

Type of Minimisation Controls Key: (S = Substitution, E = Engineering, I = Isolation, A = Administration, PPE = Personal Protective Equipment, X = latest amendment)

Risk Register – HAULER ACTIVITIES RISK ASSESSMENT

Vault ID #	Task/Area where hazards exists	Hazard – what can cause harm	Potential outcome – what can happen	Likelihood	Consequences	Risk Rating (Inherent)	Required Control Measures List the control measures required to eliminate or minimise the risk of illness or injury for each hazard identified	Frequency of Monitoring or Action Date	Personnel Responsible The person required to action the control measure	Eliminate	Type Minimisation Controls	Likelihood	Consequences	Risk Rating (Residual)
							when on transporter where practicable. Otherwise, 3-points of contact when ascending/ descending deck	practicable						
6301	Installation of Deadman	Workers falling into deadman hole (approx. 4 m deep), manual handling of Deadman rope or strop, worker v machine, machine tip over, unstable material underfoot	Fractures, crushing injuries, sprains, strains, serious injuries	C	5	H	<ul style="list-style-type: none"> Establish communication methods for worker and machine operation Onsite hazard identification and risk assessment Safe operating procedures (checklist) Trained/competent operators Landing/pad handover checklist No persons to stand near this operation. Deadman strops shall be as a minimum 15 metres long to allow safe manual assistance with their placement. Use the machine to handle the rope 	Before start Before start All times All times End of job All times All times All times All times All times	Roading/ Harvesting contractor Roading contractor Roading contractor Roading contractor Roading contractor Roading contractor Roading contractor	X	E, A	E	5	M
6302	Preparation of stumps	Stumps incorrectly notched, too small or not high enough resulting in the tower falling over, unstable/ small stumps, untrained chainsaw operator	Fatalities, crushing injuries, chainsaw cuts	B	5	E	<ul style="list-style-type: none"> Trained person to select and notch stumps Correct PPE Onsite hazard identification and risk assessment No persons to stand near this operation Stump inspections Qualified chainsaw operator ACOP Forest Operations 	All times All times Daily All times Daily All times All times	Contractor Workers Contractor Contractor Hauler operator Contractor Contractor	X	A, PPE	D	5	M

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6303	Hauler stabilisation pads	Worker entangled with stabilising ram, heavy lifts (pads)	Crushing injuries, strains, sprains	C	3	H	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Establish communications between hauler operator and workers Avoid putting hands near pads as they are being installed ACOP Forest Operations Correct lifting techniques when lifting pads Correct installation of pads Pad inspections 	Before start Before start All times All times All times Prior to moving Prior to moving	Contractor Contractor Contractor Contractor Contractor Contractor	X	E, A	E	3	L

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6304	Standing up a tower	Tower falling over, pinch points, ropes or objects falling off the pole making contact with a worker, equipment failure	Fatalities, serious injuries	B	5	E	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures – specific to the hauler type. Be familiar with manufacturers operator's manual Establish communications between hauler operator and workers No persons to stand in any pinch point areas Hauler ropes and shackles secured correctly Tower certification current and machine maintained in a good operational condition. Any issues with machine function to be risk assessed to ensure safe machine operation is possible and what if any controls need to be in place Carry out maintenance as per operator's manual Ensure hauler is level before standing the tower up Be aware of falling debris/objects, check nothing has been left on the tower that may fall when its raised. Trained operator and familiar with type of tower Ensure tower dogs are inserted correctly before running any guy ropes 	Prior starting All times Prior starting All times Prior starting Annual Prior starting Prior starting All times Prior starting All times All times	Contractor Contractor Contractor Workers Contractor Contractor Contractor Contractor Contractor Contractor Contractor	X	E, A	D	5	M

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6305	Running guy ropes	Person getting struck by moving rope under tension, person getting hit by a machine, machine damaging guy rope, sprags in rope, tower falling over	Fatalities, crushing injuries, serious injuries, sprags in hands	B	5	E	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures Be aware of falling debris/objects. Establish communications between hauler operator and workers Chain the guy rope or put in the grapple hook when pulling out – Machine operator must have visual contact with person operating guy winch or 1 person relaying between them, Operator must be able to determine tension in guywire and when to stop applying tension to prevent overloading. Machine must only operate on terrain where full traction and control is maintained. establish communication Trained operator Work gloves must be worn Grommets in all guy rope shackles Ensure your footing is stable before pulling rope. Do not stand in the bight on a rope. Replace badly worn rope. Do not hold onto rope by the eye, this will avoid injury if the rope twists. All other work on landings within the radius of the guywires will stop during tower or guyline shifts. 	<p>Prior starting All times All times All times</p> <p>When pulling guy ropes out</p> <p>All times Handling ropes</p> <p>All times All times</p> <p>All times</p>	<p>Contractor</p> <p>Contractor Workers Contractor</p> <p>Contractor</p> <p>Contractor Workers</p> <p>Contractor Contractor</p> <p>Contractor</p>	X	E, A, PPE	D	5	M

