Mobile Equipment & Vehicle Safety

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LIST OF VERSIONS							
Version no.	Date	Prepared by:	Reviewed by:	Approved by:	Section	Page(s)	Purpose of modification
1	May 13, 2015	JK	SK		all	all	Original version
2	September 12, 2017	VB	SK		all	all	General Review
3	May 15, 2018	VB	SK		all	all	General Review
4	September 17, 2021	VB	SK		all	all	General Review
5	June 1, 2023	VB	SK	VW	all	all	Transition IMG to Zijin mining
6	January 15, 2026	VB	SK	JL	all	all	Requirements of FMS included and general review

DEFINITIONS APPLICABLE TO THIS DOCUMENT	
Mobile Equipment	Earth Moving Equipment and auxiliary support equipment such as rear dump, water trucks, ore trucks, graders, mobile cranes, dozers and loading equipment are considered mobile equipment, etc.
Light Vehicle	All light duty vehicles whose primary purpose is to carry passengers and light loads including busses, pickup trucks, passengers' vans, and special vehicles such as emergency vehicles under 4500kg.
Bus	All large motor vehicle designed to carry passengers from 8 persons, and more are classified as busses.
RGM	Rosebel Gold Mines N.V.
ANCAP / ENCAP	Australian / European New Car Assessment Program
Contractor	Company assigned by RGM to provide a specific service or work on the RGM sites and/or controlled activities
OEM	Original Equipment Manufacturer
Controlled Activities	Those activities where RGM can enforce rules, regulations and standards.
Mobile Equipment Operator	Person who has been found fit, trained and has been qualified by Rosebel Gold Mines or other certified training institute to operate specific mobile equipment. This includes lump sum contractors, sub-contractors, contracted services, visitors.
Pre-Shift inspection	Required inspection of a piece of mobile equipment or light vehicle completed and signed by the operator at the beginning of each shift.
FMP	Fatigue Management Plan that brings together all the causes, controls and strategies for dealing with fatigue in the workplace in order to keep workers safe.
FMS	The Fatigue Management System (FMS) is a control device designed to detect fatigue signs of drivers and intervene to prevent any incidents.

Defensive driving	Defensive driving describes the practice of anticipating on dangerous situations, despite adverse conditions or the mistakes of others when operating a motor vehicle. All drivers should have a valid defensive driving permit.
Operators permit	A document issued by the Mine Training Department indicating that the permit holder has been found qualified to operate and perform the associated Mobile Equipment.
No idling policy	The No Idling policy is to eliminate unnecessary idling of all vehicles on RGM property. Vehicle idling wastes fuel, degrades air quality, and causes unnecessary emission of pollutants and greenhouse gases that enhance the natural greenhouse effect.
No smoking policy	In accordance with local legislations, it's prohibited to smoke in vehicles. This includes all RGM owned; leased or contractors and visitors' vehicles.
External inspection	All contractors and visitors' vehicles should undergo a third-party inspection at an appointed inspector before entering the RGM site.
Government inspection	All contractors and visitors' vehicles entering RGM sites should have a valid government inspection report and insurance.

Contents

INTRODUCTION

The nature of mining operations and passenger transport necessitates the interaction of mobile equipment, light vehicles, and buses to achieve production objectives. This interaction inherently carries the risk of collisions, which can result in severe or fatal outcomes. Rosebel Gold Mines N.V. (RGM) acknowledges these risks and has established minimum safety requirements aimed at eliminating or minimizing potential hazards. Activities involving proximity to mobile equipment and the daily transportation of employees by bus are recognized as significant risk factors that, if not properly managed, could lead to serious injury or fatality.

PURPOSE

The objective is to eliminate or minimize the risk of fatalities, injuries, and other incidents arising from interactions with light vehicles, mobile equipment, and buses. Additionally, it aims to prevent fatigue-related incidents during controlled activities at RGM. Every effort must be made to reduce the likelihood of accidents by strictly adhering to all safety policies, as well as applicable country laws and regulations. The safe operation of any vehicle shall always take precedence over expediency or shortcuts.

SCOPE

This procedure applies to all light vehicles, mobile equipment, and buses owned or leased by RGM and its contractors, as well as to employees and contractors performing activities on RGM sites and/or during controlled operations. The Mobile Equipment and Vehicle Safety Significant Control Standard (RGM-SRCS-06) serves as a supplement to the RGM Traffic Management Plan (RGM-SRCS-01), ensuring that all traffic movements are conducted in an orderly, efficient, and safe manner to minimize risks within the workplace.

1. MINIMUM REQUIREMENTSPLANT AND EQUIPMENT REQUIREMENTS:

1.1 LIGHT VEHICLES

All **Light Vehicles** shall have the **mandatory safety specifications**:

On access & public roads:

1. Functional seat belts for all occupants (preferred are 3-point seatbelts).
2. Double roll over protection in cab and truck bed.

