MCK GROUP – HS-RA-001 DOZER 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; 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
DZ-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defects overlooked or not reported	Plant failure, collision, rollover, injury	Daily Plant Inspection; defect reporting; maintenance system; operator checks before use	15	4
DZ-002	Operator competency	Untrained or unauthorised operation	Inadequate competency verification or unfamiliarity with machine	Serious injury, rollover, plant damage, poor-quality work	Competency verification; training records; supervision; manufacturer instructions; site induction	15	4
DZ-003	Mounting and dismounting dozer	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
DZ-004	Starting and moving dozer	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
DZ-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
DZ-006	Operating on slopes	Dozer rollover	Excessive slope, side travel, loose ground, sudden turns	Fatality, serious injury, major plant damage	ROPS/FOPS; seatbelt; competent operator; slope assessment; travel straight up/down where practicable	15	4
DZ-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
DZ-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
DZ-009	Pushing material	Material or object striking cab	Hidden rocks, stumps, debris or unstable material	Operator injury, windscreen damage, plant damage	FOPS/cab protection; work area inspection; controlled pushing speed; exclusion zone	12	4
DZ-010	Vegetation clearing / pushing trees	Falling tree or limb	Unstable trees, dead limbs, incorrect push direction	Fatality, serious injury, cab damage	Approved clearing method; FOPS/ROPS; exclusion zones; hazardous tree assessment; competent operator	15	4
DZ-011	Forestry and overgrown areas	Hidden stumps, rocks or obstacles	Vegetation obscures hazards and old stumps	Sudden impact, plant damage, operator injury	Slow inspection passes; work area review; communication of known hazards; suitable guarding	12	4
DZ-012	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
DZ-013	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
DZ-014	Operating near overhead powerlines	Electrical contact or arcing	Dozer or attachments entering unsafe clearance	Electrocution, fire, fatality	Identify services; exclusion distances; signage; spotter where required; route planning	15	4
DZ-015	Operating near underground services	Damage to buried services	Ripping, pushing or grading without service identification	Electrocution, explosion, flooding, service outage	Before You Dig; service plans; marking; controlled excavation/ripping; supervisor oversight	15	4
DZ-016	Ripping operations	Unexpected ground reaction / flying debris	Hard rock, buried objects, ripper snagging	Plant damage, operator injury, nearby worker injury	Controlled speed; exclusion zone; competent operator; inspect ground conditions	12	4
DZ-017	Blade operation	Crush or pinch points around blade	Maintenance, cleaning or inspection near raised blade	Crushing, serious injury	Lower blade to ground before exiting; isolation before maintenance; no work beneath unsupported blade	15	4
DZ-018	Hydraulic system	High-pressure hydraulic leak or hose failure	Damaged hose, fitting failure, poor maintenance	Fluid injection injury, fire, environmental spill	Daily inspection; preventative maintenance; isolation/depressurisation before repair; defect reporting	10	4
DZ-019	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; no smoking during refuelling	15	4
DZ-020	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
DZ-021	Dust-generating earthworks	Dust exposure and reduced visibility	Dry ground, pushing fine material, wind	Respiratory irritation, collision, environmental nuisance	Dust suppression where practicable; enclosed cab; PPE where required; speed control; weather awareness	12	4
DZ-022	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; task rotation/breaks where practicable	9	4
DZ-023	Loading or unloading dozer 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

DZ-024	Transport restraint	Dozer 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
DZ-025	Maintenance and repairs	Unexpected movement or stored energy	Inadequate isolation, raised blade/ripper, hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; lower attachments; isolate/depressurise systems	15	4
DZ-026	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
DZ-027	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
DZ-028	Environmental disturbance	Unapproved clearing, erosion or soil damage	Operating outside approved limits, excessive ground disturbance	Environmental harm, client/regulatory action, rework	EMP/SSMP controls; approved work boundaries; erosion controls; supervisor oversight	12	4
DZ-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
DZ-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
DZ-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
DZ-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

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.