. Chock wheels to prevent trailer movement. Workers to wear safety boots and safety helmet. 				
Isolation of energy sources										
Other (please specify)										

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2		Section 4 Risk Score			CONTROL MEASURES	RE	SIDU	AL RISK	
Hazard Category and	Where and when might this hazard exist?	RISK associated with the Hazard	Re	fer to Mat	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Refer to the Risk Matrix			Control
Examples	hazard exist?		L	L C R		etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	
Explosion / Fire: 🛛 Ye	2									
Ignition of flammable						Plant Controls - Screener:				
atmosphere initiated by the plant						Safety decals as per manufacturer's specifications				
Ignition of flammable						Operator / Procedural Controls:				
atmosphere initiated by material						Complete daily prestart checklist prior to commencing work Ensure lighting tower is operated by trained, qualified,				
Ignition of flammable						competent and authorised personnel				
material by the plant						Keep engine area clean and free from oil and spills. Correct PRE to be worn. Befor to applicable SW/MS or				
⊠ Fire risk (flammables) / Emergency Equipment	During operation During routine maintenance During refuelling	Burns to operator; Fumes from fire; Damage to equipment	D	D 2 H14		 Correct PPE to be worn – Refer to applicable SWMS or perform a risk assessment Do not refuel near open flames or ignition sources. Refuel in well ventilated area. Switch lighting tower off and allow to cool before refuelling. Use spouts or funnels to avoid spillages. Clean up fuel spill immediately. Only trained, qualified, competent and authorised personnel to complete repair works Emergency training of Operators including spill management. A B (E) extinguisher fitted to plant. Instructions, including Emergency Site Procedures given at induction time. Workers trained in the use of fire extinguisher 		3	M9	Admin
Other (please specify)										

	Highest Protection										
Hiera	archy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE			



Section 1	Section 2			Secti Risk S		CONTROL MEASURES	RE	SIDUA	L RISK	
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	fer to f Mat	he Risk rix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Refer to the Risk Matrix			Control
Examples	hazard exist?		LCR		R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.		С	R	
Slips / Trips / Falls: 🖂	Yes 🔲 No - Can anyone using	the plant or in the v	vicinit	y of th	ne plant,	slip, trip or fall due to the working environment or other facto	rs?			
Uneven or slippery work or access surfaces		Injuries including fracture Other musculoskeletal injuries;	с	3	H13	Plant Controls – Lighting tower: • Safety decals as per manufacturer's specifications Operator / Procedural Controls: • Evaluate lighting towar area from others	D	3	M9	lsol Admin PPE
Housekeeping hazards produced by the plant	During normal operation	Bruises and lacerations	С	3	H13	 Exclude lighting tower area from others. Lighting tower to be positioned on firm level surface in accordance with manufacturers instructions. 	Е	3	M6	lsol Admin PPE
Inadequate work platforms (size, location, fall protection)	During repair and maintenance Pre-start inspections					 Ensure lighting tower is operated by trained, qualified, competent and authorised personnel Ensure lighting tower is switched off and inspection doors locked when not in use. 				
Lack of guardrails or fall protection						 Only trained, qualified, competent and authorised personnel to complete repair works Clean up any liquid spills immediately Ensure non-slip safety footwear is worn. 				
Other (please specify)										

		rotection						Lowest
ſ	Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2		Section 4 Risk Score CONTRO			CONTROL MEASURES	RE	SIDUA	AL RISK	
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	efer to Mat	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to t Mat	he Risk rix	Control
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	
High Pressure Fluid: 🗵	🛛 Yes 🔲 No - Can anyone con	ne into contact with t	fluids	unde	er high pr	essure, due to failure or misuse of the plant?				
Contact with fluids under pressure due to failure						Plant Controls – Lighting tower: Inspection covers Radiator overflow bottle				
Contact with fluids under pressure due to misuse		Burns Slip, trip, fall	с	3	H13	 Safety decals as per manufacturer's specifications Operator / Procedural Controls: Complete daily prestart checklist prior to commencing work Ensure lighting tower is operated by trained, qualified, competent and authorised personnel 	E	3	M6	Admin PPE
Striking due to severed high pressure hoses / couplings	During normal operation During routine maintenance					 Ensure lighting tower is operated by trained, qualified, competent and authorised personnel Lighting tower must be operated in accordance with manufacturers operating instructions. Correct PPE to be worn – Refer to operating manual, applicable SWMS or perform a risk assessment Ensure lighting tower is switched off and inspection doors locked when not in use. Ensure lighting tower is allowed to cool after use before being packed up, inspected or maintained. Only trained, qualified, competent and authorised personnel to complete repair works. Do not open radiator cap or cover while the engine is hot or running. Clean up spills immediately 				
Other (please specify)										

