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Plant and Equipment Risk Assessment:

Skid Steer Loader

Model

Hazard Type	Hazard / Risk Description	Yes	No	Risk Rating	Location / Activity / Consequence	Controls
Entanglement and Entrapment	Could hair, clothing, ties, jewellery or other materials become entangled with moving parts of plant or materials in motion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16	Entanglement with moving parts/ Wheels and rotating parts	Workers with long hair must tie it up or secure it to prevent it from hanging loosely.
						Ensure all users have read and understood the Safety Instructions before operating.
						Ensure that hands, feet, clothing, jewellery and hair do not come in contact with the moving parts.
						Ensure that workers wear close-fitting clothing that cannot easily be caught in moving machinery. Avoid wearing loose or flowing garments.
						Be aware of all the safety signs on the machine, follow all the safety instructions, including those for maintenance
Exposure to Rotating or Moving Parts	Striking - Could anyone be struck by moving objects such as the work piece being ejected, or by the unexpected or uncontrolled movement of the plant or work piece?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21	Materials (e.g., rocks, debris) being ejected during operation, particularly from the bucket or attachments.	Use exclusion zones to keep personnel away from the load path.
						Maintain safe distances around the work area
					Possibility that plant may roll or tip when transporting	Refer to SWMS / JSA / JHA for delivery and loading/unloading of plant.
						Wear seatbelt when loading/unloading plant.
					During loading, unloading, or moving materials, there is a risk of objects being ejected from the loader's bucket or attachment, potentially striking nearby workers or the operator.	Implement safety protocols and procedures for operating the loader, including securing loads properly.
						Define and enforce clear exclusion zones around the operational area where only authorized personnel can enter.
						Use spotters or signal persons to guide operators in areas with limited visibility or high pedestrian traffic.
						Provide operators and nearby workers with appropriate PPE, such as high-visibility clothing, hard hats, and safety boots.
	Crushing and Pinching - Could anyone be crushed or pinched due to falling,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21	Crushed between moving machine and a fixed object	Ensure no persons are standing or traversing between the machine and a fixed structure at any

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	uncontrolled or unexpected movement of plant or its load tipping or rolling over, or contact with moving parts during testing, inspection or maintenance?					time
						Operator to stop work immediately if exclusion zone is breached
					Loader Tipping or Rolling Over	Ensure the loader is equipped with ROPS to protect the operator in the event of a rollover.
						ROPS must not be damaged, cut, welded, drilled or in any way modified.
						Only trained and authorised employees with VOC may operate this equipment
						When travelling up and down grades the plant should be facing either up the grade when travelling up grade) or down the grade (when travelling down grade)
						All plants have undergone detailed stability analysis. These calculations take into consideration the machines expected operating configuration, envelope, and approved operating conditions (i.e. slope)
					Injury to people, damage to product or equipment from running into or over	Only trained and authorised employees with VOC may operate this equipment
						Ensure isolating/ flashing hazard light is on and operational
	Shearing - Can body parts be cut off between two parts of the plant, or between a part of the plant & the work piece or structure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21	Unintended platform movement	A hydraulic braking system is provided to prevent the platform from unintentionally lowering. When power to the controls stop or fails, this system automatically locks the work platforms movements, in any position.
					General maintenance	When the plant needs to be raised for routine servicing purposes, the hydraulic system allows the extending structure to be held in the required position
						Ensure machinery is powered off and locked out during maintenance.
						Train all operators and personnel on the risks of shearing, proper use of guards, and the importance of not bypassing safety devices.
						Follow strict procedures during maintenance to ensure that equipment is de-energized and moving parts are secured before work begins.
					Risk of injury if body parts are caught between the loader and nearby structures	Ensure no persons are standing or traversing between the machine and a fixed structure at any

