

# STANDARD OPERATING PROCEDURE

Hydraulic Hose Manufacturing - Cleaning

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## HYDRAULIC HOSE MANUFACTURING – CLEANING

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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 cleaning process for hydraulic hose manufacturing.

## 2.0 SCOPE AND APPLICATION

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

## 3.0 HAZARDS AND CONTROLS

- Risk of injury from flying debris, Styrofoam projectiles, compressed air discharge, and excessive noise.
  - Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, coveralls, and hearing protection.
  - Do not stand in the line of fire. Ensure that any hose or tool discharging compressed air, projectiles, or debris is pointed away from the worker and others in the area.

## 4.0 CHECKLIST

- ☐ Attend all preparatory meetings (i.e.: 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 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.

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## 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

- 1) Complete a hazard assessment (i.e. FLRA) for the task. Notify supervision if unsure of task or if hazards are outside of the worker's control.
- 2) Inspect tooling and work area prior to task. Remove from service and notify supervision of any damaged or defective tooling. Do not use unsafe tooling.
- 3) Load a new cleaning projectile as per the production instruction tag into the launcher.
- 4) Insert the cleaning nozzle into the hose.
- 5) Launch a cleaning projectile through the hose.
- 6) Make sure that the projectile has left the hose.
- 7) Flip the hose around and repeat steps 3-6.
- 8) Repeat steps 3-7 until the hose assembly is clean.

## 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

- Refer to the Manufacturer's Operation Manual or OEM Parts Manual for operation and setup details.
- Alberta Occupational Health and Safety Act, Regulation and Code
- 950C-C-025 Hand Tools Code
- 950C-C-050 PPE General Code
- 960C-SOP-504 Hand Tools; Use of
- 960C-SOP-505 Hand Tools Powered Use
- 960C-SOP-112 Air Line Control and Dangers

## 9.0 APPENDICES

- No appendices.