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2		Section 4 Risk Score			CONTROL MEASURES	RE	SIDUA	AL RISK		
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	efer to Ma	the Ris trix	sk	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to t Mat	the Risk rix	Control
Examples	hazard exist?		L	С	R		etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	Contro
Plant rolling over / thro	ugh limits: ⊠ Yes 🔲 No - Ca	n this item of plant	roll o	r tip o	ver du	ue to	o operating over specified working limits?				
⊠ Roll over hazards	During setup – extending mast During transport	Crush injury Property damage	С	2	E1	8	 Plant Controls – Lighting tower: Emergency stop button Stabiliser legs AMOSS – Automatic Mast Operating Safety System Mast fastening strap Lifting point, forklift lifting pockets Jockey wheel Safety decals as per manufacturer's specifications Operator / Procedural Controls: Ensure equipment is operated by trained, qualified, competent and authorised personnel Lighting tower must be maintained in accordance with manufacturers recommendations and checked before each use. Transport and operate lighting tower in accordance with the manufacturers user manual. During transport, the Mast Fastening Strap must be fully engaged and stabilisers must be in upright position. During transport, never exceed maximum load weight of crane/forklift/tow vehicle. Use safety chains when towing. Ensure jockey wheel is down and locked in before unhitching trailer from tow vehicle. Ensure area is clear of overhead obstructions before raising mast. The lighting tower must be levelled and stabiliser legs extended before raising the mast. Stabiliser legs must remain extended at all times while the mast is extended. Exclusion zone to be established where lighting tower is operating. Workers to wear safety boots and safety helmet. 	E	2	M10	Eng Admir PPE
Upper and lower limits											
Other (please specify)											

Highest Protection											
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE				



Section 1	Section 2		l	Section 4 Risk Score		CONTROL MEASURES	RE	SIDUA	L RISK		
Hazard Category and	Where and when might	RISK associated with the Hazard	Re	fer to f Mat	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to th Matr	ne Risk ix	Control	
Examples	this hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R		
Working environment and ergonomics: X Yes C No - Can anyone be injured due to seating design, repetitive body movement or posture, excessive effort plant design causing mental or physical stress, lack of consideration for human behaviour, poor lighting or others factors not mentioned?											
Inadequate lighting											
Glare from natural light		UV rays damage to eyes including cataracts, macular degeneration, pinguecula which may cause vision loss	С	3	H13	Operator / Procedural Controls: Correct PPE to be worn – Refer to operating manual,	E	3	M6	PPE	
Placement and identification of controls						applicable SWMS or perform a risk assessmentIf issues occur ensure that these are placed on daily report					
Seating design or seating location	During normal operation;					and advised to the supervisorApply sunscreen regularly to exposed skin					
Cramped or restricted work spaces (particularly for maintenance	During routine maintenance					 Wear UV protected safety sunglasses Drink water regularly to maintain hydration Operator to take regular breaks as required Rotate tasks 					
Noise levels						• Operators to wear clothing and safety glasses which are UV					
☐ Vibration						- rated					
Biological											
Heat and UV radiation		Dehydration; Melanoma via exposed skin damage	D	3	M9			4	L5	PPE Iso	
Location of plant in the workplace											
Other (please specify)			_								