(Roll over protection is not required if the light vehicle is ANCAP & Euro NCAP 5-star rated)

3. Driver's & side airbag for all vehicles under the category light vehicles
4. One inner and two outer mirrors.
5. Air-conditioning.
6. Suitable means for access and egress, that will always allow three points of contact when entering and exiting vehicles.
7. **Anti-lock braking system (ABS)**: A part of the service brake system that automatically controls rotational wheel slip (prevents skidding) through brake modulation.
8. Primary and secondary braking system.
9. Revolving or flashing beacon light.
10. Functional horn for signaling other personnel or vehicles as needed.
11. Working headlights, taillights, reverse lights.
12. Reversing alarm: vehicles must be equipped with an audible reverse alarm and optionally reverse camera system to ensure safe maneuvering in reverse.
13. Day time running lights or automatic headlights where installation is possible.
14. Reflective taping (magnetic or sticker) on the sides and back of vehicle (i.e. yellow on sides; red on back) to enhance visibility.
15. Signage ID # and RGM or contractor company logo (magnetic or sticker); sides, front and back of the vehicle that allows clear and easy 360° identification from a distance. The recommended color is black lettering on a white reflective background.
16. Fire extinguisher (minimum 2.5lbs) and first aid/emergency kit.
17. Working windshield wipers and washers.
18. Roadside triangles or cones (2) to place in the event of a roadside breakdown.
19. Wheel chocks (2) & wheel nut indicators.
20. Emergency hammer and seatbelt cutter.
21. Vehicle Body Integrity: the body of the vehicle must be free from significant damage that could impair the safety of the vehicle. Windows, mirrors, and doors must be intact and fully operational to ensure visibility and safe entry/exit.
22. Front passenger windows should have a visibility of 75%, according to governmental rules.
23. Valid insurance papers and government inspection report and insurance.
24. Emergency & Security response GPS panic system with tracking system to monitor speed.
25. Valid quarterly inspection at an RGM-appointed inspection facility (applicable for contractor light vehicles)

At mine sites:

1. Same as access & public roads.
2. Two-way radio.
3. Buggy whip (3 meters minimum height above the ground).
4. Off road tires.

1.2 BUSES

All **Buses** shall have the following **mandatory safety specifications**:

On access & public roads:

1. Functional seat belts for all occupants (preferred are 3-point seatbelts).
2. One inner and two outer mirrors.
3. Air-conditioning.
4. Suitable means for access and egress, that will always allow three points of contact when entering and exiting vehicles.
5. Anti-lock braking system (ABS): A part of the service brake system that automatically controls rotational wheel slip (prevents skidding) through brake modulation.
6. Primary and secondary braking system.
7. Revolving or flashing beacon light.
8. Functional horn for signaling other personnel or vehicles as needed.
9. Working headlights, taillights, reverse lights.
10. Reversing alarm: vehicles must be equipped with an audible reverse alarm and optionally reverse camera system to ensure safe maneuvering in reverse.
11. Day time running lights or automatic headlights where installation is possible.
12. Reflective taping (magnetic or sticker) on the sides and back of vehicle (i.e. yellow on sides; red on back) to enhance visibility.
13. Signage ID # and RGM or contractor company logo (magnetic or sticker); sides, front and back of the vehicle that allows clear and easy 360° identification from a distance. The recommended color is black lettering on a white reflective background.
14. 2 ea. fire extinguishers (minimum 5lbs) and first aid/emergency kit.
15. Working windshield wipers and washers.
16. Roadside triangles or cones (2) to place in the event of a roadside breakdown.
17. Wheel chocks (2) & wheel nut indicators.
18. Emergency hammer and seatbelt cutter.
19. Vehicle Body Integrity: the body of the vehicle must be free from significant damage that could impair the safety of the vehicle. Windows, mirrors, and doors must be intact and fully operational to ensure visibility and safe entry/exit.
20. Front passenger windows should have a visibility of 75%, according to governmental rules.
21. Valid insurance papers and government inspection report and insurance.
22. Emergency & Security response GPS panic system with tracking system to monitor speed.
23. Vehicle should be clean and neat, and free of trash, dirt and debris
24. Valid monthly inspection at an RGM-appointed inspection facility (applicable for contractor busses)

At Mine sites:

1. Same as access and public roads.
2. Two-way radio.
3. Off road tires
4. Certified Roll-Over Protection Structure (ROPS)

Note: RGM should have access to all GPS tracking platforms from contractor equipment. Light vehicles and busses that do not comply with the mandatory safety specifications will be denied entry at the RGM main gate.

