

MCK GROUP – HS-RA-001 SEMI 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
ST-001	Pre-start inspection	Undetected mechanical or safety defect	Inspection not completed, defect overlooked or not reported	Road incident, tipper failure, load loss, serious injury	Daily Plant Inspection; defect reporting; maintenance system; driver visual checks before use	15	4
ST-002	Driver competency	Unlicensed or inexperienced operation	Incorrect licence class, inadequate experience or unfamiliarity with vehicle	Collision, rollover, serious injury or fatality	Appropriate driver licence; competency verification; induction; supervision; training records	15	4
ST-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
ST-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
ST-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
ST-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
ST-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
ST-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
ST-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
ST-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
ST-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
ST-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
ST-013	Loading tipper body	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; load evenly distributed and safe to transport.	15	4
ST-014	Uneven load distribution	Reduced stability	Material loaded to one side or shifted during travel	Rollover, tyre/suspension overload, loss of control	Even loading; controlled travel; avoid sharp turns; inspect load before departure	15	4
ST-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
ST-016	Tipping / unloading material	Trailer rollover while body raised	Uneven or soft ground, side slope, material sticking in body	Fatality, serious injury, major vehicle damage	Level stable tipping area; ground assessment; exclusion zone; competent driver; body raised only when stationary	15	4
ST-017	Raised 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
ST-018	Material sticking in body	Sudden release / instability	Wet clay, sticky material, uneven body load	Rollover, unexpected movement, equipment damage	Level tipping area; controlled body operation; do not drive or jerk vehicle with body raised to free load	15	4
ST-019	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
ST-020	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
ST-021	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
ST-022	Parking loaded semi 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
ST-023	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

ST-024	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 vehicle; depressurise systems; body support	15	4
ST-025	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
ST-026	Manual handling of tarps, tailgates or 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
ST-027	Tailgate operation	Crush or struck-by injury	Unexpected release, people in discharge zone, damaged locking mechanism	Serious injury, property damage	Exclusion zone; inspect locks/hinges; controlled operation; no persons behind tailgate during release	15	4
ST-028	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
ST-029	Mud and debris on vehicle	Road debris / obscured defects	Civil or forestry site contamination, inadequate cleaning	Road hazard, reduced visibility, component wear	Routine cleaning; inspections; remove excessive mud/debris before road travel	9	4
ST-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
ST-031	Psychosocial hazards	Psychosocial hazards associated with the task	High workloads, delivery schedules, long driving hours, remote work, fatigue and poor communication.	Stress, reduced concentration, poor decision making, psychological injury and increased incident risk.	Worker consultation; work planning and supervision; Fatigue Management Procedure; regular breaks; effective communication; reporting pathways.	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.							