

Plant info	ormation					
Plant item:	HELI 2.5T DIESEL FORKLIFT Model – CPCD25 S/N – 010250N8754	detail	identification s t/plant no.):	HF292		
Project:						
Competency	required to operate the plan	nt:		other than a pedestrian operated ficate of Competency.		
List all legisl	lation, codes of practice and	Austral	ian Standards app	olicable to this item of plant:		
WH&S Act 20 WH&S Regul Plant Code of						
Hazardous M How to Mana Practice 2011		2011				
List other do	ety Regulations 2013 ocumentation relevant to this ring this assessment? ie SW facturer's Handbook.		SWMS Forklift Oper Operational Manual/	ations Safety Operation HELI Forklift.		
Assessment positions	conducted by: Names and		ED HORWOOD OPERATIONS MAN	IAGER	Date:	



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The following risk ranking criteria are used to assess the level of risk for the various aspects involved in a design. Higher risks require increased levels of control.

Cor	nsequence	Safety
Substantial	Cannot achieve key team or major program milestone, > x days	Class 1 (Fatal Incident)
Major	Major slip in key milestone or critical path impacted; X-X Days Slip	Class 1 (Permanent Injury)
Moderate	Major slip in key milestone; not able to meet needed date, X-X Days Slip	Class 2 (Lost Injury Time)
Minor	Additional resources/re- planning required to meet need/key date, X-X Days Slip	Class 3 (Minor injury, medical treatment required)
Negligible	Minimal or no key impact on dates, X-X Days Slip	Class 3 (Slight injury First Aid)

		Probability
	Almost Certain	Threat can be expected to occur. 75%-99%
~	Likely	Threat will quite commonly occur. 50%-75%
Risk	Possible	Threat may occur occasionally. 25%-50%
	Unlikely	Threat could infrequently occur. 10%-25%
	Rare	Threat may occur in exceptional circumstance. 0%-10%
	Extreme Very High	

5	10	18	23	25
	9	17	20	24
	8	13	19	22
		12	15	21
		11	14	16
Negligible	Minor	Moderate	Major	Substantial

Note: Existing Safe Health and Work Method Statements (SH&WMS) etc are to be reviewed along with other control measures relating to the plant. If the assessment identifies that a SH&WMS etc is not fit for the purpose, note this as a corrective action required in the **Additional Controls** section.



Maintenance/repair being asso	essed:	Yes, records available.				
No. of employees working on	(or likely to b	e working on) plant:	Depending on type o	f work – minimum 1	Estimate of duration of activity:	2 YEARS
Type of activity:		Scheduled t	frequency.	Inspection B	y Location of maint	enance:
⊠ Scheduled.		Daily – (every 8)	8 hours)	Operator	☐ On site ☐ C	Off site.
As per HELI Manufacturer's Ha Inspections to be carried out:	ndbook –	Weekly – (ever	ry 40 hours)	Operator	☐ On site ☐ C	Off site.
		• 6 monthly – (or	r every 250 hours)	Competent serv	vice ⊠ On site □ C	Off site.
		Annual – (ever	y 1000 hours)	Competent serv	vice ⊠ On site □ C	Off site.
□ Unscheduled.		When and if it malfunction	ons		⊠ On site ⊠ C	Off site.
Competency requirements for maintenance: (e.g. electrical, welding, etc) References (Australian Standards, maintenance manuals etc):	Only licensed Only qualified WH&S Act 201 WH&S Regs 2 Plant Code of AS 2359 Sectic SWMS Forklift Operational Ma	011 Practice 2008 on 6 Powered industrial Trucks Operations - unual/Safety Operation HELI For	r replace parts on LP gas nd fit tyres.			
Identified energy sources:	Electrical Sal	ety Regulations 2013 N/A	State method of isola	ation: N/A		
Other permit to work required						



