

STANDARD OPERATING PROCEDURE

Removing Rocks or Lumps from Between Duals on Haul Trucks

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Revision Number: 3

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REMOVING ROCKS OR LUMPS FROM BETWEEN DUALS ON HAUL TRUCKS

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The following is a step by step procedure on how to complete a specific task or meet a facility specific requirement. Standard Operating Procedures (SOPs) are written for all identified critical tasks. By virtue of the hazard or complexity associated with critical tasks it is paramount that the SOP be followed as written. SOPs contain a listing of high-level hazards associated with the task, for detailed hazard analysis reference the applicable Task Hazard Assessments. SOPs do not replace the requirements contained in the company Standards, Codes, and Processes nor does it replace the need to comply with required legislation. Section 8.0 references documentation that the worker shall understand before work commences.

1.0 PURPOSE

- To establish a company standard to safely and effectively carry out work as it applies to removing rocks or lumps from between dual tires on haul trucks.

2.0 SCOPE AND APPLICATION

- This document applies to all company Heavy Construction Mining operations. Ensure all site specific requirements are being met or exceeded before performing the task.

3.0 HAZARDS AND CONTROLS

- Uncontrolled movement of haul truck.
 - Equipment must be parked on flat level ground; wheel chocks applied and all hazardous energy isolated (locked out).
- Tire rupture from rock, debris, or object between dual.
 - Maintenance personnel to assess the object and tire. If the object is jagged there is a higher probability of cuts. Deflate the outer tire to 10 PSI.
- Tow cable breaking and striking equipment and / or personnel.
 - Inspect cable, shackles, and tow points prior to use; do not use nylon or synthetic slings. Cable must be a minimum ½ inch diameter.
 - Pull steady and in a direct line; ensure cable is attached to a tow point located on the rear of the tow vehicle.
 - Ground personnel are to be a minimum of 1.5 times the radius of the cable away from the cable.
 - Any sling used for pulling must have manufacturer tags removed and identified for use as 'towing only'.
- Rock or debris flying out and striking personnel.
 - Reduce pressure on the object by deflating the tire(s).
 - Clear all unnecessary personnel and equipment from the area.
 - Ground personnel must not stand in the line of fire. They will stand to the side and behind the dual.
 - Pull steady and in a direct line. Use only enough force to pull the object out. Do not jerk and do not use excessive speed.

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- Material falling from haul truck contacting personnel and equipment on ground.
 - Haul trucks must be unloaded prior to work commencing. No work shall commence on loaded trucks.
 - Visually inspect haul trucks for overhangs and loose material.

4.0 CHECKLIST

- Attend all preparatory meetings (i.e.: daily PSI; job scope; review of JSA's and SOP's for the job).
- Complete FLRA cards before starting the work.
- Ensure all personnel involved in the task are aware of the hazards and the controls to be used, as identified in the SOP's; JSA's; and FLRA's.
- Conduct a pre-job inspection of all equipment to be worked on and tools to be used.
- Standard of Training required for working on this job: On-the job training.**

5.0 DEFINITIONS

5.1 Company

Means North American Construction Group Ltd. (NACG) and all directly or indirectly owned subsidiary companies, including joint ventures.

5.2 Company Personnel

Includes the Company's employees, officers, directors, agents, associates, consultants/contractors, temporary employees and third party processors.

5.3 HSE

Refers to the Health, Safety & Environment department.

6.0 PROCEDURE

- 1) Notify maintenance of the stuck rock or lump. Maintenance will inspect and assist with removal.
- 2) Park the truck in a safe location on flat ground. Position rock close to the ground.
- 3) Complete a hazard assessment (i.e. FLRA) for the task. Notify supervision if unsure of task or if there are any hazards outside of the worker's control.
- 4) Isolate hazardous energy (lock out) on truck and install wheel chocks.
- 5) Assess the rock or lump. Is it smooth, frozen material, jagged? What size is it? How deep is it?
- 6) If the object is jagged, deep into the space, or obviously compressing the sidewall considerably, **deflate the outer tire to 10 PSI** and apply tire lubricant around the object.
- 7) Loop a cable sling of at least half-inch diameter around the object and attach with a shackle to the tow cable.
- 8) Attach the tow cable to the rear of the tow vehicle at an appropriate tow point. If it is necessary to use the frame, ensure the attachment point is adequate.
- 9) Take up the slack and use a steady pull until the object is out. Pull in a straight line.
- 10) Assess tires for damage such as tears, flange rings being bent, etc. or signs of bulging.
- 11) Re-inflate tires as required.

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When the object cannot be removed by the above method, drive the truck to a laydown and remove the outer wheel assembly while following applicable procedures.

7.0 NOTES

If this task is to be done by a method different than described in this SOP, the work must **STOP** and the alternate method must be **DOCUMENTED** with an adequate hazard assessment tool such as a JSA. The document must be **APPROVED** by a supervisor before such procedures are implemented.

8.0 REFERENCES

- Alberta Occupational Health and Safety Act, Regulation and Code – Part 12, Section 193, Tire Servicing
- Tire Industry Association Earth Mover Tire Service Training Program
- 950C-C-028 Hazardous Energy Isolation Code

9.0 APPENDICES

- No appendices.