

STANDARD OPERATING PROCEDURE

Raising Lowering Haul Trucks Using Box Hydraulics

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RAISING LOWERING HAUL TRUCKS USING BOX HYDRAULICS



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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 raising and lowering of haul trucks using box hydraulics.

2.0 SCOPE AND APPLICATION

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

3.0 HAZARDS AND CONTROLS

- Uncontrolled movement of equipment.
 - Isolate all forms of hazardous energy as per 950C-C-028 Hazardous Energy Isolation Code. Ensure Park brake is applied.
 - Use wheel chocks.
 - Follow 960C-SOP-111 Live Work; establish communication plan and designate spotters prior to using hydraulics to lift equipment.
 - Operator will stand outside cab when stands/blocking are being placed and removed; engage hydraulic lock out (if available) prior to leaving the cab.
 - Only competent operators are permitted to operate the equipment.
 - Do not rely on unit hydraulics for support. Use properly rated stands or blocks.
- Equipment falling off support stands.
 - Use stands rated for the weight of the equipment and install under manufacturer designated lifting points.
 - Ensure equipment and stands are on firm level ground. Use steel plates if unit is in an area without a concrete pad.
 - To prevent load from slipping, metal to metal contact between stand and load is not permitted. Ensure a barrier (i.e., piece of rubber, softener, etc.) is placed between the stand and the contact surface of the load.
- Material falling from haul truck box contacting personnel and/or vehicles, tools.
 - Ensure haul truck box is free from material, scratch or clean haul truck box if necessary.

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- Use red flagging to cordon off a minimum 2-4 metres area around the raised truck box; attach tags to each side of the red flagging. Flagging distance is dependent on size of haul truck. Refer to 960C-SOP-822 Securing Raised Haul Trucks Box.
 - Do not position vehicles behind raised truck boxes.
- Uncontrolled work area.
 - Keep work area clear of unnecessary tools, equipment, and personnel, erect barriers as required.

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

NOTE: This is a LIVE WORK task. Follow 960C-SOP-111 Live Work: Working on Equipment While it is Running.

6.1 Raising

- 1) Conduct hazard assessment & Live Work Checklist prior to beginning task. Review hazard assessment with all parties involved (operator and maintenance personnel) to ensure a safe work plan has been communicated and primary spotter has been designated.
- 2) Park unit on level, solid ground.
- 3) Operator will set park brake and exit cab.
- 4) Chock wheels.

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- 5) Flag off or barricade area behind haulage truck to ensure people and equipment are clear of the dump area of the box in the event of material falling from the box when raised.
- 6) Place approved box stand under box at designated lifting point.
- 7) Place safety stands and/or blocks underneath truck and near designated blocking points.
- 8) Operator will enter cab.
- 9) Direct operator from a safe location using hand signals to slowly raise the box to make contact with the box stand. Continue raising the box until the wheel assembly in need of repair is at the appropriate height for removal.
- 10) Once the unit is at the proper height, the equipment operator will exit the cab.
- 11) Place engineered stands under designated blocking points.
- 12) Once stands are placed, and personnel are clear of area, the operator will enter the cab.
- 13) From a safe location, direct the operator using hand signals to lower the box until the unit's weight is resting on the stands and/or blocks and the unit's box is completely lowered.
- 14) In the event a crane is required to remove a rear wheel assembly in need of repair, the truck box will be raised and pinned in compliance with the safety precautions identified in Standard Operating Procedure – 960C-SOP-822 - Securing Raised Haul Truck Box.
- 15) Once the unit is resting safely and securely on the stands and/or blocks, the unit will be locked out in accordance with 950C-C-028 Hazardous Energy Isolation Code PRIOR to any maintenance activities being performed.

6.2 Lowering

- 1) Perform a walk around prior to lowering the vehicle and remove any tools or obstructions.
- 2) Conduct hazard assessment & Live Work Checklist prior to beginning task. Review hazard assessment with all parties involved (operator and maintenance personnel) to ensure a safe work plan has been communicated and primary spotter has been designated.
- 3) Remove lock out to facilitate unit operation.
- 4) In the event the hauler's box has been raised and pinned, follow the safety precautions identified in Standard Operating Procedure – 960C-SOP-822 – Securing Raised Box on Haulage Truck. Reposition box stand under truck box at designated lifting point.
- 5) Clear the area. Direct operator from a safe location using hand signals to slowly raise the box to make contact with the box stand. Continue raising the box until the unit is high enough to facilitate removal of engineered stands.
- 6) Once the unit is at the proper height, the equipment operator will exit the cab.
- 7) Remove safety stands and/or blocks and place safely out of the way.
- 8) Once stands are removed and the area is clear of personnel, the operator will enter the cab.
- 9) From a safe location, direct the operator using hand signals to lower box until the unit is resting on the ground and the box is completely lowered.

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10) The operator will set the park brake, shut down the unit and exit the cab.

11) Remove wheel chocks.

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

- Jack manufacturer's operation manual
- Equipment manufacturer's manual for appropriate lifting / jacking points
- Alberta Occupational Health and Safety Act, Regulation and Code – Part 12, Section 193, Tire Servicing
- Alberta Occupational Health and Safety Act, Regulation and Code – Part 14, Sections 208 & 209, Lifting and Handling Loads
- 960C-SOP-111 Live Work: Working on Equipment While it is Running
- 960C-SOP-801 Jacking Large OTR and Haulage Vehicles
- 960C-SOP-822 Securing Raised Truck Boxes on Haul Trucks
- 960C-SOP-504 Hand Tools; Use of
- 950C-C-028 Hazardous Energy Isolation Code

9.0 APPENDICES

- No appendices