RISK ASSESSMENT

Pre-Start Hazard Assessment (PHA) – Light Vehicle Trailer Operation (Box Trailer & Plant Trailer)

Form Reference:	ISO-BMS-RA-034
Plant/Vehicle/Machine Type:	2.5T Box Trailer / 4.5T Plant Trailer
Project/Location:	

Purpose & Scope: This Pre-Start Hazard Assessment (PHA) identifies the tasks, hazards, and required control measures for the safe operation of this vehicle across Consolidated Group of Companies (CG/CTS/JG) sites, including Pilbara mining and civil construction environments. It must be read, understood, and signed by every operator prior to first use, and reviewed whenever conditions, plant, or the system of work change.

ALL OPERATORS MUST SIGN BELOW TO ACKNOWLEDGE THEY HAVE READ AND UNDERSTOOD THIS PHA, AT LEAST ONCE, PRIOR TO THE OPERATION OF THIS MACHINE.

Name	Date	Time	Signature

Approval & Sign-Off

Supervisor/s Responsible for this Document:	
Full Name:	
Location/Project ID:	
Date:	
Signature:	

Follow-Up Review Triggers

Follow-up trigger – review this PHA on change to: use of plant, system of work, plant environment, new information, or plant modification.	Y	N
Is the plant designed to perform the task?	☐	☐
Has the plant been modified from the original condition?	☐	☐

Follow-up trigger – review this PHA on change to: use of plant, system of work, plant environment, new information, or plant modification.	Y	N
Is the plant in good working condition and free of leaks, damage, mud and vegetation build-up?	☐	☐
All identified action items closed out/addressed (plant checks)?	☐	☐
Is the plant safe to operate? (on completion of PHA and any action closures)	☐	☐

Task, Hazard & Control Assessment

Task	Hazard	Initial Risk	Current Control Measures	Residual Risk	Responsible
PRE-START					
Operator competency & fitness for work	Unqualified, unlicensed, unfit, or fatigued operator	**H17**	• Operator holds current VOC (Verification of Competency) for this specific plant item and has completed site induction. • Fit for Work declaration completed; zero tolerance for alcohol and non-prescription drugs. • No operation while affected by fatigue, medication, drugs or alcohol - report to supervisor immediately if unfit.	**L4**	Operator
Pre-start inspection	Undetected plant defect leading to failure during operation	**H17**	• Complete documented pre-start/prestart book covering the items specific to this plant (see below), guards, isolators, e-stops, reversing alarm, beacon, fire extinguisher, first aid kit and spill kit. • Regular scheduled servicing/maintenance per manufacturer's schedule; defects tagged out and reported - do not operate a tagged/defective item. • Registration/inspection current where applicable.	**M8**	Operator
COUPLING & PRE-TOW CHECKS					
Coupling the trailer to the tow vehicle	Trailer disconnection or runaway from incorrect coupling	**H17**	• Tow ball/coupling matched to the trailer's rated coupling size; coupling visually confirmed locked and the safety catch engaged before moving off. • Safety chains crossed and connected to rated attachment points on the tow vehicle - never to the tow ball itself. • Electrical connection (lights/brakes) checked and functioning before departure.	**M8**	Driver
Trailer load rating and towing capacity	Trailer overload or exceeding the tow vehicle's rated towing capacity, leading to loss of control	**H14**	• Trailer's rated Aggregate Trailer Mass (ATM) confirmed against the compliance plate - 2.5T box trailer and 4.5T plant trailer have different rated capacities and must not be	**M9**	Driver

Task	Hazard	Initial Risk	Current Control Measures	Residual Risk	Responsible
			interchanged for loads beyond their rating. • Tow vehicle's rated towing capacity and maximum towball download not exceeded. • Trailer brakes (where fitted, required on the 4.5T plant trailer) checked and functional before towing a loaded trailer.		
Tyre condition (trailer)	Tyre failure from incorrect pressure, wear, or damage	**H14**	• Trailer tyre pressure and tread condition checked at pre-start; spare wheel (where carried) confirmed serviceable. • Reduced speed on unsealed/corrugated roads to reduce tyre stress.	**M9**	Driver
LOADING & LOAD RESTRAINT					
Loading the box trailer	Load shift or items falling from the trailer during transit	**H14**	• Load distributed evenly with the majority of weight forward of the axle(s) to maintain correct towball download. • Load secured with rated straps/tie-downs; trailer cage/sides and tailgate secured before travel.	**M9**	Driver
Loading plant/equipment onto the 4.5T plant trailer	Rollover or loss of control loading plant (e.g. mini excavator, skid steer) onto the trailer via ramps	**H17**	• Rated loading ramps used, correctly angled and secured to the trailer before loading; ramps rated for the plant item's weight. • Plant driven on slowly and straight with a spotter directing the manoeuvre; no personnel on the trailer deck during loading. • Plant secured with rated chains at manufacturer-specified tie-down points immediately after loading, before the trailer moves.	**M8**	Driver
Towing a trailered pressure washer	Instability or equipment damage towing a pressure washer unit mounted on the LV trailer	**M8**	• Pressure washer unit secured to the trailer deck independently of the general load restraint; hoses, reels and fittings stowed and secured before towing. • Fuel/chemical containers on the unit secured and checked for leaks before departure.	**L4**	Driver
TOWING & TRAVEL					
Trailer sway	Loss of control from trailer sway, particularly at higher speeds, in crosswinds, or when overtaken by heavy vehicles	**H14**	• Speed reduced below the posted limit where conditions (wind, road surface, load) increase sway risk. • If sway begins, ease off the accelerator smoothly - do not brake harshly or steer abruptly - until control is regained.	**M9**	Driver

