

# STANDARD OPERATING PROCEDURE

**Track Removal for Dozers**

Document Number: 960C-SOP-107

Original Approval Date: Mar 29, 2010

Revision Number: 3

Page 1 of 6


Latest Revision Date: Jun 20, 2022

Next Revision Date: Jun 20, 2025

Document Approval Level: 4

\*This document is not controlled if printed.\*

## TRACK REMOVAL FOR DOZERS

						
3	APP	Jun 20, 2022	Approved	Mark Haupt	Rob Sample	Tammy Siver
2	APP	Sep 28, 2011	Approved	Tammy Weishaar	Stan Miller	Stan Miller
<b>Rev</b>	<b>Status</b>	<b>Rev. Date</b>	<b>Status Description</b>	<b>Prepared by</b>	<b>Reviewed by</b>	<b>Approved by</b>

# STANDARD OPERATING PROCEDURE

<b>Track Removal for Dozers</b>		Document Number: 960C-SOP-107
Original Approval Date: Mar 29, 2010	Revision Number: 3	Page 2 of 6
Latest Revision Date: Jun 20, 2022	Next Revision Date: Jun 20, 2025	Document Approval Level: 4

\*This document is not controlled if printed.\*

*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 removing tracks on dozers.

## 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

- Pinching or crushing fingers/hands or other body parts.
  - Stay out of the areas between the front idler and the blade as well as the track frame and push arm when removing or installing the track.
  - Keep fingers/hands away from the pinch points when taking up tension on slings and come-alongs, when pressing pins, or prying master links apart.
  - Do not access undercarriage until unit has been properly raised and blocked or placed on stands.
- Bogie assembly separating from track frame.
  - Use a professional engineer or manufacturer approved bogie strap/suspension strap to secure suspension to track frame.
- Falling or swinging suspended loads striking someone or property.
  - Confirm the weight of the equipment and components/being lifted.
  - Use only jacks and stands certified for the weight to be lifted and supported.
  - Use proper lifting tools. Inspect all lifting equipment and ensure it is of adequate size for the weights involved.
  - Never stand directly in the line of fire. Never stand under a suspended load.
- Uncontrolled movement of equipment.
  - Complete a live work checklist hazard assessment prior to the task.
  - Machine will be shut down and locked out whenever the technician does not need the machine running to turn the tracks.

# STANDARD OPERATING PROCEDURE

Track Removal for Dozers

Document Number: 960C-SOP-107

Original Approval Date: Mar 29, 2010

Revision Number: 3

Page 3 of 6

Latest Revision Date: Jun 20, 2022

Next Revision Date: Jun 20, 2025

Document Approval Level: 4

\*This document is not controlled if printed.\*

- Personal injury from manual lifting tracks and master link.
  - Stretch before task. Do not lift greater than 50 lbs without assistance.
  - Use equipment to move and transports tracks. i.e., forklift or front-end loader.
  - Use two people to manually lift and place track pads for replacement.
- Miscommunication between spotter and operator causing injury or equipment damage.
  - Spotter training.
  - Review hand signals with the spotter.
  - Stop if you lose sight of your spotter.

## 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

- 1) Complete a hazard assessment (i.e. FLRA) for the task. Notify supervision if unsure of task and if there are hazards outside of the worker's control.
- 2) Review OEM procedure for task. Procedures may vary between machine sizes, models and manufacturers.
- 3) Inspect all tooling and equipment prior to being used. Tagout and remove from service any defective or damaged items. Notify supervision.
- 4) Complete a live work checklist hazard assessment.

# STANDARD OPERATING PROCEDURE

Track Removal for Dozers		Document Number: 960C-SOP-107
Original Approval Date: Mar 29, 2010	Revision Number: 3	Page 4 of 6
Latest Revision Date: Jun 20, 2022	Next Revision Date: Jun 20, 2025	Document Approval Level: 4

\*This document is not controlled if printed.\*

- 5) Install bogie strap/suspension strap to secure suspension to track frame.
- 6) Raise the machine with hydraulic jacks until the bogies are off the track.
- 7) Place stands and lower the machine onto the stands. Alternatively, use the machine's implements (review 960C-SOP-401 Raising Blocking and Lowering Dozers using Hydraulic Attachments).
- 8) Lower the blade and ripper.
- 9) Spray paint or otherwise mark the master pads.
- 10) Have a competent operator rotate the track, to bring the master link over the idler.
- 11) Install a two-legged cable sling on the crane and hook them on the pad below the master link.
  - a. Raise the crane to support the lower section of the track.
  - b. Bind a wood block under the grouser of the pad at the floor or ground to safeguard against a sudden drop of the track.
- 12) Relieve tension off the track adjuster before removing the master link.
- 13) Ensure the park brake is engaged before removing the master link as the weight of the track will make a final move forward.
  - o Note: if removing tracks off of the front idler, the dozer blade will need to be raised and placed on stand(s).
- 14) Remove the bolts holding the master link together and pull the pad out (refer to manufacturer specifications to verify weight of track pads and OEM procedures for removal).
- 15) Separate the master link, remove the block and lower the crane so the pad rests on a 2x4 to allow room to remove the slings.
- 16) Ensure all personnel are free and clear of the track frame and the path of travel for the track when it becomes free of the master link. Use the machine's drive to peel the track off the drive sprocket. The track will roll off the idler and pile up or roll out.
- 17) Attach a suitable cable to the end link and use a loader to pull the track clear of the machine.
- 18) Repeat steps 6 through 17 for the other track.

## 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.

# STANDARD OPERATING PROCEDURE

<b>Track Removal for Dozers</b>		Document Number: 960C-SOP-107
Original Approval Date: Mar 29, 2010	Revision Number: 3	Page 5 of 6
Latest Revision Date: Jun 20, 2022	Next Revision Date: Jun 20, 2025	Document Approval Level: 4

\*This document is not controlled if printed.\*

## 8.0 REFERENCES

- Alberta Occupational Health and Safety Act, Regulation and Code – {Part 2, Hazard Assessment, Elimination and Control}
- Alberta Occupational Health and Safety Act, Regulation and Code – {Part 15 Managing the Control of Hazardous Energy}
- Alberta Occupational Health and Safety Act, Regulation and Code – {Part 19 Powered Mobile Equipment}
- 950C-C-028 Hazardous Energy Isolation Code
- 960C-SOP-111 Live Work – Working on Equipment While Running
- 960C-SOP-400 Raising-Blocking Equipment in Shop with Crane
- 960C-SOP-401 Raising-Blocking and Lowering Dozers Using Hydraulic Attachments in a Shop or the Field.
- Manufacturer's (EG: CAT) Service and Procedure Manual

## 9.0 APPENDICES

- Appendix A – Track Components

# STANDARD OPERATING PROCEDURE

Track Removal for Dozers

Document Number: 960C-SOP-107

Original Approval Date: Mar 29, 2010

Revision Number: 3

Page 6 of 6

Latest Revision Date: Jun 20, 2022

Next Revision Date: Jun 20, 2025

Document Approval Level: 4

\*This document is not controlled if printed.\*

## Appendix A Track Components