1.3 MOBILE EQUIPMENT

All **Mobile equipment** shall have the following **mandatory safety specifications**:

1. Adequate lighting (i.e. headlights, tail, turn, brake, strobe, flashing light, work lights)
2. Horn and Reversing alarms (or travel alarms) with a sound level of 87 to 112 dB at 4 feet and with a dominant frequency
3. Functional seat belts for all occupants (preferred are 3-point seatbelts).
4. Two-way radio
5. Air-conditioning.
6. Unique Identification signage that allows clear and easy 360^0 identification from a distance.
7. Mirrors and/or cameras to eliminate/reduce blind spots.
8. Fire extinguisher/fire suppression system, reachable for the operator, for all mobile equipment (size and type based on risk assessment)
9. Effective guarding on accessible moving/rotating parts.
10. All devices needed for normal operation as per Original Equipment Manufacturers instructions/ specifications (including signage).
11. Chock blocks for rubber tired mobile equipment when performing maintenance.
12. Cranes: Crane inspection certification; LMI internal and/or external; grounding wire; anti – two block; weight distribution mats under outrigger feet.
13. Equipment should be clean and neat free of trash dirt and debris.
14. All trucks with payload of 20 Tons and above should have fatigue monitoring system and collision avoidance system, as required by RGM.
15. All trucks with payload of 20 Tons and above should have Emergency & Security response GPS panic system with tracking system to monitor speed.
16. All hauling equipment should have reinforced operator cabin or other means to protect the operator (such as airbags)

Note: RGM should have access to all GPS tracking & Fatigue monitoring platforms from contractor equipment. Mobile Equipment that does not comply with the mandatory safety specifications will be denied entry at the RGM main gate

All equipment leased, rented and contractor owned should not be older than 10 years to ensure safety and reliability.

2. ADDITIONAL REQUIREMENTS FOR MOBILE EQUIPMENT

The following additional requirements shall be in place for mobile equipment:

1. Identified isolation/lockout point in accordance with RGM-SRCS-02 LOTOV procedure.
2. Access & working at heights provisions (i.e. adequate walkways, railing, steps/grab handle combinations and boarding facilities including an alternative path of disembarking in case of emergency) according RGM-PR-04 Fall Prevention procedure.
3. Certified Roll-Over Protection Structure for bush clearing equipment (ROPS).
4. Certified Fall-On Protection System for bush clearing equipment (FOPS)
5. A fire suppression system capable of being activated from both ground and cabin levels or fire extinguishers mounted on equipment.
6. Enclosed & tightly sealed air-conditioned cabins, with consideration of requirements for noise and dust suppression systems and suitable protective glass (e.g. laminated, shatterproof).
   (Formal risk assessment should be conducted with H&S in case of operating mobile equipment with open cabin)
7. A method for transporting supplies and personal items to and from the operator cabin, allowing drivers to continuously maintain three points contact whilst mounting and disembarking equipment (e.g. a backpack or shoulder strap bag).
8. Effective windscreen wipers and washing system.
9. Means for the operator to smash a window and or cut the seatbelt in case of an emergency.
10. Drip pans and pig mat shall be kept near the working areas, in case of oil spills

3. PROCEDURAL REQUIREMENTS:

1. A formal review against the requirements in this document for all new to the site or modified mobile equipment prior to commencement of work shall be in place.
2. Documented Predictive and Preventive Maintenance & inspection program aligned to OEM requirements (including critical equipment and components) shall be in place. This includes a post-maintenance machine check.
3. A Traffic Management procedure including, but not limited to, the requirements as stated in section D, shall be in place.
4. The Management of Change process shall be followed for any changes to light vehicles and mobile equipment (including chances to traffic movements, add on of instrumentation, retrofitted devices, etc.)
5. A procedure and checklist system shall be in place for pre-operation inspection by the operator.
6. Procedures/ instructions shall be in place detailing the operational requirements under testing conditions
7. Seat belts shall be used in all cases for all occupants while in operation / in use.
8. Mobile phones, whether hands free or not, shall only be used by the driver of Light Vehicle, bus and Mobile Equipment whilst parked in a safe area during scheduled breaks.
9. A tire management system shall be in place to address tire related issues including fire, heating, explosion, electrical contact, separations, maintenance, tire changes etc.
10. A program shall be in place to manage driver/operator fatigue.
11. A Formal Journey management plan must be used when traveling includes any of the following, but not limited to:
    - A journey identified as high risk by risk assessment,
    - Travel outside of daylight hours,
    - Route(s) that the driver is unfamiliar with, intermittent or no communication services,
    - Travel to remote or sparsely populated areas (includes roads with limited traffic), and
    - Other high-risk factors identified in the risk assessment.

