MCK GROUP – HS-RA-001 POSI TRACK 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-017 Unsafe Plant Isolation Procedure; OP-PR-003 Workshop Procedure; Fatigue Management Procedure; Working Alone Procedure; Spill Management & Containment Procedure; Operating Mobile Plant SWMS; Excavation & Earthworks SWMS; Loading & Unloading Plant & Equipment SWMS; Vegetation Clearing & Mulching SWMS; Overhead Power SWMS; Relevant task-specific SWMS; Plant Maintenance Register; Training & Competency Register; Relevant EMP and SSMP; MCK Group IMS Registers Master.

Brendan McKenna Earthmoving

Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
PT-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
PT-002	Operator competency	Untrained or unauthorised operation	Inadequate competency verification or unfamiliarity with machine	Serious injury, rollover, plant damage	Competency verification; training records; supervision; manufacturer instructions; site induction	15	4
PT-003	Mounting and dismounting	Slip or fall from plant	Mud, damaged steps, poor three-point contact	Sprains, fractures, lost time injury	Three points of contact; clean access points; suitable footwear; no jumping from plant	9	4
PT-004	Starting and moving Posi Track	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
PT-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
PT-006	Operating on slopes	Machine rollover	Excessive gradient, side travel, raised attachment, unstable ground	Fatality, serious injury, major plant damage	ROPS/FOPS; seatbelt; competent operator; slope assessment; attachment kept low while travelling	15	4
PT-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; controlled travel path; spotter where required	15	4
PT-008	Operating on soft or unstable ground	Bogging or loss of stability	Saturated ground, weak fill, buried voids	Rollover, plant damage, recovery risk	Ground assessment; weather monitoring; approved travel paths; competent operator	15	4
PT-009	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 work zones; supervisor coordination	15	4
PT-010	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
PT-011	Operating 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
PT-012	Changing attachments	Crush / pinch injury	Hands or body within coupling area, movement during connection	Serious hand or crush injury	Level ground; attachment lowered; shutdown where required; clear hands from pinch points; follow manufacturer method	12	4
PT-013	Working below raised lift arms or attachment	Crush from uncontrolled lowering	Hydraulic failure, inadequate support or isolation	Crushing, serious injury or fatality	Lower attachment before exiting; isolation; manufacturer-approved lift-arm support where required	15	2
PT-014	Bucket loading and material handling	Falling or spilled material	Overfilled bucket, raised load, uneven travel	Struck-by injury, property damage, reduced visibility	Do not overload bucket; carry load low; controlled speed; exclusion zones	12	4
PT-015	Travelling with raised attachment	Reduced stability and visibility	Attachment carried too high, uneven ground, turning	Rollover, collision, dropped material	Travel with attachment low; controlled speed; clear travel path; competent operator	15	4
PT-016	Excavation or ground disturbance	Contact with underground services	Services not identified, inaccurate plans, work outside marked area	Electrocution, explosion, flooding, service outage	Before You Dig; service plans; locating and marking; controlled excavation; supervisor oversight	15	4
PT-017	Operating near overhead powerlines	Electrical contact or arcing	Raised attachment or machine entering unsafe clearance	Electrocution, fire, fatality	Identify powerlines; exclusion distances; signage; spotter where required; route planning	15	4
PT-018	Vegetation clearing	Falling branches / thrown debris	Contact with vegetation, hidden objects, unstable limbs	Serious injury, plant damage	FOPS where fitted; exclusion zones; work area inspection; approved clearing method; competent operator	15	4
PT-019	Forestry and overgrown areas	Hidden stumps, rocks, wire or holes	Dense vegetation obscures hazards	Sudden impact, rollover, plant damage	Slow inspection passes; site review; known hazards communicated; suitable guarding	12	4
PT-020	Track system	Track derailment or failure	Wear, debris build-up, incorrect tension, damaged components	Loss of control, downtime, recovery risk	Daily inspection; track tension checks; clean undercarriage; maintenance system	12	4
PT-021	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
PT-022	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
PT-023	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
PT-024	Dust-generating work	Dust exposure and reduced visibility	Dry soil/material, wind, repeated passes	Respiratory irritation, collision, environmental nuisance	Dust suppression where practicable; enclosed cab; PPE where required; speed control	12	4
PT-025	Noise and vibration exposure	Operator exposure	Extended operation, rough terrain, poor seat condition	Hearing damage, fatigue, musculoskeletal discomfort	Enclosed cab where fitted; hearing protection where required; maintained seat; breaks	9	4

PT-026	Loading or unloading Posi Track for transport	Plant rollover from ramps or trailer	Poor alignment, slippery ramps, unsuitable loading area	Fatality, serious injury, plant damage	Competent operator; level loading area; rated ramps; exclusion zone; spotter where required	**15**	**4**
PT-027	Transport restraint	Posi Track 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**
PT-028	Maintenance and repairs	Unexpected movement or stored energy	Inadequate isolation, raised lift arms, hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; lower attachments; isolate/depressurise systems	**15**	**4**
PT-029	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**
PT-030	Fatigue during prolonged operation	Reduced concentration and reaction time	Long shifts, repetitive work, heat, vibration	Collision, rollover, poor judgement	Fatigue Management Procedure; scheduled breaks; fit-for-work expectations; supervisor monitoring	**15**	**4**
PT-031	Environmental disturbance	Erosion, vegetation damage or work outside approved limits	Excessive ground disturbance, operating outside work boundary	Environmental harm, client/regulatory action, rework	EMP/SSMP controls; approved work boundaries; erosion controls; supervisor oversight	**12**	**4**
PT-032	Recovery of bogged or disabled Posi Track	Stored energy / recovery equipment failure	Incorrect recovery points, unsuitable equipment, people in line of pull	Fatality, serious injury, plant damage	Planned recovery; rated recovery points/equipment; exclusion zone; competent personnel; clear communication	**15**	**4**
PT-033	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**
PT-034	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**
PT-035	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**
PT-036	Manual handling	Hazardous manual tasks	Handling chains, tools, hoses and attachment components; awkward postures during inspections and maintenance	Musculoskeletal injuries, strains and sprains	Mechanical aids; minimise manual lifting; suitable work positioning; team handling where appropriate; Manual Handling Procedure	**9**	**6**

Controlled Document Notice: This document is a worker-accessible extract from the MCK Group HS-RA-001 Risk Assessment Register. The controlled master register contains the complete risk assessment, action tracking and review information. Refer to the current controlled version for full details.