

MCK GROUP – HS-RA-001 SIDE TIPPER 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; Driving Heavy Vehicles Procedure; Fatigue Management Procedure; Manual Handling Procedure; Spill Management & Containment Procedure; Relevant heavy vehicle and transport SWMS; Loading & Unloading Plant & Equipment SWMS; Plant Maintenance Register; Training & Competency Register; MCK Group IMS Registers Master.

Risk ID	Risk Event / Activity	Hazard	Causes	Potential Impacts	Current Controls	Initial Risk	Residual Risk
SD-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Road incident, trailer failure, load loss, serious injury	Daily Plant Inspection; defect reporting; maintenance system; driver visual checks before use	15	4
SD-002	Driver competency	Unlicensed or inexperienced operation	Incorrect licence class, inadequate experience or unfamiliarity with combination	Collision, rollover, serious injury or fatality	Appropriate driver licence; competency verification; induction; supervision; training records	15	4
SD-003	Coupling trailer to prime mover	Crush or pinch injury	Person between units, unexpected movement, poor communication	Crushing, serious injury or fatality	Park brakes applied; level ground where practicable; competent driver; clear communication; exclusion from crush zone	15	4
SD-004	Fifth wheel / kingpin connection	Coupling failure or separation	Incorrect engagement, worn or damaged components	Trailer separation, road crash, fatality	Pre-start inspection; tug test; visual confirmation; maintenance inspections; defect reporting	15	4
SD-005	Air brake connections	Loss of braking	Incorrect connection, hose damage, leaks or disconnection	Reduced braking, collision, serious injury	Airline inspection; correct connection; leak checks; maintenance system; daily inspection	15	4
SD-006	Electrical connections and lighting	Loss of lights or indicators	Damaged cable, poor plug connection, electrical fault	Reduced visibility, road collision, infringement	Pre-start light check; secure electrical connections; maintenance and defect reporting	12	4
SD-007	Brake system	Brake failure or poor braking performance	Wear, air loss, poor adjustment, maintenance failure	Collision, jackknife, serious injury or fatality	Scheduled maintenance; daily inspections; fault reporting; roadworthiness inspections where applicable	15	4
SD-008	Tyres and wheels	Tyre blowout or wheel loss	Low pressure, damaged tyre, worn tread, loose wheel components	Loss of control, collision, road hazard	Daily visual inspection; tyre maintenance; wheel security checks; defect reporting	15	4
SD-009	Road travel	Collision or loss of control	Speed, traffic, distraction, poor road conditions	Fatality, serious injury, vehicle damage, public harm	Licensed driver; speed management; route planning; seatbelt; safe following distance; road-condition monitoring	15	4
SD-010	Fatigue during transport operations	Reduced driver alertness	Long travel, early starts, extended workday, insufficient rest	Collision, poor judgement, serious injury	Fatigue Management Procedure; scheduling; breaks; fit-for-work expectations; supervisor monitoring	15	4
SD-011	Reversing and manoeuvring	Collision with people, plant or structures	Blind spots, articulation, restricted space	Crushing, collision, property damage	Competent driver; mirrors/cameras; reversing alarm; spotter where required; low speed; exclusion zone	15	4
SD-012	Turning and articulated movement	Trailer cut-in / rear swing collision	Tight turns, long combination, poor clearance	Collision, property damage, public injury	Route planning; low-speed turns; adequate clearance; spotter where required	15	4
SD-013	Loading side tipper	Falling material / overloading	Poor loading position, excessive material, uneven loading	Cab damage, rollover risk, component overload	Designated loading position; communication with loading plant; load limits; even distribution	15	4
SD-014	Uneven load distribution	Reduced stability	Material loaded unevenly or shifted during travel	Rollover, tyre/suspension overload, loss of control	Even loading; controlled travel; avoid sharp turns; inspect load before departure	15	4
SD-015	Overloading / mass compliance	Exceeding legal or vehicle limits	Incorrect load estimate, excessive material, poor distribution	Brake/tyre overload, poor handling, regulatory breach	Know vehicle limits; load controls; axle/GVM/GCM compliance; operator checks	15	4
SD-016	Side tipping / unloading	Trailer rollover during tipping	Uneven or soft ground, side slope, load shift	Fatality, serious injury, major vehicle damage	Level stable tipping area; tip in line with the slope where applicable; avoid side slopes; ground assessment; exclusion zone; competent driver; tipping only when stationary.	20	4
SD-017	Side tipping near people or plant	Material striking people or equipment	People or plant within discharge zone	Serious injury, fatality, property damage	Large exclusion zone on discharge side; communication; barriers/spotter where required	20	4
SD-018	Side tipping near embankment or edge	Ground collapse / trailer rollover	Tipping too close to edge, weak shoulder or void	Fatality, serious injury, vehicle loss	Safe setback from edges; ground assessment; designated tipping area; supervisor oversight	15	4
SD-019	Raised side tipper body	Contact with overhead powerlines or structures	Body raised beneath services, trees or structures	Electrocution, fatality, structural damage	Check overhead clearance; identify powerlines; designated tipping areas; exclusion distances	15	4
SD-020	Material sticking in body	Sudden release / instability	Wet clay, sticky material, uneven load	Rollover, unexpected movement, equipment damage	Level tipping area; controlled tipping; do not drive or jerk vehicle with body raised to free load	15	4
SD-021	Driving with body raised	Collision, rollover or overhead strike	Operator error, incomplete lowering after tipping	Fatality, serious injury, infrastructure damage	Warning systems where fitted; visual confirmation body fully lowered; controlled departure	15	4
SD-022	Hydraulic tipping system	High-pressure hydraulic failure	Damaged hoses, fittings or poor maintenance	Fluid injection injury, uncontrolled body movement, spill	Daily inspection; preventative maintenance; body support where required; isolation/depressurisation before repair	10	4
SD-023	Working beneath raised body	Body collapse	Hydraulic failure or inadequate support during maintenance	Crushing, fatality or serious injury	Approved body prop/support; isolation; competent maintenance personnel; no access beneath unsupported body	15	2