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6306	Tightening guy ropes	Workers fingers getting caught when fleeting ropes onto the guy rope drums, hand tools making contact with worker, not fleeting guy ropes on correctly, sprags in rope, tower falling over	Crushing fingers, serious injuries, sprags in hands	B	5	E	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures Establish communications between hauler operator and workers No persons to stand in any pinch point areas Install Deadman paint markings Inspect Deadman paint markings for any movement Work gloves must be worn Machine to be operated at idle when hand fleeting loose rope onto drum to ensure low speed When guiding tensioned rope onto a drum maintain distance from rope drum to avoid pinch points, watch for kinks and or sprags, grab rope firmly hand over hand style and guide it DO NOT allow rope to slide through gloves, this will prevent gloves catching on any defects. Trained operator No Spiked boots are to be worn on the hauler 	Prior starting All times All times All times Prior starting Daily Handling ropes All times All times All times All times	Contractor Contractor Contractor Workers Contractor Contractor Workers Contractor Contractor Contractor Workers	X	E, A, PPE	D	4	M

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1. Down Tower Activities														
6309	Rewind rigging back onto hauler	Person being hit by ropes under tension, person getting entangled into the fleeting drum, sprags, heaving lifting, slips, trips, falls, falling of the hauler, banging fingers with hammers, incorrect use of cut off saw, not wearing correct PPE, noise, sparks from cut off saw	Fatalities, serious injuries, sprags in hands, strains, sprains, bruises, cuts, noise induced hearing loss, burns, eye injuries, fires	B	5	E	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures Establish radio communications between workers and machines operators No persons to stand in the bite of any rope Work gloves must be worn Trained operators ACOP Forest Operations PPE Establish safe zones Use correct lifting technique or machine Correct use of tools Consider straw to tail before retrieving tail rope Chain the tail rope to the grapple when straw to tail Before retrieving any ropes, all workers are in a safe zone at least 15m from any moving ropes 	Prior starting Daily All times All times All times All times All times All times All times All times All times All times All times	Contractor Contractor Contractor Workers Workers Contractor Contractor Workers Contractor Workers Workers Workers Workers Workers	X	E, A, PPE	C	5	H

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6310	Lowering guy ropes	Person being hit by ropes under tension, sprags, tower failure, manual lifting and pulling on heavy rope	Fatalities, serious injuries, sprags in hands, sprains/strains	B	5	E	<ul style="list-style-type: none"> Tension taken out of all ropes Onsite hazard identification and risk assessment Safe operating procedures Establish radio communications between workers and machines operators No persons to stand in the bite of any rope Work gloves must be worn Trained operators ACOP Forest Operations PPE as per Forest Ops manual Establish safe zones Use correct lifting technique or machine Correct use of tools Correct sequence for lowering guy ropes Other work must cease while doing this task 	Before start Before start Daily All times All times All times All times All times All times All times All times All times All times	Workers Contractor Contractor Workers Workers Contractor Workers Workers Contractor Workers Workers Workers	X	E, A, PPE	D	3	M
6311	Removal of dogs	Person falling from the tower to release the dogs if they get jammed, jammed fingers, falling objects from height hitting someone on the ground, harness anchor point (step) fails	Fatalities, serious injuries, crushed hands, or fingers	B	5	E	<ul style="list-style-type: none"> Fall restraint protection, maintenance/replacement programme Onsite hazard identification and risk assessment Trained operators Establish a drop zone Correct use of tools Maintenance of dogs Tower maintenance certification – include inspection of steps Workers to complete working at height unit standard training Rescue procedure/plan and safety helmets with rated chin straps Send out a memo on working at height mandatory requirements 	All times Before start All times All times All times All times Annual All times All times Completed	Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor	X	A, PPE	E	3	L

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6312	Telescope pole down	Tower hydraulic failure, persons being hit falling objects or ropes	Fatalities, crushing injuries, fractures	C	5	H	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures Establish communications between workers and machines operators Trained operators ACOP Forest Operations PPE as per Forest Ops manual Establish safe zones Regular maintenance including checking all valves and hoses on hydraulic cylinders 	Before start All times All times All times All times All times All times Ongoing	Contractor Contractor Contractor Contractor Contractor Workers Contractor Contractor	X	A, PPE	D	5	M
6313	Rewind guy ropes	Fingers getting crush by rope, person being hit by rope under tension or machine, fingers hit by hand tools, hauler tip over, communications failure	Fatalities, serious injuries, finger or hand crushing injuries	B	5	E	<ul style="list-style-type: none"> Onsite hazard identification and risk assessment Safe operating procedures Establish radio communications between workers and machines operators Trained operators ACOP Forest Operations PPE as per Forest Ops manual Establish safe zones Regular maintenance Correct use of hand tools and hands/fingers must be kept clear of the drum 	Before starting All times All times All times All times All times All times Ongoing All times	Contractor Contractor Contractor Contractor Contractor Workers Contractor Contractor Workers	X	A, PPE	D	3	M

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