

Integrated Mobile Plant Safety Management Document

Mandatory Risk Assessment (MRA) and Mandatory Safe Work Procedures (SWP)

Required to be completed every time there are changes in operator, work location, work scope, weather conditions, supervisor, or weekly whichever comes first.

Assessment & Plant Details	Information
Plant Type (e.g., Excavator, Loader, Forklift):	
Asset ID/Registration:	
Work Location/Area:	
Date of Assessment:	
Assessor Name:	
Operator License/Competency No.:	

Part 1: Risk Assessment Criteria (For Reference)

Risk Score	Risk Rating	Action Required
16 - 25	High / Extreme	IMMEDIATE Stop Work. Risk is unacceptable. Requires senior management approval to proceed.
8 - 15	Medium	Planned Action. Controls must be implemented and verified by a supervisor before commencing work.
1 - 7	Low / Very Low	Acceptable. Monitor and review controls regularly.

Part 2: Integrated Hazard, Risk, and Mandatory Procedures

Instruction: The Initial Risk and Residual Risk scores are to be determined by the Assessor. The **Mandatory Operational Steps (SWP)** must be adhered to by all operators and supervisors.

Hazard Category	Detailed Hazard / Risk Mechanism	C	L	Initial Risk Score	Mandatory Operational Steps (Safe Work Procedure - SWP)	C	L	Residual Risk Score
1. Stability/Structure								
1.1 Capsizing / Rollover	Crushing fatality from exceeding stability limits, especially on slopes or soft ground, or due to exceeding ROC.				1. Load Management: NEVER exceed the Rated Operating Capacity (ROC) . 2. Slopes: Travel straight up and down only. Keep the heavy end (load or counterweight) facing uphill. 3. Ground: Travel slowly on uneven/soft terrain; stop immediately if the machine feels unstable.			
1.2 Falls from Height	Fall when mounting/dismounting or inspecting due to wet/muddy surfaces.				1. Access: Always maintain three points of contact when mounting/dismounting. 2. Cleanliness: Keep steps, handles, and platform clear of mud, oil, and debris. 3. Inspection: Use required fall protection (harness) for inspections on non-designated high surfaces.			

2. Crushing/Contact								
2.1 Caught-In/Crushing	Operator or ground crew caught between moving mechanisms (arms, chassis, articulation points).				1. Isolation: NEVER place any part of the body near moving parts while the engine is running. 2. Maintenance: ALWAYS use the manufacturer's approved Lift Arm Supports before working under a raised attachment or boom. 3. LOTO: Implement Lockout/Tagout (LOTO) procedures before accessing any internal machine areas for repair.			
2.2 Striking Pedestrians	Collision due to poor visibility, blind spots, or unauthorized entry into the work zone.				1. Exclusion: Establish and enforce a minimum Exclusion Zone (5m radius) around the plant. 2. Spotter: Use a designated, competent Spotter when reversing, slewing, or operating in congested areas. 3. Alarms: Verify the horn, reversing alarm, and strobe light are functional during the Pre-Start Check.			

3. Mechanical/Systems								
3.1 High-Pressure Fluid Injection	Hydraulic fluid failure leading to fluid injection under the skin.				1. Inspection: NEVER use bare hands to check for leaks. Use cardboard or wood. 2. Pressure: Isolate and relieve all system pressure before working on any hydraulic lines or connections. 3. Reporting: Tag out the plant immediately if any visible hose damage or leak is detected.			
3.2 Component Failure	Steering, braking, or control system failure due to lack of maintenance or undetected fault.				1. Daily Check: Complete the Daily Pre-Start Checklist (including brake and control function) before every shift. 2. Maintenance: Ensure all pins and greasable areas are serviced as per the schedule. 3. Defect: If any defect is noted, IMMEDIATELY Tag Out the machine and report to the supervisor.			

4. Environmental/Site								
4.1 Contact with Energy Sources	Contact with overhead power lines or underground services.				1. Planning: Conduct a JSA/SWMS for all work near utilities. 2. Overhead: Maintain required clearance distances; use height limiting devices or physical barriers. 3. Underground: Services must be located, marked, and verified (e.g., using Dial Before You Dig, potholing) before breaking ground.			
4.2 Noise and Vibration	Hearing loss or fatigue from prolonged operation.				1. PPE: Mandatory use of appropriate Hearing Protection (earplugs/muffs) when operating the plant or working within the operational noise zone. 2. Fatigue: Adhere to defined work/rest periods to mitigate fatigue and vibration exposure.			

Part 3: Authorization and LOTO Declaration

Declaration: I, the undersigned Supervisor, confirm that this integrated assessment and the associated controls have been communicated to the operator and are required to be implemented during all relevant work.

Role	Signature	Date
Assessor:		
Supervisor/Manager (Authorization):		