Hazard identification	on and risk assessi	nent during	operation	ns and/or	maintena	nce activities			
Section 1 Put an X if the apply to the	ne hazard does apply to the plant.	e plant. Leave bla	ank if the hazar	d does not	Section 4	Then indicate the Consequence, Lik	elihood and F	Risk Rating.	
Section 2 Write where	on the plant the hazard ex	ists.			Section 5	Write the existing Controls and releva controls required	ant Comments	relating to a	dditional
	en the exposure is likely to e (M) or Both (B).	occur? During Op	perations (O),		Section 6	Indicate the residual risk taking into a after considering applicable legislation			emented
SECTION 1 Hazard category and	SECTION 2 Where on this plant does this	SECTION 3 Exposure during		Section 4		SECTION 5		; (
examples	hazard exist?	O M or B?	Consequence	Likelihood	Risk Rating	Controls and comments	Consequence	Likelihood	Risk Rating
Can anyone's hair, clothing	g, gloves, necktie, jewellery Engine compartment	B	materials beco	Possible	Very High Threat 19	Ensure hands, fingers and any other limbs are not exposed to any moving parts whilst completing pre-starts and/or maintenance works. Ensure machine is isolated in accordance with the project isolation and tag out procedure.	Major Major	Unlikely Unlikely	High Threat 15 High Threat
						ey to slow, stop or immobilise the plant, to der or trapped between plant and material Ensure trained and certified operators only operate and service machine.			Very Hig Threat



						Ensure before any maintenance work commences the personal danger tag is to be attached to the isolation source or ignition switch.	Major	Unlikely	High Threat 15
	Forklift operation	0	Major	Likely	Very High Threat 20	Ensure competent and certified ticketed operator stops machine if any personnel encroaches the work area.	Major	Possible	Very High Threat 19
						Operator to ensure forks are set as wide apart as the load allows and carry the load as close to the floor as possible.	Major	Unlikely	High Threat 15
Cutting/ Stabbing/ Punctu Can anyone be cut, stabbed mentioned?		in contact with m	noving plant or	r parts, sharp o	r flying objec	cts, work pieces ejected, work pieces disir	ntegrated or o	ther factors r	not
Contact with flying parts or work pieces Parts or work pieces breaking (disintegrating) Work pieces ejected Movement of plant or components Isolation of energy sources	Engine compartment	M	Major	Possible	Very High Threat 19	Ensure machine is switched off and key removed before any maintenance is undertaken.	Major	Unlikely	High Threat 15



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Operator to ensure forks are set as ⊠ Body or body parts Fork Movements В Major Likely Major Possible Very High Verv wide apart as the load allows and caught between moving High Threat carry the load as close to the floor as components Threat 19 possible. ☐ Isolation of energy 20 sources Maintenance personnel to ensure to **High Threat** Maior Unlikely ☐ Body or body parts set the park brake and lower the 15 shear when passing forks onto the floor or ground. structure. Always remove the engine key. Striking - Yes⊠ No□ Can anyone be struck by moving objects due to plant or surfaces of the plant, or material handled by plant operation? Whilst completing Pre-start checklist Forklift during 0 Possible Major **High Threat** Major Verv Unlikely ensure travel alarm and visual operations High ☐ Uncontrolled or 15 warning beacon are operational. Threat unexpected movement of plant (warning sirens 19 required) Be aware of limited sight distance Maior Unlikely **High Threat** ☐ Uncontrolled or and blind spots when driving or unexpected movement of 15 operating components or material (warning sirens required) ☐ Moving objects due to No 'stunt' driving or horseplay while High Major Rare Parts or work pieces operating a machine Threat breaking (disintegrating) 14 ☐ Work materials protruding into travel path



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of Plant. ☑ Normal movement of plant ☐ Isolation of energy sources ☐ Other (please specify)	Major	Possible	Very High Threat 19	Do not operate unless properly trained to safely operate the machine	Major Major	Rare	High Threat

Electricity (Shock or burns) Contact - Yes No

Can anyone be injured by electrical shock or burnt due to damaged or poorly maintained leads or switches, water near electrical equipment, working near or contact with live electrical conductors, lack of isolation procedures or the factors not mentioned?