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2	RISK associated	ted Section 4 Risk Score		Score	CONTROL MEASURES				
Hazard Category and	Where and when might this	with the Hazard	Re	fer to f Mat		Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Rei	efer to the Risk Matrix		Contro
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	Contro
Other Hazards: 🛛 Yes	No - Can anyone be injured	or suffer ill health f	rom e	expos	ure to:					
Chemicals		Corrosive battery acid	D	2	H14	• Only trained and authorised persons to maintain lighting tower	Е	2	M10	Admin
Toxic Gases or vapours						Lighting tower must be positioned in area with adequate ventilation. Do not use lighting tower in confined or restricted areas without adequate mechanical ventilation.				
Fumes / dusts		Exhaust fumes, asphyxiation	D	2	H14	 Identify overhead powerlines and do not position the lighting tower where there are overhead electric lines. 	Е	2	M10	Admin
Overhead / buried services		Electrocution Supply interruption	С	1	E22	• Contact the supply authority if power lines are present in work area.	Е	1	H15	Admin
⊠ Electrical	During Operation During repair and maintenance	Electric shock	с	2	E18	 Plant Controls: RCD with push to run RCD test points Lockable type battery isolator Operator / Procedural Controls: Pre-start check of equipment – DO NOT USE if damaged. Test the RCD monthly, do not use Lighting tower if the earth leakage circuit breaker is not working. Only qualified and licenced Electrician should troubleshoot or repair electrical problems. Disconnect electric power and switch off the engine before removing protective covers on electrical enclosures. Open main circuit breaker before disconnecting battery cables. Before removing any guards or starting any maintenance or repair work on the lighting tower, the power supply must be disconnected. Never use the lighting tower if insulation on the electrical cable is damaged. Operators aware of the emergency stop button location. Ensure all parts of the lighting tower are dry before use or repair Keep inspection covers closed while machine is operating and until cooled when shutdown. Do not touch exhaust vent or radiator cover or cap during or immediately after operation. Allow all parts of machine to cool before touching machine. 		2	M10	lsol Admin
⊠ Hot parts		Burns	с	3	H13			3	M6	Admin
☑ Lighting of private property and public areas		Public nuisance	С	3	H13	 Ensure lighting is only directed towards work area. Consideration to be given to private property owners when positioning lighting tower and mast height. 	D	3	M6	Admin
Hiahest	Protection		-			· · · · · · · · · · · · · · · · · · ·		•		Lowes

Highest Protection												
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6. PPE						



Section 1	Section 2	Section 4 Risk Score			CONTROL MEASURES	RE	SIDUA	L RISK		
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	efer to Mat	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to t Mat	he Risk rix	- Control
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	
Condition and suitabilit	ty of plant:									
Age and condition		Not undergoing pre-start checks; Neglect	D	3	M9	- Plant Controls:	D	4	L5	Admin
Service and maintenance history		Not following service schedule per Manufacturer' instructions	D	3	M9	 Ensure lighting tower is maintained in accordance with manufacturer's specifications. 	D	4	L5	Admin
Not fit for purpose	- During normal operation					 Operator / Procedural Controls: Complete daily prestart checklist prior to commencing work Ensure equipment is operated by trained, qualified, competent 				
Inability to apply isolation/lock out devices	During routine maintenance					 and authorised personnel Correct PPE to be worn – Refer to operating manual, applicable SWMS or perform a risk assessment 				
Accessories in unsafe condition						Only trained, qualified, competent and authorised personnel to complete repair works				
Modification from original design						 If operator/mechanic is working on plant, the plant shut down & start-up must be monitored by mechanic, machine must be isolated prior to working on machine. 				
Safe working load identified	1									
Other (please specify)										