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					(e.g., walls, other machinery).	time when moving into or away from position
	Cutting, Stabbing and Puncturing - Can anyone be cut, stabbed or punctured by coming into contact with moving plant or parts, or objects such as ejected work piece or waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21	Unintended boom movement	A hydraulic braking system is provided to prevent the boom from unintentionally lowering. When power to the controls stop or fails, this system automatically locks the work platforms movements, in any position
						Define exclusion zones around the loader during operation to prevent personnel from entering areas where they may be at risk from ejected materials.
						Never operate in the vicinity of others. Set up exclusions zones as required.
					Shearing, Cutting or Crushed by digging arm with the ground	Stop work immediately if exclusion zone is breached
					Possibility of airborne projectiles when digging or loading	Stop work immediately if exclusion zone is breached
Electrical	Can the operator be injured by electrical shock due to working near or contacting with damaged or poorly maintained live electrical conductors such as power outlets, extension leads, safety switches, starters and isolators or casual water on the ground near plant and machinery?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18	Hitting overhead power lines	Always check for overhead power lines
						Do not breach the approach distance to a power line with any part of the machine of 3.0m (10 ft) for low voltage (Up to and including 132,000)
						Do not breach the approach distance to a power line with any part of the machine of 6.0m (20 ft) for voltage Above 132,000 up to and including 330,000
						Do not breach the approach distance to a power line with any part of the machine of 8.0m (26 ft) for high voltage Above 330,000
					Shock may occur during maintenance.	The plant must be isolated prior to maintenance
Explosion and Fire	As a consequence of using this particular item of plant and equipment, start a fire? Could anyone be injured by the release of stored energy triggered by volatile, explosive substances such as stored gasses, vapours or liquids?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13	Potential electrical issues, such as short circuits or overheating batteries, could ignite flammable materials.	Ensure proper insulation and maintenance of electrical components to prevent short circuits or sparks.
						Identify and classify areas where volatile substances are present, and restrict the use of equipment not suitable for such environments.
					Overheating or friction in moving parts may generate sparks or heat, posing a fire risk.	Implement protocols for the safe storage and handling of flammable or explosive materials, including proper labeling and containment.
Slips, Trips, Falls and Abrasions	Can anyone using the plant or in the vicinity of the plant, slip, trip or fall due to the	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10	Falling from cabin or ladder during ingress or egress	Ensure 3 points of contact

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	working environment or other factors?					Always face the cabin when accessing and exiting cabin
						Care must be taken in wet or dusty conditions
Environmental	Noise - Is it likely that the normal operation of this plant will produce excessive noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	Excessive noise from operations	Only work within designated work times (as per council or EPA requirements)
						Regularly service suspension and tires.
						Implement a regular maintenance program to ensure that machinery is operating efficiently and is not generating excessive noise due to wear or malfunction.
	Dust, Fumes and Vapours - Is it likely there will be airborne dust particles, toxic fumes or volatile vapours produced and therefore be present in the workspace	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	Creating dust from operations	Wet down area in dry dusty conditions
						During excavation/ loading, spray water lightly onto and around bucket area as the soil is being removed
	Disturb Cultural Sites	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	Digging up or Disturb Cultural Heritage Sites	Stop all works if sub-surface archaeological deposits are discovered
					Accidental disturbance of archaeological or culturally significant sites	Consult with local cultural authorities or experts to identify and protect known or potential cultural sites.
						Establish exclusion zones around identified cultural sites to prevent accidental disturbance.
						Use protective barriers and signage to clearly demarcate sensitive areas and restrict access.
						Conduct thorough environmental assessments and cultural resource surveys before beginning drilling operations to identify and assess potential risks to cultural sites.
	Disturbance to Plants or animals - removal of vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	General Operations	Drivers must be aware that driving on or through noxious weeds may pick up and carry seeds and lead to spreading the infestation
	Soil contamination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	Hydraulic oil or fuel leaks	Clean up any hydraulic or fuel leaks, contain and remove the contaminated soil
						Develop and implement spill prevention and response procedures to minimize the risk of spills and leaks.
						In the event of a spill or contamination incident, promptly clean up and remediate affected areas to minimize environmental impacts. Follow

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						established cleanup procedures and regulatory requirements for soil remediation.
					Blocking creeks or waterways	Implement erosion control techniques, such as silt fences, sediment basins, and vegetation buffers, to minimize sediment runoff into watercourses.
						Develop and implement water management plans to control water flow during operations, ensuring that creeks and waterways remain unobstructed.
						Do not park the machine in a waterway
						Do not place stockpiles in creeks or waterways
Blocking creeks or waterways		<input checked="" type="checkbox"/>	<input type="checkbox"/>	14		

FREQUENCY		RISK MATRIX				
Almost certain	MODERATE 11	HIGH 16	EXTREME 20	EXTREME 23	EXTREME 25	
Likely	MODERATE 7	HIGH 12	HIGH 17	EXTREME 21	EXTREME 24	
Occasionally	LOW 4	MODERATE 8	HIGH 13	HIGH 18	EXTREME 22	
Unlikely	LOW 2	LOW 5	MODERATE 9	HIGH 14	HIGH 19	
Rare	LOW 1	LOW 3	LOW 6	MODERATE 10	HIGH 15	
CONSEQUENCE						
Safety	Minor	Medical	LTI	PTD	Fatality	
Environmental	Minor	Negligible	Marginal	Critical	Catastrophe	
	Low	Moderate	High	Extreme		