☐ Contact via damaged or poorly maintained electrical leads and cables ☐ Overloading of electrical circuits ☐ Isolation of electrical	Forklift operations	В	Substantial	Possible	Very High Threat 22	electi appa 2550. Regu	tain safe distan- rical power line- ratus in accord: 5, Electrical Sa- llations 2013 Sc as per manufac w:	s and ance wit fety chedule 4	n AS	Substantia I	Unlikely	Very High Threat 21
energy sources Contact with or proximity to live electrical conductors							Voltage Phase to Phase	Mini Approach Feet	num Safe Distance Meters			
☐ Contact via damaged							0 to 300V	Avoid C	ontact			
electrical control devices							300V to 50KV	10	3.05			
Contact via water							50KV to 200KV	15	4.60			
entry Other (please specify)						3	200KV to 350KV	20	6.10			
☐ Other (please specify)							350KV to 500KV	25	7.62			
						į	500KV to 750KV	35	10.67			
							750KV to 1000KV	45	13.72			
						Do no storm	ot operate during	lightning	or	Substantia I	Rare	High Threa
Explosion/Fire - Yes 🖂 N	lo an explosion of gas, vapour	rs, liquids, dusts o	or other substa	ınces, triggere	d by plant op	eration	1?					
☐ Ignition of flammable atmosphere initiated by the plant ☐ Ignition of flammable atmosphere initiated by material	Hot exhaust system	0	Major	Unlikely	High Threat 15	flamm Park 30cm and o	ot operate forklift nable materials. forklift with rear of from timber, pap other similar mate oustion of those n	end at lea per produ erials to a	st cts	Major	Rare	High Threa



	Engine compartment	В	Major	Unlikely	High Threat 15	charge/change the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.	Major	Rare	High Threat
Slips/ Trips/ Falls - Yes Can anyone using the pla	No ☐ Int or in the vicinity of the pla	ant, slip, trip or fall	due to the wo	orking environn	nent or other	factors?			



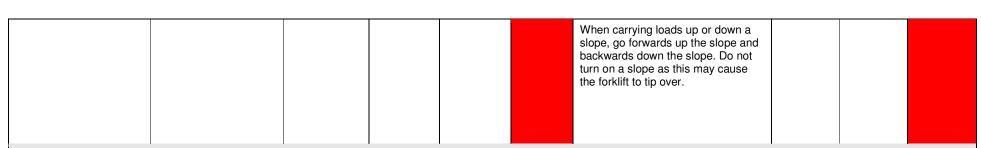
High Pressure Fluid - Yes ⊠ No □ Can anyone come into contact with fluids under high pressure, due to failure or misuse of the plant?	work or access surfaces entering or exiting the plant Housekeeping hazards produced by the plant Material ejected or falling from the plant Inadequate work platforms (size, location, fall protection) Access (ladders, stairs, walkways) to and from the plant Lack of guardrails or fall protection Collapse of the supporting structure Other (please specify)	Access steps to forklift operators seat	В	Moderate	Possible	High Threat 13	Ensure foot and hand holds are free from dirt/oil and grease. Ensure three points of contact when entering exiting Operators Platform/Cab.	Moderate	Unlikely	High Threat
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☐ Contact with fluids or gas under pressure as part of normal operation ☐ Contact with fluids or gas under pressure due to failure ☐ Contact with fluids or gas under pressure	Oil lines - engines	М	Major	Unlikely	High Threat 15	Qualified trained service fitter only to repair or replace as required	Major	Rare	High Threat 14
due to misuse Striking due to severed high pressure hoses/couplings Stored energy in									
machine systems/accumulators counterweights I Isolation and bleeding of pressure energy sources Other (please specify)									
Plant rolling over/ throug Can this item of plant roll of		over specified wo	rking limits?						
☑ Tip over hazards. ☑ Upper and lower limits	Forks/Tynes.	0	Major	Likely	Very High Threat 20	The equipment and materials must not exceed the maximum load capacity as per load capacity chart located on the machine. The higher the lift, the lower the allowable load.	Major	Possible	Very High Threat 19



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Working environment and ergonomics - Yes \boxtimes No \square

Can anyone be injured due to seating design, repetitive body movement or posture, excessive effort, poor workplace or plant design causing mental or physical stress, lack of consideration for human behaviour, poor lighting or others factors not mentioned?



