

STANDARD OPERATING PROCEDURE

Cleaning Bitumen off Equipment

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CLEANING BITUMEN OFF EQUIPMENT



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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 cleaning bitumen off equipment.

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

- Weather conditions, location.
 - Follow site specific standards, rules and hazard assessments for working near tailings ponds.
 - When working within 25 meters of water a CGSB approved floatation device must be worn.
 - Working near water alone is PROHIBITED.
- Personal injury.
 - Ensure adequate PPE is worn, slip free boots and boots with metatarsal protection.
 - See 960C-SOP-600 Operating Mobile Pressure Washers.
- Silica exposure.
 - If working outside for 4 hours or more, the employee must wear adequate respirator protection equipment, including a N95 mask or P100 half mask respirators.
- High heat and High Pressure.
 - Ensure specialized PPE is worn for task.
 - Take microbreaks and stay hydrated.
- Unauthorized personnel in area.
 - Ensure signs are in place to warn other workers of hazardous work being performed.

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- Splashing of chemical when pouring into bucket.
 - Ensure eye protection and a face shield are being worn.
- Unknown hazards to health due to use of Degreaser.
 - Read SDS for the degreaser being used prior to start of work, know first aid procedures.
- Inhalation of Degreaser aerosol vapours, inhalation of fumes from steamer engine.
 - Always use and decant degreaser in a well ventilated area.

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.

6.0 PROCEDURE

6.1 Set Up

- 1) Stage pressure washer on level ground near equipment.
- 2) Set brakes.
- 3) Flag and mark work area with adequate and appropriate signage.
- 4) Ensure adequate PPE is worn.
- 5) Connect washer to water tank/supply.

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6.2 Operation of Pressure Washer

- 1) Perform pre-use inspection.
- 2) Start unit.
- 3) Turn washer on.
- 4) Use pressure controller to regulate wand pressure (only use enough pressure to effectively clean object).
- 5) Engage initial spray in an open area pointed at the ground. Ensure no one is in the line of fire.
- 6) Adjust pressure if necessary.
- 7) Clean object.
- 8) Shut down washer.
- 9) Apply Degreaser if required.

6.3 Steps for Applying Degreaser to Equipment

- 1) Pour Degreaser into open top 20 litre bucket with proper WHIMS labelling.
- 2) Dip coarse bristle brush into Degreaser and apply to area to be cleaned.
- 3) Wait approximately 5-8 minutes between applications allow Degreaser to penetrate.
- 4) Wash off area.

6.4 Shut Down

- 1) Turn unit off.
- 2) Release pressure in line.
- 3) Removing flagging and signage.
- 4) Clean area as required, apply sand if needed.

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-600 Operating Mobile Pressure Washers
- 950C-C-054 Silica Exposure Code
- SDS for any chemical being used
- Manufacturer manuals and reference material for engines

9.0 APPENDICES

- No appendices.