

# STANDARD OPERATING PROCEDURE

## Application of Differential Lock on Trucks

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## APPLICATION OF DIFFERENTIAL LOCK ON 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 do it replace the need to comply with the 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 the application of a differential lock on 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

- Damaging the differential.
  - Stop the equipment and put into park before engaging or disengaging the differential.
  - Do not exceed 40 km/hr while driving with the differential engaged.
  - Do not run equipment with the differential lock engaged on dry ground.
  - Ensure the wheels are **not** spinning when engaging the differential lock.
  - To disengage the differential lock, let up on the accelerator pedal to relieve torque and allow the sliding clutch to disengage.
- Loss of turning action
  - Drive as straight as possible while the differential lock is engaged.
  - Drive to road conditions.

## 4.0 CHECKLIST

- ☐ Attend all preparatory meetings (IE: daily PSI; job scope; review of JSAs and SOPs 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 SOPs; JSAs; and FLRAs.
- ☐ 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.**

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## 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

Operation of differential locks may differ between types of equipment. Refer to applicable equipment operating manuals for reference.

- 1) Complete a hazard assessment (i.e. FLRA) for the task. Notify supervisor if unsure or if hazards are outside of the worker's control.
- 2) Ensure equipment is parked on level ground.
- 3) Hold down the differential lock switch located on the dash.
- 4) Wait until light on dash is illuminated to indicate differentials are locked.
- 5) Return the equipment to service.

## 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

- 960C-SOP-012 Driving in The Mine Procedures

## 9.0 APPENDICES

- No appendices.