4 PEOPLE REQUIREMENTS:

1. Operator should have passed Physical examination by a Physician.
2. Light Vehicle & Bus drivers shall complete Defensive Driving (DD) training and obtain an RGM-DD-permit.
3. Recruitment for mobile equipment operators shall encompass past work history (any driving under influence previous 3 years/ reckless driving or endangerment previous 3 years, any moving traffic violation previous 12 months, at fault traffic accident previous 3 years), site testing, and comprehensive medical examinations that confirm fitness for work.
4. Equipment specific and machine specific training requirements shall be defined for all type of Mobile Equipment.
5. Light Vehicle & Bus drivers shall have a valid Government driver's license and a RGM defensive driving permit.
6. Mobile equipment operators shall have a valid Government driver's license, a defensive driving permit and an equipment specific permit or certification.
7. No smoking is permitted while in a company owned, -managed, -rental or -leased mobile equipment.
8. Do not operate any vehicle while under the influence of alcohol, drugs or any special medications.

5 TRAINING REQUIREMENT

Target group	Training	Frequency
All RGM employees & contractors	Defensive Driving	Every 2 Years/ When changes occurred
All RGM employees & contractors	Mobile Equipment and Machine Specific	As required 1. Basic Operating Training – a minimum of 140 hours before evaluation/qualification. 2. Refresher training in case of an incident.
All RGM employees & contractors	Fatigue Management Awareness Training	As required 1. New Employees. 2. Refresher training in case of an incident.

	Notify the H&S department for H&S review for all new to the site mobile equipment, light vehicles & busses This includes RGM-owned or leased and all contractor's equipment.

	Consider installing a collision avoidance system and/or procedures. Where such is not applicable a spotter must be used as much as possible.

	Modifications such as installation of auxiliary electrical devices, chargers, radios, etc., are prohibited

	Appropriate engineering reviews into advances in technology for collision avoidance, safety management systems, fleet management and visibility improvement; should be conducted to determine whether new technology should be implemented or used.

6. TRAFFIC MANAGEMENT PLAN REQUIREMENTS

An RGM Traffic management plan shall address, but not limited to, the following:

1. Segregation of pedestrians, light vehicles and heavy mobile equipment. Including control of mobile equipment movement in areas accessible to pedestrians.
2. Control approaching, refueling, parking, boarding, disembarking, and isolation by production and maintenance crews.
3. Setting of appropriate speed limits, installation and maintenance of road signage and road furniture.
4. Right-of-way rules, including overtaking restrictions and exclusion zones.
5. Clear communication procedures for interactions between all vehicles (e.g. procedure for overtaking.
6. Access planning in areas identified as hazardous and having significant associated risk
7. Designated parking areas for heavy vehicles and light vehicles (including both in pit and around maintenance areas). Parking standards shall include requirements for the immobilization for mobile equipment (e.g. chocking or ditches/trenches) and consideration for breakdown maintenance activities
8. Guidelines for operating under abnormal road conditions (e.g. rain) giving “weather” criteria and stating the responsible person for this decision.
9. A dust control & water management plan for roads, mining and haulage operations shall be in place. Consideration shall be given to extreme wet weather and the issue of over-watering roads.
10. Truck loading/unloading procedures-to avoid material or objects falling from vehicle.
11. Equipment working within the vicinity of overhead power lines.
12. Requirement for (Risk based) road design, inspection and maintenance to be in place considering equipment’s operating envelopes and collision protection (including safety berms).
13. Changes to traffic patterns and road alignments/ locations require the completion of the RGM Management of Change document including a complete Risk Assessment. It is critical that all road changes be communicated immediately to all persons using the road systems.

7. FATIQUE MANAGEMENT:

1. The workstation shall be designed conform standards for Ergonomics
2. RGM shall make sure administration employees are provided with adequate work location to perform work activities.
3. RGM shall make sure the field employees are equipped with the necessary accommodation to work under any weather circumstances.
4. Written and auditable Fatigue Management Plan (FMP) for all operations that have working time arrangements.
5. RGM site shall assess and maintain a hazard/risk assessment and control process document that identifies and lists all fatigue hazards/risks. The register shall be accessible to all relevant personnel, including contractors and emergency personnel.
6. Employer shall ensure the health, safety and welfare of employees and visitors to the workplace regarding fatigue.
   - Have a health and safety management system or plan
   - Consult with employees and those doing the work on fatigue risks
   - Identify and assess fatigue hazards
   - Eliminate or control fatigue risks
   - Provide information and instruction on managing fatigue risks
   - Provide supervision of work practices
7. Awareness, training and education shall be provided to all involved employees about the site’s fatigue policy and procedures.

8. All site personnel including contractors shall be informed about the FMP and have the skills and knowledge. They need to fulfill their roles and responsibilities.

8. SAFETY OBSERVATIONS

All work sites at RGM are subject to regular Safety Observations. ME and Vehicle operations and the requirements of this Standard are included as elements of those observations. Results of the observations, including identified need for re-training or opportunities for program improvement require management follow-up and identified action.

DOCUMENT CONTROL		
Document	Primary File Location	Frequency of review or update

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