☐ Inadequate lighting	Engine	В	Major	Possible	Very	Ensure adequate airflow when	Major	Unlikely	High Threat
levels					High Threat	operating forklift.			15
Glare from artificial					11116at				
light					19				
Glare from natural									
light									
☐ Placement and identification of controls									
Seating design or seating location									
Human error or									
behaviour aspects									
(Human factors)									
☐ Manual handling									
tasks associated with the									
plant									
☐ Cramped or restricted									
work spaces									
(particularly for									
maintenance									
☐ Noise levels									
☐ Vibration									
☐ Rain or moisture									
☐ Radiation (ionising –									
non ionising)									
☐ Biological									
□ Location of plant in									
the workplace									
○ Other (please specify)									
Heat and UV radiation									
				13 of 20					



Other Hazards – Yes ⊠ N Can anyone be injured or s		ure to:							
☑Chemicals☐Toxic Gases☐ Vapours☑Fumes	Engine	В	Major	Possible	Very High Threat 19	Ensure adequate airflow when operating forklift.	Major	Unlikely	High Threat
	Batteries	В	Major	Possible	Very High Threat 19	Keep sparks, flames and lighted tobacco away from batteries	Major	Rare	High Threat
Condition and suitability	of plant								
☐ Age and condition ☐ Service and maintenance history ☐ Frequency of use (high or low use or inappropriate duty cycle) ☐ Not fit for purpose ☐ Unsuitable accessories/fittings	Forklift Forklift not serviced and maintained as per scheduled frequency.	В	Major Risk	Possible	Very High Threat 19	Ensure maintenance timeframes are adhered to as per manufacturer's requirements. Operators to ensure daily pre-start checks are completed.	Major	Unlikely	High Threat



☐ Inability to apply isolation/lock out devices ☐ Accessories in unsafe condition ☐ Use in arduous environment ☐ Modification from original design ☐ Other (please specify)	Possible modifications to original design could cause further hazards or reduce structural integrity	В	Major	Possible	Very High Threat 19	Any modifications must be approved by forklift manufacturer. Adjustments and/or replacement parts must be completed by train authorised service personnel only.	Major	Unlikely	High Threat 15
System of work relating t	to the plant								
☐ Emergency procedures relating to the plant ☐ Communication	Operator	0	Major	Possible	Very High Threat 19	When parking the forklift, stop at a place where it will not be in the way of other machinery or vehicles.	Major	Unlikely	High Threat 15
systems associated with plant operation Communication						Apply the parking brake and lower the forks onto the floor or ground.	Major	Unlikely	High Threat 15



methods with plant operation Use of Permit to Work system Start up and shut down procedures Secure against unauthorised use/access Storage or restoration to service requirements Other (please specify)						Always remove the engine key.	Major	Unlikely	High Threat 15
Environmental issues ca ⊠ Inclement weather causes issues □ Wind fowls cables and snags or breaks cable	Forklift operations	0	Substantial	Possible	Very High Threat 22	Forklift must be operated in accordance with manufacture's specifications.	Substantial	Rare	High Risk 16
☐ Water impairs operation ☐ Wind speed exceeds recommended limit ☐ Other (please specify)						Do not operate during lightning or storm Do not operate in strong or gusty winds	Substantial Substantial	Rare	High Risk 16 High Risk 16



Are all identified risks controlle	ed to as low as reasonably practicable?	YES: ⊠ or NO: ∐	If No, list Additional cor	ntrols required on next page
Completed by:		Contact details:		
Reviewed by:		Contact details:		
I have reviewed the Onsite Pla	ant Risk Assessment and have had the opportu	nity to comment and make changes as	s I thought necessary.	
Name:	Position description:	Signature:	Date:	Company:



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