Highest Pr	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2		Section 4 CONTROL MEASURES				AL RISK			
Hazard Category and	Where and when might this	RISK associated with the Hazard	Re	fer to Ma	the Risk trix	Consider number of people required to carry out a task, training, skills and competencies required, licences, permits,	Re	fer to t Mat	the Risk rix	Control
Examples	hazard exist?		L	С	R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R	Control
System of work relating	y to the plant:									
Emergency procedures relating to the plant	_	Lack of emergency training	D	2	H14	Plant Controls: Safety decals as per manufacturer's specifications 	D	3	M9	Admin
Communication systems associated with plant operation						Emergency stop button. Operator / Procedural Controls: Complete daily prestart checklist prior to commencing work				
Communication methods with plant operation						 Complete daily present checking plot to commencing work Ensure lighting tower is operated by trained, qualified, competent and authorised personnel Operate lighting tower in accordance with the manufacturers user manual. 				
Use of Permit to Work system	During normal operation; During routine maintenance					Emergency training of Operators including spill management.				
Start up and shut down procedures		Failure to follow Manufacturer's recommendation for pre-start and shut down processes	D	2	H14	 Correct PPE to be worn – Refer to operating manual, applicable SWMS or perform a risk assessment Ensure all operators are inducted into site emergency procedures Activate site emergency procedures in the event of an emergency 	D	3	M9	Admin
Secure against unauthorised use/access Storage or restoration to service requirements		Personal injury Property damage	С	2	E18	 Ensure inspection doors are secured to prevent unauthorised access. Tow hook must be isolated to prevent theft. 	E	2	M10	Admin
Other (please specify)										

_		rotection						Lowest
	Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Section 1	Section 2		Section 4 Risk Score					CONTROL MEASURES		SIDUA	L RISK					
Hazard Category and	Where and when might this hazard exist?	RISK associated with the Hazard	Re	Refer to the Risk Matrix								Matrix training, skills and competencies required, licences, permits,		Refer to the Risk Matrix		Control
Examples			L C R ^{etc., env}		R	etc., environmental controls, plant, tools and equipment, safety equipment and PPE, etc.	L	С	R							
Environmental issues c	ause failure:															
Inclement weather causes issues		Damage to equipment and property	D	3	M9	 Operator / Procedural Controls: Lower the mast and switch off when the lighting tower is not in use, or if high winds (> 110km/h) or electrical storms are 	D	4	L5	Admin						
Wind fowls cables and snags or breaks cable						forecast. • Ensure all inspection doors and covers are closed.										
Water impairs operation	During normal operation					 Seek shelter from inclement weather. Complete daily prestart checklist prior to recommencing work 										
Wind speed exceeds		Damage to				when inclement weather subsides.Check for any water or dampness, and dry thoroughly before use.										
recommended limit		equipment and property	D	3	M9	 Ensure lighting tower is operated by trained, qualified, competent and authorised personnel. When towing or transporting lighting tower, drive to the conditions. Avoid pot holes and debris on the road. 	D	4	L5	Admin						
Other (please specify)																

Highest P	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Completed by:	Contact details:	
Reviewed by:	Contact details:	

I have reviewed the Plant Risk Assessment and have had the opportunity to comment and make changes as I thought necessary.

Name	Position description	Signature	Date	Plant Model No.	Plant Serial No.

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Additional controls:

For each additional control, identify appropriate corrective actions, including priority, timeframes and responsibilities, communicate the requirements to the person responsible and the input the information into the Corrective Action Register.

Highest Protection							Lowest	
	Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE



