ABN	77 626 194 992	Cofe Morely Mathead Statement	
Address	9 Wenban Pl, Wetherill Park, NSW 2164	Safe Work Method Statement	
Phone	02 9131 6611	Work Activity: General Lifting	34.7 1
Email	info@dkegroup.com.au		DARK KNIGHT ENGINEERING

Principle Contractor:	Date Provided to Principle Contractor:
Project Name:	Project Address:
Commencement Date:	Duration of Works:

Hi	High Risk Work: (Indicate high risk construction work associated with the activity/task)						Qualifications / Competencies	Plant & Equipment
	On or near energised electrical installations or services		Working around powered mobile plant		Risk of falls from greater than 2 metres		□General Construction Induction (White Card) □Asbestos Awareness Training	□AT20 Franna (20T) □MAC 25T Franna (25T)
	In trenches/shafts deeper than 1.5 metres		Temporary support for structural alterations		On, in or adjacent to road, rail shipping or other major traffic corridor		□ Asbestos Awareness Training □ Other HRW Licences; WP, HM, HP, LO, CV □ Crane Licenses; C1, C2, C6, CN	□KRM -13H (13t) □LTM 1040-2.1 (40t) □LTM1060-3.1 (60T)
	In or near a confined space		Removal/ disturbance of asbestos		On a telecommunication tower		□Rigging; RA, R1, RB □Dogger; DG	□LTM 1095-2.1 (95T) □Truck
	In an area with contaminated or flammable atmosphere		With dangerous goods or substances		On or near pressurised gas distribution mains or piping		☐ Heavy Ridged License; HR ☐ First Aider	□Lifting Gear, Slings, Chains and Spreader Bar
	Demolitions of load-bearing structures		Work involving tilt up/pre-cast concrete		Work that involves explosives			

PPE, safety & emergency equipment and hazardous substances required for this task:

Mandato	ry PPE			Task Speci	fic PPE					
Uniform	Hi Vis	Footwear	Hard Hat	Eyewear	W/Gloves	Hearing	Dust Mask	Fall Arrest	Other	
		Z	B	æ				-		
Additiona	Additional Task Specific PPE (Please list)									

☐Heavy Ridged License; HR □First Aider	□Lifting Gear, Slings, Chains and Spreader Bar
Safety & Emergency Equipment	Hazardous Substances
□Fire Extinguisher	□твс
□ First Aid Kit	
□Signage, Barriers, Traffic Cones	
□Tag Lines	
□Spill Kit	
□Radios	
Fall Arrest Equipment	

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			Likeliho	bod ⇔				Likelihood Description			
Consequer	nce [↓]	Very Likely	Likely	Unlikely	Very Unlikely	Very LikelyConstant exposure to the hazard, easily foreseeable, could happen any mome has happened on several occasions					
Extreme		16	14	11	7	Likely		posure to the hazard, could happen at			
Major		15	12	8	4	Unlikely		t exposure to the hazard, could happen	but not really likely, has		
Moderate	9	13	9	5	2			once before somewhere			
Minor		10	6	3	1	Very Unlikely		osed to the hazard, not really expected	d, have never heard of it		
		-			· · ·		happening	5			
	T		ence Descript		-	_					
xtreme	-	d multiple fat) business loss	• •	ncident for bu	isiness, over	FIG	URE 2: The hiera	rchy of risk control			
Major		ijury with som oss of eye etc					HIGHEST	Level 1	MOST		
Noderate					, crushed finger	-	Eliminate the hazards				
noucrate		er \$10,000 bus	• •	Sidze, Stitenes	, crusheu ninger		\sim				
/linor				g Band-Aid, s	mall graze etc.),		ion	× *	in		
	minimal to no business loss				0 //		To a	Level 2	arre		
							Page 1		eas		
		Risk	Tolerability				safety protection	Substitute the hazard with something safer	ability of control measures		
HIGH	To be act	ioned immed	iately to lowe	r the risk leve	l. Additional			Isolate the hazard from people	ntro		
		to be develop		•			alth and	Reduce the risks through	2		
MEDIUM			ver possible. V	Nork is able t	o proceed with		Ť.	engineering controls	2		
		e supervision				_	tea		li i		
LOW			ime permits.	Work is able t	o proceed with		ĩ	V	elia		
	minimal	supervision						Level 3	α.		
							V	Reduce exposure to the hazard using administrative actions	\sim		
							LOWEST	Use personal protective equipment	LEAST		

