

STANDARD OPERATING PROCEDURE

Hydraulic Hose Manufacturing - Marking (Manuli Hose Assemblies)

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HYDRAULIC HOSE MANUFACTURING – MARKING (MANULI HOSE ASSEMBLIES)

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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 manufacturing of hydraulic hoses, so it is done in a manner that minimizes risk to people, equipment, production, and the environment.

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

- Flying projectiles
 - Make sure to wear eye protection when operating Dot Peen marker as the marking pin could fracture and send a hardened piece of the pine flying.
- Pinch Points (Hand Injuries)
 - Make sure that your hands are outside the marking zone and use only the clamping vise to hold pieces to be marked.
 - Never hold pieces to be marked by hand as this could lead to being stabbed in the hand by the marking pin.

4.0 CHECKLIST

- Attend all preparatory meetings (IE: daily PSI; job scope; review of JSA's 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.**

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5.0 DEFINITIONS

5.1 Company

North American Construction Group (NACG) divisions, departments, or subsidiaries.

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

- (a) Lift the marking head well above the vise
- (b) Place shell to be marked into vise and clamp.
- (c) Push "Home" Button on the control to re-establish the home position. **Note! Make sure that the marking head will not crash into anything that might be in the way of head moving to the home position.**
- (d) Run positioning Job as per the Production Instruction tag
- (e) Adjust the Z axis height as per the Production Instruction tag
- (f) Run marking Job as per Production Instruction tag. Make sure that hands are outside of the marking area
- (g) Remove shell from vise

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 or Management of Change process.

8.0 REFERENCES

- Manufacturer's Operation Manual
- Alberta Occupational Health and Safety Act, Regulation and Code 2009 Part 3 Section 12
- OEM Parts Manufacturer's (i.e., Manuli) repair and service manuals
- 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

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9.0 APPENDICES

- No appendices.