

STANDARD OPERATING PROCEDURES FOR SAFETY

LOCKOUT/TAGOUT PROCEDURES FOR HEAVY EQUIPMENT

Rationale: All heavy equipment must have a standard lockout/tagout (LOTO) procedure to ensure the safety of the employees working on or around the equipment while it is being repaired.

Background: All heavy equipment breaks down at one point or another, and many times the repairs must continue into the next shift in order to get the equipment back in service. The **LOTO** procedure required for different equipment varies depending on the complexity of the machine. For example a short-wood harvester requires more functions to be performed than an excavator prior to determining the machine is "at rest".

Procedures:

Generic LOTO procedures have been developed for various pieces of equipment in use across our operations. Contractors have been provided with the LOTO procedure templates relative to their equipment fleet. Contractors must take the generic procedures and customize them for their own equipment. This includes completing the contractor name, location (home base), equipment, and the attachment on the equipment (including contractor's machine number). Contractors must then review the interventions listed on the generic procedures to ensure the work instructions listed apply to their equipment; if not, they must modify the work instructions as required. Each piece of equipment on a jobsite must have a customized LOTO procedure developed, which should be placed in a plastic sleeve with the out-of-service tags, and stored inside the machine. These procedures must be available to the operator, and be produced for inspection when requested. To the right is a sample of a LOTO procedure for a mechanical cut-to-length harvester.

	CONTRACTOR: Majors Logging (example)				LOCATION: Deer Lake, NL (example)				
EQUIPMENT: Tigercat 845 (example)			ATTACHMENT: Waratah (example)						
AND PROPERTY OF SUPERIYORS AND	• • • • • • • • • • • • • • • • • • • •					,			
Interventions	Mechanical hydraulic Pilot valve	Equipment motor	Electric Master Switch (on ignition)	Manual Master Switch	Computer	Mechanical Blocking (A-B-C-D-E)	Work Instructions (1-2-3)		
General mechanical repairs	Locked	Shut down	Locked	Unlocked	N/A		1-3-4-5-6-7-8-9- 10-11-14		
Maintenance and lubrication	Locked	Shut down	Locked	Unlocked	N/A		1-2-3-4-5-6-7-8-9		
Diesel tank filling	Unlocked	Shut off	Locked	Unlocked	N/A		1-2-3-4-5-6-7-8- 9+14		
Oil leakage checking	Unlocked	Operating	Unlocked	Unlocked	N/A	А	1-2-9-10-11-14-15		
Change Chain	Locked	Shut down	Locked	Unlocked	N/A		12-4-5-6-8		
Regulate Pressure	Unlocked	Operating	Unlocked	Unlocked	N/A	А	1-9-10-11-14-15		
Adjustment of measuring wheel	Locked	Operating	Unlocked	Unlocked	N/A	А	1-2-4-5-7-8-14-15		
Adjustment	Unlocked	Operating	Unlocked	Unlocked	N/A		1-9-10-11		
 Maintain a virtual safety para Stay within sight of the opera Keep a radius of 30 m during Position the boom & the fellin Shut off the manual hydraulic If machine has to be left out on must be affixed in the cab incresponsible (mechanic, opera 	tor (when 2 was testing, or tending head (± 1 now a valves of service due dicating mach)	rorkers on the st in a safe zo n from ground to shift chan ine is out of s	e job) one d) in a stable pe ge or waiting fo	or parts, a ta					
	quipment requ	ired for the ty	pe of repair						
For all mechanical work : Wear Individual Protective Ed Place the machine and felling	nead in a sta	Mount and dismount using 3 point contact					Last up-date:		
 Wear Individual Protective Ed Place the machine and felling Mount and dismount using 3 	point contact				- 1				
 Wear Individual Protective Ed Place the machine and felling Mount and dismount using 3 Work in a flat, dry, well lit wor 	point contact rk area free of		ng on machine	e) or use ra	dio to				
Wear Individual Protective Ede Place the machine and felling Mount and dismount using 3 Work in a flat, dry, well lit wor Remain within sight of operations of the communicate Tag removal procedure:	point contact rk area free of ator (when 2	people worki			Prep	ared by:			
Wear Individual Protective Ece Place the machine and felling Mount and dismount using 3 Work in a flat, dry, well lit wor Remain within sight of opera	point contact rk area free of ator (when 2 service tag m jiven to jobsite not available, io or telephon	people worki nust sign off st e supervisor v go to step #2 e and have th	tating machine where they will a machine they will a mem remove tag	can return to be kept on g. If it is impo	work. file. If	ared by:			