MCK GROUP – HS-RA-001 END LOADER RISK ASSESSMENT

Worker-Accessible App Extract – Master Document: HS-RA-001 Risk Assessment Register V1.1

Related Documents: HS-PR-001 Risk Assessment Procedure; HS-PR-002 Daily Plant Inspection Procedure; HS-PR-003 Personal Risk Assessment (Take 5) Procedure; HS-PR-005 Incident Investigation & Reporting Procedure; OP-PR-003 Workshop Procedure; OP-PR-017 Unsafe Plant Isolation Procedure; Fatigue Management Procedure; Working Alone Procedure; Spill Management & Containment Procedure; Operating Mobile Plant SWMS; Loading & Unloading Plant & Equipment SWMS; Relevant task-specific SWMS; Plant Maintenance Register; Training & Competency Register; Relevant EMP and SSMP; MCK Group IMS Registers Master.

Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
EL-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Plant failure, collision, rollover, injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
EL-002	Operator competency	Untrained or unauthorised operation	Inadequate competency verification or unfamiliarity with loader	Serious injury, rollover, plant damage, poor-quality work	Competency verification; training records; supervision; manufacturer instructions; site induction	15	4
EL-003	Mounting and dismounting loader	Slip or fall from plant	Mud, damaged steps, poor three-point contact	Sprains, fractures, lost time injury	Three points of contact; clean access steps; suitable footwear; no jumping from plant	9	4
EL-004	Starting and moving loader	Collision with people or plant	Blind spots, poor communication, people in operating area	Crushing, collision, serious injury or fatality	Exclusion zones; competent operator; horn; mirrors/cameras where fitted; radios; pre-start communication	15	4
EL-005	Reversing	Striking person, vehicle or object	Restricted rear visibility, alarms not heard, congestion	Serious injury, fatality, property damage	Reversing alarm; mirrors/cameras; exclusion zones; spotter where required; low-speed reversing	15	4
EL-006	Operating on slopes	Loader rollover	Excessive slope, side travel, high centre of gravity, sudden turns	Fatality, serious injury, major plant damage	ROPS/FOPS; seatbelt; competent operator; slope assessment; bucket kept low while travelling	15	4
EL-007	Operating near embankments or drop-offs	Edge collapse / rollover	Soft shoulders, hidden voids, excessive proximity to edge	Fatality, serious injury, plant loss	Safe setback; ground assessment; stop blocks where appropriate; spotter; controlled travel path	15	4
EL-008	Operating on soft or unstable ground	Bogging or loss of stability	Saturated ground, buried voids, weak fill	Rollover, plant damage, recovery risk	Ground assessment; weather monitoring; approved travel paths; competent operator	15	4
EL-009	Loading trucks or hoppers	Collision / falling material	Poor positioning, overloaded bucket, truck movement, poor communication	Crushing, collision, equipment damage, injury	Designated loading zone; clear communication; competent operators; truck stationary where required; exclusion zones	15	4
EL-010	Travelling with raised bucket	Reduced stability and visibility	Bucket carried too high, uneven ground, turning	Rollover, collision, dropped material	Travel with bucket low; controlled speed; clear travel path; competent operator	15	4
EL-011	Handling loose material	Material falling from bucket	Overfilled bucket, uneven travel, raised bucket	Struck-by injury, property damage, road contamination	Do not overload bucket; keep bucket low; exclusion zones; controlled travel speed	12	4
EL-012	Stockpile work	Stockpile collapse / loader instability	Undercutting face, steep stockpile, unstable material	Burial, rollover, plant damage	Safe loading face; avoid undercutting; inspect stockpile condition; controlled approach	15	4
EL-013	Working near other mobile plant	Plant-to-plant collision	Multiple machines, blind spots, poor separation	Serious injury, fatality, plant damage	Work sequencing; exclusion zones; radio communication; designated travel paths; supervisor coordination	15	4
EL-014	Working near workers on foot	Person struck or crushed	Pedestrian enters operating radius or blind spot	Fatality or serious injury	No-go zones; high-vis PPE; radio/visual communication; operator stops if person enters exclusion zone	15	4
EL-015	Operating near overhead powerlines	Electrical contact or arcing	Raised bucket or loader entering unsafe clearance	Electrocution, fire, fatality	Identify services; exclusion distances; signage; spotter where required; route planning	15	4
EL-016	Operating near underground services	Damage to buried services	Ground disturbance or travel over inadequately protected services	Electrocution, explosion, flooding, service outage	Before You Dig; service plans; marking; controlled operation; supervisor oversight	15	4
EL-017	Use of attachments	Attachment failure or unintended release	Incorrect fitting, damaged locking mechanism, incompatible attachment	Dropped attachment, crush injury, plant damage	Approved compatible attachments; pre-use inspection; locking pins/couplers checked; competent operator	15	4
EL-018	Bucket or attachment maintenance	Crush from raised attachment	Working beneath unsupported bucket or attachment	Crushing, serious injury or fatality	Lower attachment to ground; isolation; mechanical supports where required; competent maintenance personnel	15	4
EL-019	Hydraulic system	High-pressure hydraulic leak or hose failure	Damaged hoses, fittings, poor maintenance	Fluid injection injury, fire, environmental spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair; defect reporting	10	4
EL-020	Engine and exhaust area	Fire from hot surfaces or accumulated debris	Dry vegetation, oil leaks, debris around engine/exhaust	Plant fire, bushfire, injury, environmental damage	Daily inspection; clean engine bay; fire extinguisher where fitted; leak control	15	4
EL-021	Refuelling	Fuel spill or fire	Overfilling, hose failure, ignition source	Environmental contamination, burns, fire	Spill kits; controlled refuelling; trained personnel; no ignition sources; inspections	12	4
EL-022	Dust-generating operations	Dust exposure and reduced visibility	Dry material, traffic, wind	Respiratory irritation, collision, environmental nuisance	Dust suppression where practicable; enclosed cab; PPE where required; speed control; weather awareness	12	4
EL-023	Noise and vibration exposure	Operator exposure to noise and whole-body vibration	Extended operation, rough ground, poor seat condition	Hearing damage, fatigue, musculoskeletal discomfort	Enclosed cab where fitted; hearing protection where required; maintained seat; breaks where practicable	9	4