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Basic Job Steps	Hazards	Risks	Risk Rating	Control Measures	Risk Rating
		(All risks are managed in the Corporate Risk Register).	(Untreated)	(Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	(Residual)
1. Worksite arrival and assessment	Lack of awareness of procedures and SWMS applicable for the activity/task	Injury to workers, the public and damage to plant, property and equipment	12	 All members of the crane crew inducted and signed onto the Safe Work Method Statement/s (SWMS) All members of the crane crew to be site specific inducted Crane crew to be aware of site emergency procedures Onsite pre-job risk assessment to be completed by all members of the crane crew prior to plant/equipment being unloaded and works commencing. Works will be continually monitored for any additional hazards and to ensure existing controls are adequate. The operators/dogmens (crane crew) will determine whether the lift is safe to commence work. If the crane crew disagree, the work will be deemed unsafe. In the event the crane crew have deemed the work as unsafe or it is deemed unsafe, they will advise the customer and contact the crane supervisor/project manager at DKE Group. Whether the lift is made or it is determined or deemed to be unsafe that decision will be supported by DKE Group. The crane supervisor and both the project manager will deal with the customer and explain why the lift is considered unsafe and advise any safer options available to complete the lift. Emergency assembly point identified and noted on the pre- job risk assessment Supervisor identified and known by all workers Overhead and underground services and safe approach distances checked for workers, mobile plant and vehicles 	9

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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)	Control Measures (Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	Risk Rating (Residual)
	Traffic, Vehicles, cyclist and pedestrians	Injury to workers, the public and damage to plant, property and equipment	12	 If possible call the client with your ETA before arrival, so they can arrange immediate access to the site or install traffic controls Select appropriate location for workers, plant and equipment for pre-job risk assessment Mandatory PPE to be worn at all times Hi Vis clothing, long sleeves, long pants, hat hard, steel cap boots Observe public road rules Observe any temporary traffic management plans in place Deploy interim traffic and pedestrian management (hazard warning lights, safety cones e.g.) 	9
	Unsure of scope of work	Wrong task or location identified	9	 Confirm with the client the details of the job including scope of work, Request information on any specific hazards/risk that may affect the team and work activity 	6
	Plant and equipment incorrect for task	Resources inadequate; workers, plant and equipment	9	 Ensure plant is appropriate for the allocated task Check logs books of all plant to be used Operators "know your crane" e.g. charts, indicators, limitations, controls Do not ever attempt to operate the crane outside its capacity (WLL) 	6
	Lack of required qualifications, authorisations and experience to complete task	Injury to workers, the public and damage to plant, property and equipment	12	 Workers qualified and competent for task being undertaken Training current and up to date Licences current and up to date Trainees will be under direct supervision and will hold a Log Book 	9

