

STANDARD OPERATING PROCEDURE

Cleanup Around Loading Units

Document Number: 962C-SOP-028

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Latest Revision Date: Sept 12, 2022

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CLEANUP AROUND LOADING UNITS

5	APP	Sept 12, 2022	Approved	T. Siver	P. Bolduc	Tammy Siver
4	APP	Jul 30, 2019	Approved	Tammy Siver	Katrina Nibourg	Barry Palmer
3	APP	Mar 08, 2016	Approved	T. Siver	G. Kuipers	J. Lambert
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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 the cleanup of pit floors and shovel areas using dozers or loaders.

2.0 SCOPE AND APPLICATION

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

3.0 HAZARDS AND CONTROLS

- Contact between loading equipment and clean up equipment leading to property damage and personal injury.
 - Only competent employees will operate equipment.
 - Ensure radio is working properly prior to equipment operation.
 - Positive radio communication must be made with loading unit operator before entering and exiting loading area.
 - Maintain visual or verbal contact with loading unit operator and other equipment in area.
 - **Clean up activities are NOT permitted within the loading unit's counterweight swing radius.** Clean up equipment are only required to remove lumps from the haul truck driveway, which is outside of the loading unit's counterweight swing radius.
 - Clean up equipment must never back towards loading unit when within bucket swing radius.
 - Clean up equipment must never travel under an elevated bucket or boom sections; watch boom height and articulation.
 - Always ensure area is clear prior to backing up.
 - Loading unit operator must inform clean up equipment operator of machine moves prior to moving.
 - Clean up equipment must receive clear verbal acknowledgement from the loading unit operator prior to performing clean-up activities within the bucket swing radius and when leaving the area.
 - Clean up equipment will enter bucket swing radius only when counterweight is present to confirm safe distance for clean-up. Clean up equipment will maintain 3 metres (10 ft) outside counterweight swing radius. This can be defined by the shovel spotting aids on the counterweight.

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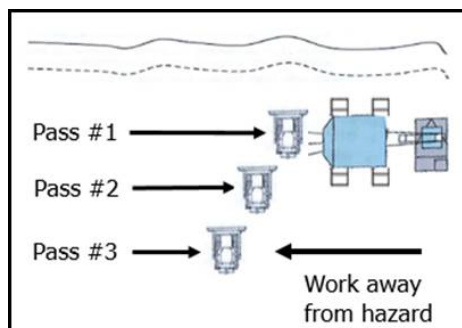
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- When making multiple passes, the clean-up equipment will work progressively away from the loading unit and ensure it is always parallel to the loading unit's tracks.



- Contact between haul trucks and clean up equipment leading to property damage or personal injury.
 - Clean up equipment must understand and listen for horn signals indicating haul truck movement.
 - Loading unit operator must stop trucks that are spotting to load in an area where clean-up will take place. Trucks are not permitted in area until the clean-up equipment has cleared the area.
 - Clean up equipment will clean opposite to the loading side or wait until loading is complete.
 - Clean up equipment will not travel behind haul trucks in the loading area. If clean-up is required, haul truck must pull out and face the loading area prior to clean up equipment advancing into the area.
 - Clean up equipment will not operate within two truck widths of a truck in the loading area; clean up equipment must be stopped and in view of haul truck operator until spotting is complete and haul truck is stopped.
 - Clean up equipment will not impede the flow of the loading cycle and must be parked safely out of this area during active loading.
- Clean up equipment struck by falling material from haul trucks, shovel, or high wall / dig faces.
 - Watch for falling rock or lumps along dig face, as well as cracks in the high wall.
 - Never travel under raised shovel bucket.
 - Never travel between shovel and dig face/high wall unless directed by shovel operator.
 - Stay square to the face and make turn after first pass.
 - Travel in perpendicular motion when working in close proximity to dig faces and high walls.
 - Avoid areas with loose, hanging material.
- Inadequate communication between loading unit and clean up equipment.
 - Perform radio check at beginning of shift (or when equipment is assigned), confirm correct radio channel for area.
 - Communicate radio messages clearly and acknowledge transmission (positive acknowledgement).

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- Clean up equipment contacting electric shovel trailing cable causing damage to cable, loss of power to shovel and potential electrocution.
 - Ensure shovel trailing cable is adequately identified by markers or cones.
 - Be aware of cable locations at all times.
 - Stay a minimum of 3 metres away from trailing cables at all times.
 - Never attempt to drive over trailing cable.

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.**

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 High Wall / Dig Face

The unexcavated face of exposed overburden in a surface mine.

5.5 Positive Communication

Verbal communication that is acknowledged and confirmed by the receiver. Use unit numbers to identify equipment on the radio.



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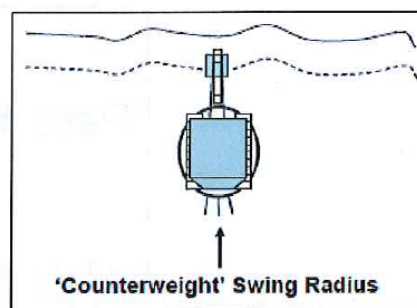
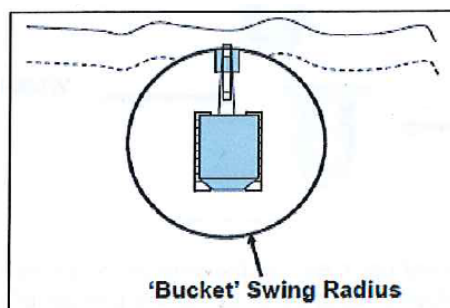
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5.6 Bucket Swing Radius & Counterweight Swing Radius



6.0 PROCEDURE

- 1) Conduct a hazard assessment (i.e FLRA) prior to beginning the task and ensure traffic patterns, haul routes, horn signals and radio channels are understood.
- 2) Complete equipment pre use inspection and checklist prior to operating equipment.
- 3) Report all maintenance and/or safety issues to supervision; have necessary items corrected prior to operating equipment.
- 4) Perform radio check to ensure radio is operating properly.
- 5) Inspect dig faces and pit floors prior to beginning cleanup operations.
- 6) Cleanup equipment will contact loading unit and receive positive acknowledgment to enter the work area.
- 7) The loading unit will position itself to present the counterweight to the side the cleanup equipment is cleaning.
- 8) The cleanup equipment will use the spotting aids on the loading unit's counterweight to confirm they are outside of the swing radius.
- 9) Once the cleanup equipment has been spotted into position the loading unit can continue to either load a truck on the opposite side or work in the face while the cleanup equipment works.
- 10) The cleanup equipment will work perpendicular to the face and away from the loading unit following all other existing procedures.
- 11) The cleanup equipment will notify loading unit once clear of the area. Loading unit will provide positive acknowledgment to cleanup equipment.

7.0 NOTES

If there is a need to clean within the swing radius of the counterweight, supervision must be notified and present for the task. Where possible the loading unit will move out of the area to allow for cleanup. If there is potential for loading unit damage due to movement, the loading unit must ground the bucket in the bank and the operator must exit the seat until the cleanup dozer has left the area. Loading unit activities may resume only upon direction from supervision.

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.

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8.0 REFERENCES

- Alberta Occupational Health and Safety Act, Regulation and Code – {Part 36, Mining}

9.0 APPENDICES

No appendices.