SD-024	Parking loaded side tipper	Uncontrolled movement	Park brake not applied, unsuitable ground, inadequate chocking	Rollaway, collision, crushing	Suitable parking location; park brakes; chocks where required; shutdown checks	10	4
SD-025	Roadside breakdown or defect	Exposure to live traffic	Breakdown on road shoulder, poor visibility	Worker struck by vehicle, secondary collision	Move to safe location where possible; hazard lights; warning devices; stay clear of traffic; notify management	15	4
SD-026	Maintenance and repair	Unexpected movement or stored energy	Inadequate isolation, raised body, air or hydraulic pressure	Crushing, serious injury, fluid injection	Unsafe Plant Isolation Procedure; competent maintenance personnel; secure trailer; depressurise systems; body support	15	4
SD-027	Refuelling prime mover / associated operations	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
SD-028	Manual handling of tarps and restraints	Musculoskeletal strain / pinch injury	Heavy components, awkward posture, repetitive handling	Sprains, strains, hand injury	Manual Handling Procedure; correct technique; mechanical assistance where available; gloves	9	4
SD-029	Registration and roadworthiness compliance	Use of non-compliant vehicle	Expired registration, unresolved defect, missed inspection	Regulatory action, road incident, loss of accreditation	Vehicle Register; maintenance records; defect management; compliance reviews; roadworthiness inspections	10	2
SD-030	Remote or isolated transport/work sites	Delayed emergency response	Communication blackspots, remote forestry or park work	Serious injury escalation, delayed assistance	Working Alone Procedure; check-ins; radios/phones; emergency contacts; location details; first aid resources	10	4
SD-031	Psychosocial hazards	Psychosocial hazards associated with the task	Delivery schedules, fatigue, remote work and poor communication.	Stress, reduced concentration, psychological injury and increased incident risk.	Worker consultation; work planning; Fatigue Management Procedure; regular breaks; effective communication.	12	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.							