Task	Hazard	Initial Risk	Current Control Measures	Residual Risk	Responsible
Reversing with a trailer attached	Struck-by or jack-knife injury reversing the tow vehicle/trailer combination	**M8**	• Spotter used when reversing in congested areas or where visibility is restricted. • Reverse-parking used where practicable to avoid reversing when departing.	**L4**	Driver
Travel on unsealed Pilbara roads	Loss of control on corrugated, uneven, or unsealed roads while towing	**M8**	• Reduced speed on unsealed/corrugated roads; increased following distance maintained. • Trailer coupling, lights and tyres rechecked at rest stops on longer transits.	**L4**	Driver
UNCOUPLING & MAINTENANCE					
Uncoupling and parking the trailer	Crush injury or trailer roll-away when uncoupling	**H14**	• Trailer parked on level ground with the park brake (where fitted) applied and wheels chocked before uncoupling. • Jockey wheel/stand lowered and confirmed stable before releasing the coupling; coupling released slowly with hands clear of the pinch point.	**M9**	Driver
Maintenance and servicing	Injury during servicing, or trailer returned to service with an unresolved defect	**M8**	• Trailer isolated from the tow vehicle and chocked before any maintenance task begins. • Coupling, safety chains, lights, tyres and (where fitted) brakes inspected per service schedule; defects tagged and reported immediately.	**L4**	Driver / Mechanical Team

Post-Task Activities

Post-Task Activities	Y	N
Ensure all tools are collected & returned to store/workshop.	☐	☐
Remove all waste materials from the area & place in the appropriate bins.	☐	☐
Report any damaged equipment.	☐	☐
Remove any barricades erected if no longer required.	☐	☐
Leave area clear of hazards.	☐	☐
Check area for hydrocarbon spillages.	☐	☐
Remove isolations and complete any permits/certificates if applicable.	☐	☐
Clean the cabin for the next person on shift to ensure a healthy work environment.	☐	☐

Additional Notes

Important: Every person on site must read this document and be familiarised with the underlying risks associated with operating this vehicle. It is the site supervisor's responsibility to check every team member has been briefed and has signed to acknowledge. Please add a note for any new risk identified during operation.

Risk Matrix

Likelihood \ Consequence	1 Insignificant No injury / near miss	2 Minor First aid / medical treatment	3 Significant LTI or restricted work duties	4 Major Fatality or serious permanent injury	5 Catastrophic Multiple fatalities – 50 or more health effects
Almost certain – Expected to happen	H11	H16	E20	E24	E25
Likely – Could happen frequently	M7	H12	H17	E22	E23
Possible – Could happen occasionally	L4	M8	H13	H18	E21
Unlikely – May occur sometime	L2	L5	M9	H14	E19
Rare – May only occur in exceptional circumstances	L1	L3	M6	H10	H15

Risk Rating – Actions Required After Ranking Risk

E STOP	H REVIEW	M PROCEED	L PROCEED
Eliminate or reduce the hazard to acceptable level (e.g. Medium or Low) in order to proceed	Controls to reduce hazard as far as reasonably practicable	With stated controls and supervision	And monitor for changes in conditions

Control the Risk – Hierarchy of Controls

Hierarchy of Controls	Examples of Controls
Elimination	• Design change, change of construction methodology
Substitution	• Use safer substance/chemical • Environmental catchments/sedimentation pools
Isolation	• Guards on power tools; effective screens, barriers and edge protection • Enclose noisy machinery; environmental swales, booms or barriers, paint washout station
Engineering	• Earth leakage device (safety switch) on electrical sources • Use a machine to lift heavy objects; use scaffold rather than a ladder as a working platform
Administration	• Change work practices and safe work method procedures • Tagging and testing procedures or waste sorting
PPE	• Hard hats, glasses, hearing protection, hi-vis vests, safety boots/shoes • (Note: PPE should be the last option to protect people)