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	Above and underground services	Injury to workers, the public and damage to plant, property and equipment	15	 Current dial before you dig (DBYD) available and reference to at all times Maintain the required safe approach distances at all times Other utilities representatives to be onsite if specified in DBYD documentation If ever unsure, consult with client representative and/or DKE Group Management 	13
	Poor Communication	Injury to workers, the public and damage to plant, property and equipment	9	 Communication with other work parties, all understand works to be undertaken and emergency protocols 	6
	Weather	Heat stroke, sunburn, dehydration and hypothermia	9	 Appropriate application of sunscreen Ensure regular fluids intake Plan work to minimise exposure Take regular breaks when working in high temperatures Wear clothing appropriate for the climate 	6
2. Crane travelling to work area	Mobile plant and equipment	Injury to workers, the public and damage to plant, property and equipment	14	 Assess the site and inspect the route on foot first if you suspect hazards Crane to have all lights on when travelling Observe site's speed limit e.g. walking pace When reversing or accessing tight areas, dogman to act as spotter at all times Only DKE Group Staff are to be designated spotter! Spotter never to stand directly behind crane or in a crush zone when directing crane Maintain communication with all other work parties onsite 	9
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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)	Control Measures (Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	Risk Rating (Residual)
	Electrical apparatus	Electric Shock and injury through exposure to live or faulty apparatus	15	 Maintain safe approach distances (refer to applicable electrical safety rules) Dogman to act as spotter at all times Follow site specific isolation and lock out procedures Follow all instructions given by an authorised representative 	13
3. Setting up crane and work area	Faulty plant and equipment	Injury to workers, the public and damage to plant, property and equipment	14	 Crane operator checks to be completed Plant and equipment regular checklist to be completed, which includes checking for structural or equipment damage Any damage or faults to be reported to the Mechanical Manager of DKE Group immediately Crane Crew to continually monitor the crane to identify issues the crane operator may not be aware of. 	9
	Uneven ground and hazardous area	Plant accident	12	 Check ground conditions boggy, steep e.g. before setting crane up Housekeeping in the area the crane will be set up in must be to a high standard to minimise slips, trips and falls for the crane crew If the area is not clear and if access is obstructed contact the site representative to resolve before proceeding any Further Do not walk the load on a side sloap 	9

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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)		Risk Rating (Residual)
	Site visitors, contractors, vehicles struck by crane	Injury	14	 Take control of the work area and isolate as much space as needed with tape, signs and/or bollards/cones to protect your crew, other workers and the public. Maintain awareness of plant/vehicle movements and do not assume drivers/operators can see you 	9
	Insects, spiders, snakes, dogs and vermin	Injury, allergic reaction, poisoning	8	 Check worksite for vermin/infestation and have removed before commencing work if required Appropriate application of insect repellent First aid kit readily available Watch out of snakes and spiders Ensure correct and mandatory PPE is worn at all times 	5
	Structural or in ground collapse	Injury to workers, the public and damage to plant, property and equipment	14	 Obtain (where possible documented) engineering advice on structural capabilities when crane is working near or set up above structure If unsure check with the Client or engineer, or use the formula listed below before setting up <i>Formula: 0.65 (crane mass + load mass) divided by ground bearing pressure</i> Inspect ground for soft spots, drains, pits or penetrations. Do not set up within the Zone of Influence of open excavations/trenches Use solid packing under all outrigger pads with the bottom layer of blocking closed Extend outriggers for the crane as required by the manufacturer's operating instructions 	9

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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)	Control Measures (Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	Risk Rating (Residual)
	Chemical spills (hydraulic oil, diesel	Illness, poisoning, allergic reaction	9	 SDS available, instructions followed for all hazardous substances used or come in contact with Mandatory PPE worn correctly with task specific PPE as required by SDS 	6
	e.g.	Environmental damage	9	- Spill kit on site and readily available	6
	Electrical apparatus	Electric Shock and injury through exposure to live or faulty apparatus	15	 Look Up and maintain safe approach distances (refer to applicable electrical safety rules) Dogman to act as spotter at all times Position the crane considering the load radius before lifting to avoid any contact. Ensure there is clearance for the crane to slew Make allowances for boom deflection during lifting and landing Natural fibre rope is to be used as a tag line (If tag line required). Flashing orange light is to be removed from Franna boom whenever there is an overhead obstacle, before commencing lifting operations An earth must be attached when working near electrical apparatus, a bonded earth is the first option, otherwise a trailing earth must be attached 	13