Legislation / Codes of Practice - QLD		Legislation / C	Codes of Practice - NSW				
Work Health and Safety Act 2011 Work Health and Safety Regulations 2011		Work Health and Safety Act 2011 Work Health and Safety Regulations 2017					
Electrical Safety CoP – Working near overhead and underground electric lines First Aid in the Workplace CoP Hazardous Manual Tasks CoP How to Manage Work Health and Safety Risks CoP Managing Noise and Preventing Hearing Loss at Work CoP Managing risks of hazardous chemicals in the workplace CoP Managing electrical risks in the workplace CoP Managing risks of plant in the Workplace CoP Managing the work environment and facilities CoP Traffic Management for construction or maintenance work CoP Work Health and Safety Consultation, Cooperation and Coordination CoP	First Aid in th Hazardous M How to Mana Managing N Managing N Managing R Managing th Moving plan Work Health	Construction Work CoP First Aid in the Workplace CoP Hazardous Manual Tasks CoP How to Manage Work Health and Safety Risks CoP Managing Electrical Risks CoP Managing Noise and Preventing Hearing Loss at Work CoP Managing risks of hazardous chemicals in the workplace CoP Managing Risks of Plant in the Workplace CoP Managing the Work Environment and Facilities CoP Moving plant on construction sites Pre-WHS CoP Work Health and Safety Consultation, Cooperation and Coordination CoP Work near overhead power lines Pre-WHS CoP					
Legislation / Compliance Codes - VIC:		Legislation / C	Codes of Practice - ACT				
Occupational Health and Safety Act 2004 Occupational Health and Safety Regulations 2017 Compliance code: Communicating occupational health and safety across languages Compliance code: First aid in the workplace Compliance code: Hazardous manual handling Compliance code: Hazardous substances Compliance code: Noise Compliance code: Plant Compliance code: Workplace amenities and work environment	Work Health Construction First Aid in th Hazardous M How to Mana Managing R Managing R Managing R Managing th	Work Health and Safety Act 2011 Work Health and Safety Regulations 2011 Construction Work CoP First Aid in the Workplace CoP Hazardous Manual Tasks CoP How to Manage Work Health and Safety Risks CoP Managing Electrical Risks in the Workplace CoP Managing Noise and Preventing Hearing Loss at Work CoP Managing Risks of Hazardous Chemicals in the Workplace CoP Managing Risks of Plant in the Workplace CoP Managing Risks of Plant in the Workplace CoP Managing the Work Environment and Facilities CoP Work Health and Safety Consultation, Cooperation and Coordination CoP					
Legislation / Codes of Practice - SA		Legislation / 0	Codes of Practice - WA				
Work Health and Safety Act 2012 Work Health and Safety Regulations 2012 First Aid in the Workplace CoP Hazardous Manual Tasks CoP How to Manage Work Health and Safety Risks CoP Managing Electrical Risks in the Workplace CoP Managing Noise and Preventing Hearing Loss at Work CoP Managing Risks of Hazardous Chemicals in the Workplace CoP Managing the Risks of Plant at Workplaces CoP Managing the Risks of Plant at Workplaces CoP Managing the Work Environment and Facilities CoP Work Health and Safety Consultation, Cooperation and Coordination CoP	Work Health Construction First aid in th Hazardous r How to man Managing no Managing ris Managing th	e workplace CoP nanual tasks CoP age work health and safety ri bise and preventing hearing l sks of hazardous chemicals in sks of plant in the workplace e work environment and facil	sks CoP oss at work CoP n the workplace CoP CoP	Р			
Highest Protection			Γ		Lowest		
Hierarchy of Controls1. Elimination2. Substitution3	. Isolation	4. Engineering	5. Administration	6.	PPE		

PRPOWER

PLANT HAZARD IDENTIFICATION & RISK ASSESSMENT

Legislation / Codes of Practice - NT	Legislation / Codes of Practice - TAS
Work Health and Safety (NUL) Act 2011	Work Health and Safety Act 2012
Work Health and Safety (NUL) Regulations 2011	Work Health and Safety Regulations 2022
Construction Work CoP	Construction Work CoP
First Aid in the Workplace CoP	First Aid in the Workplace CoP
Hazardous Manual Tasks CoP	Hazardous Manual Tasks CoP
How to Manage Work Health and Safety Risks CoP	How to Manage Work Health and Safety Risks CoP
Managing Electrical Risks in the Workplace CoP	Managing Electrical Risks in the Workplace CoP
Managing Noise and Preventing Hearing Loss at Work CoP	Managing Noise and Preventing Hearing Loss at Work CoP
Managing Risks of Hazardous Chemicals in the Workplace CoP	Managing Risks of Hazardous Chemicals in the Workplace CoP
Managing Risks of Plant in the Workplace CoP	Managing the Risks of Plant at Workplaces CoP
Managing the Work Environment and Facilities CoP	Managing the Work Environment and Facilities CoP
Work Health and Safety Consultation, Cooperation and Coordination CoP	Work Health and Safety Consultation, Cooperation and Coordination CoP

	rotection						Lowest
Hierarchy of Controls	1. Elimination	2. Substitution	3. Isolation	4. Engineering	5. Administration	6.	PPE