EL-024	Loading or unloading loader for transport	Plant rollover from ramps or trailer	Poor alignment, slippery ramps, inadequate trailer position	Fatality, serious injury, plant damage	Competent operator; level loading area; rated ramps; exclusion zone; spotter where required	**15**	**4**
EL-025	Transport restraint	Loader movement during transport	Insufficient or damaged chains/restraints	Road crash, plant damage, public injury	Rated restraints; approved tie-down points; pre-departure checks; restraint inspections	**15**	**4**
EL-026	Maintenance and repairs	Unexpected movement or stored energy	Inadequate isolation, raised bucket/attachment, hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; lower attachments; isolate/depressurise systems	**15**	**4**
EL-027	Remote or isolated operation	Delayed emergency response	Communication blackspots, remote forestry or park work	Serious injury escalation, delayed rescue	Working Alone Procedure; check-ins; radios/phones; emergency contacts; site location details; first aid resources	**10**	**4**
EL-028	Fatigue during prolonged operation	Reduced concentration and reaction time	Long shifts, repetitive work, heat, travel	Collision, rollover, poor judgement	Fatigue Management Procedure; scheduled breaks; fit-for-work expectations; supervisor monitoring	**15**	**4**
EL-029	Prolonged plant operation	Psychosocial hazards	Fatigue, production pressure, remote work, poor communication, stressful events	Reduced concentration, poor decisions, increased incident risk	Fatigue management; realistic workloads; supervisor support; regular communication; breaks; fit for work	**9**	**4**
EL-030	Plant operation	Mechanical failure during operation	Brake, steering, transmission, track or component failure	Loss of control, collision, rollover, serious injury, plant damage	Preventative maintenance; daily inspections; defect reporting; competent operators	**10**	**4**
EL-031	Working in hot or adverse weather	Heat stress / environmental exposure	High temperatures, humidity, prolonged sun exposure, dehydration	Heat stress, fatigue, reduced concentration, illness	Drinking water; shaded breaks; suitable PPE; work/rest regime; weather monitoring	**9**	**4**
EL-032	Manual handling	Hazardous manual tasks	Handling chains, tools, attachments and heavy components; awkward postures	Musculoskeletal injuries, strains and sprains	Mechanical aids; minimise manual lifting; suitable work positioning; team handling where appropriate; Manual Handling Procedure	**9**	**6**

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