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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)	Control Measures (Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	Risk Rating (Residual)
	Fall from heights	Injury to workers	12	 Use EWP when available. Ensure operator is competent and licensed to operate EWP. Harnesses inspected and anchor points certified for use (both within the EWP and fixed anchor points on the crane) Use of platform ladder When walking on jib all workers to ensure harness is worn 	9
4. Fly erection (jib extension) attachment	Pinch and crush points	Injury to workers	9	 All workers to wear suitable gloves for hand protection Keep body parts away from moving mechanisms on the cranes. Follow the manufacturers instruction on the correct assembly and disassembly of the fly attachment 	6
	In adequate space for fly erection	Damage to structures, plant,	9	 Set up crane in suitable location on site Tag line required Exclusion established and maintained No worker to walk under the jib/fly set up 	6
5. Lifting load	Poor communication	Injury to workers, the public and damage to plant, property and equipment	9	 Mobile phones are not to be used when operating the crane or dogging Radio contact to be established and checked by both operator and dogman If Dogman is in line of sight of crane operator, clear hand signals to be used and have load in sight at all times Dogman must carry a whistle All other workers to keep clear of load until it is landed 	6
	Manual Handling	Injury, musculoskeletal, crush, cuts and abrasions	9	 Prime before commencing tasks Use correct manual handling techniques and mechanical aids where available. Avoid overreaching at all times Mandatory PPE worn correctly with working gloves 	6

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	Fall from heights when rigging load	Serious injury or death	14	 Access loads via correct methods and engineering controls to prevent falls Rescue plan noted on pre-job risk assessment Use harness where required, ensuring it is anchored to a load rated anchor point. If working on the back of a float, make sure the area is clear of trip or slip hazards, get on & off facing the truck using steps and rails; don't jump off Stay 1.8 metres away from any unprotected void Identify the landing area and fall protection before crane is setup Use rails and steps on the crane when embarking or disembarking the cabin 	9
	Entanglement	Injury to workers	12	 Plant operator to have licence and / or competent Safety Spotter in place Ensure safe defined work area established with barriers and signs in place 	9

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Basic Job Steps	Hazards	Risks (All risks are managed in the Corporate Risk Register).	Risk Rating (Untreated)	Control Measures (Controls required to eliminate or minimise the potential for injury of harm based upon the hierarchy of controls).	Risk Rating (Residual)
	Lifting Loads and Objects	Injury to workers, the public and damage to plant, property and equipment	14	 Ensure safe working area is maintained – barricades, fences and signage. Slings, chains and lifting beams to be visually inspected by a trained, qualified and competent dogman prior to use, ensure within test date and rated to suit the load Do not exceed SWL (ensure load is checked against lifting capacity plate) Drop Zone established Do not walk under load Safety Spotter in place Ensure Crane Hook is always positioned over the centre of the load Dogman to identify mass of the load and to advise the Crane Operator; (if unsure ask the Client for more information) Dogman to double check the load is rigged and attached to the crane properly Ensure crane is parked on level ground, handbrake on outriggers/stabilisers deployed Use taglines as required If a load falls, stop work immediately, make safe, notify DKE Group Management for further instructions and direction 	9

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	Plant and equipment failure	Injury to workers, the public and damage to plant, property and equipment	14	 Operator to complete Daily Crane Operator Checks Plant and Equipment Regular Checklist completed for every job Ensure any defects are recorded and rectified Plant operator to be licensed and / or competent Plant / equipment to be operated as per Manufacturer's instructions Ensure SWL of any lifting and equipment is not exceeded Crane Operator to swing, lift and land the load slowly Ensure plant is within mechanical, weight and electrical test dates 	9
	Plant rollover	Injury to workers, the public and damage to plant, property and equipment	14	 Check and ensure stable ground conditions Check Crane's stability, capacity, range diagrams and rating charts before making the lift. Test the safe load system / indicator daily. If required do a dry lift first. Ensure plant is set up within operating limits using Maximum range indicators Stabilisers and outriggers Dunnage – packing for stabilisers/outriggers Crane operator to set the crane radius. Crane operator will not operate the crane over 100% or near LMI limits. Ensure Plant not operating or set up within Zone of Influence e.g. anywhere within a 45 degrees plane from the bottom of excavation Example: 1 Mtr Depth excavation - Zone of Influence is 2 Mtrs of edge Do not Mobile with a load on a side sloap 	9

