

## STANDARD OPERATING PROCEDURE

### Extricating Injured/Ill Workers From Shovels Equipped With Emergency Egress Devices

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Revision Number: 4

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## EXTRICATING INJURED/ILL WORKERS FROM SHOVELS EQUIPPED WITH EMERGENCY EGRESS DEVICES

*Tammy Siver*

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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 aiding in safely extricating injured/ill workers from shovels equipped with emergency egress devices.

### 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

- Injury to worker or self when attempting to move workers with acute or traumatic injuries.
  - Complete a hazard assessment (i.e. FLRA, THA, JSA) to identify situation specific hazards and controls to prevent injury during extrication.
  - Do not attempt to rescue injured/ill worker if the rescue attempt causes a threat to your health and safety.
  - Do not attempt to move injured workers who are incapacitated as the result of a traumatic injury (i.e. falling, struck or pinned by object, etc.) until advised by emergency medical personnel.
- Slipping, tripping or falling injury to rescuers or further injury to worker when attempting to extricate injured worker(s) using stairways or ladders.
  - Use site Emergency Response Teams or contact local Fire Department if required.
  - Use available emergency extrication equipment under the direct supervision of trained rescue personnel.
  - Rescuers will wear fall protection harnesses and tie off when there is potential for falling.

### 4.0 CHECKLIST

- ☐ Attend all preparatory meetings (IE: 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.**

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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.

### 5.4 ERT

- Emergency Response Team

## 6.0 PROCEDURE

- 1) Worker notifies supervisor of potential injury.
- 2) Supervisor arrives on scene to perform primary survey.
- 3) Conduct a hazard assessment (i.e. FLRA) prior to boarding the shovel to ensure no additional hazards are present and it is safe to board.
- 4) Supervisor dispatches Emergency Response Team (ERT) to emergency meeting point.
- 5) Supervisor will appoint an escort to meet ERT at the designated emergency meeting point.
- 6) Escort will lead ERT to the injured worker.
- 7) Supervisor will assist ERT as requested.

### 6.1 ERT Procedure

**Note: This procedure is to be used by trained medical personnel only at remote work locations where there is no access readily available to site ERT.**

- 1) Conduct a hazard assessment (i.e. FLRA) prior to boarding the shovel to ensure no additional hazards are present and it is safe to board the equipment.
- 2) Two rescuers will board the shovel bringing one coil of emergency extrication rope and proceed to the location of the injured/ill worker.
- 3) The third rescuer will remain on the ground to pack the blankets inside the litter securing them in place with the patient restraint straps.

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- 4) The two rescuers on-board the shovel will assess the injured/ill worker to determine the nature of the injury/illness. **If the rescuers suspect the injured/ill worker has suffered potential spinal or internal injuries, the injured worker must be packaged for C-Spine immobilization by a qualified Emergency Medical Technician PRIOR to moving the injured worker.**
- 5) One rescuer will remain with the injured/ill worker while the second rescuer moves to the good side landing of the shovel cab with the coil of emergency extrication rope.
- 6) Attach one end of the rope to the handrail and deploy the “free end” of the rope to the ground.
- 7) The ground rescuer will attach the “free end” of the rope to the lifting harness of the litter and signal the rescuer on the shovel deck to hoist the litter.
- 8) The rescuer on the shovel deck will hoist the litter to the deck, remove the lifting rope and proceed with the litter to the location of the injured/ill worker.
- 9) Place the litter on a flat surface and unlatch the patient restraint straps placing them outside the litter.
- 10) Remove one blanket and line the inside of the litter with the second one.
- 11) Once it is safe to move the injured/ill worker, place the litter as close to the worker as safely possible.
- 12) The two rescuers will lift the injured/ill worker into the litter.
- 13) Cover the injured/ill worker with the second blanket and secure the worker with the patient restraint straps.
- 14) Move the injured/ill worker in the litter to the good side deck of the shovel cab.
- 15) Locate emergency descent device on shovel.
- 16) Remove bag from descent device.
- 17) Check carabineer above rope reel to ensure it is securely attached to boom arm.
- 18) Remove the harness strap from the rope on the descent device and attach the rope to the litter harness using the carabineer on the litter harness.
- 19) Untie the emergency extrication rope used to hoist the litter, from the handrail and tie it to the “foot end” of the litter for use as a tag line.
- 20) Ensure the area below the cab deck is clear of personnel.

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- 21) Locate the rope reel of the descent device and deploy it over the side of the deck.
- 22) Deploy the “free end” of the tag line to the ground rescuer.
- 23) Ensure the rope is tight between the litter harness and the descent device by pulling the rope on the “reel-side” of the descent device.
- 24) Both rescuers will secure their safety lanyards to the railing.
- 25) Open swing gate on hand railing.
- 26) The rescuers will man the litter on either side and slide it “foot end” first off the deck of the shovel.
- 27) The ground rescuer will man the tag line of the litter keeping it tight and pulling the litter outward from the shovel as it descends.
- 28) Once the litter is on the ground, the two rescuers aboard the shovel will dismount and assist in moving the injured/ill worker to the emergency transport vehicle.
- 29) The injured/ill worker will remain secured in the litter until removed by medical personnel.

## 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

- No references.

## 9.0 APPENDICES

- No appendices.