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	Crush or Pinch	Injury to worker or public	9	 Ensure any defects are recorded and rectified Plant operator to hold licence and / or competent Safety Spotter in Place Maintain awareness of pinch points and crush hazards Install barriers, guards or exclusion zones Maintain communication between work party members 	6
	Inadvertent contact with live overhead electrical apparatus	Electrocution (death), Electric shock and exposure to live or faulty apparatus	15	 Safe Working distance to be maintained Communication in place between operator and Spotter, line of site maintained An earth must be attached when working near electrical apparatus, a bonded earth is the first option, otherwise a trailing earth must be attached. Use appropriately rated insulated equipment Plant operator and driver licensed and competent Rescue Plan in Place In the event of electrical contact made -Remain in the cabin of the machine until a direction is given by an authorised person from the relevant power authority that isolation has been achieved If you need to leave the cabin in case of fire or another life threatening situation, you must jump clear of the machine without touching the machine and the ground at the same time. (It is very important that you must hop, with both feet together, away from the machine) Once you are clear you must stay a reasonably safe distance from the area and warn all other people to stay clear of the area until it has been made safe 	13

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	Unsuitable landing area	Injury to workers, the public and damage to plant, property and equipment	12	 Pre-inspect the landing platform to make sure it can support the load. Ensure the platform installation has been signed off by a competent person 	6
6. Working from scissorlift	Fall from heights	Injury to workers, the public and damage to plant, property and equipment	14	 DKE Group workers to be inducted and signed onto other contractor SWMS for any works conducted from the scissorlift (managed and operated by the other contractor) 	5
7. Packing up crane and leaving site	Manual Handling	Injury, musculoskeletal, crush, cuts and abrasions	9	 Use correct manual handling techniques and mechanical aids where available. Avoid overreaching at all times. Mandatory PPE worn correctly with task specific PPE, working gloves When lifting keep your back straight, feet parallel, avoid twisting Carry heavy loads e.g. packing, chains, hooks close to your body 	6
	Unsecured plant, tools and equipment	Injury to workers, the public and damage to plant, property and equipment	9	 Plant, equipment and tools secured, stored correctly prior to travelling 	6

Safe Work Method Statement Implementation, Monitoring and Review

DKE Group Supervisor is to observe the work being carried out and monitor compliance with the SWMS and review risk controls regularly, including but not limited to:

- Before a change occurs to the work itself, the system of work or the work location;

- If a new hazard associated with the work is identified;

- When new or additional information about the hazard becomes available;

- When a notifiable incident occurs in relation to the work; and

- When risk controls are inadequate or the SWMS is not being followed.

In all of the above situations **<u>stop the work</u>**, review the SWMS, adjust as required and re-induct the work crew.

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Step No.	Job Step	Hazards	Risks	Risk Rating	Control Measures	Risk Rating Residual	Responsible Person
				Untreated		Residual	

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Sign on and acknowledgment

I confirm by my signature below that I have participated in consultation explaining this Safe Work Method Statement (SWMS) and understand the hazards, risks and control measures necessary for the safe completion of the job. I agree to follow the conditions of the SWMS at all times. Should safety conditions change I shall stop work immediately and inform my Supervisor.

I confirm that copies of the relevant permits and safety data sheets have been reviewed.

Date	Name	Signature	Date	Name	Signature

Safe Work Method Statement Approval						
SWMS Approver:	Tim Studders, Crane Supervisor DKE Group	Signature:	the	Date:	27/10/2020	
Supervisor responsible for the work activities and compliance with the SWMS	Project Manager (02 9131 6611)	Signature:		Date:		

A review of the safe work method statement will be at 12 months from the approval date above. Or when additions hazards and controls are identified by the workers and management of DKE Group via consultation and agreement.

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