UNIVERSITY OF WASHINGTON LOCKOUT TAGOUT (LOTO) PROCEDURE

(WAC 296-803)

DESCRIPTION:					
University of Washington Department/Division:	Building/Address:				
Paul G. Allen School of Computer Science & Engineering	n School of Computer Science & Engineering 3800 E Stevens Way NE, Box 352355, Seattle, WA 98195				
Equipment ID: 2045816	Equipment/System Description: PRS Alpha CNC Router & Vacuum Tie				
Location: CSE2 G15A	Procedure last updated: 2022.12.19				
PURPOSE: (WAC 296-803-20005) This procedure establishes the minimum requirements necess unexpected energization, start up, or release of stored energy sure the machine or equipment is stopped, isolated from all poemployee begins work					
AUTHORIZATION : (WAC 296-803-20005) List any authorized persons authorized to lock and tag out the machine or equipment using this procedure:					
Alexander Lefort, Fabrication Research Lab Manager					
SCOPE: (WAC 296-803-20005)					
Provide a description of the scope of work for this service or mainten	ance work (include the work order #): Work order #:				
Oiling/Greasing Tuning axes Replacement of spoil board.					
NOTIFY : (WAC 296-803-20010) Notify all affected employees that the machine or equipment is to be	shut down and locked out for service or maintenance:				
Name/Job Title:	Notification Method:				
Listserv	E-mail				
Lab Personnel	Sign posted on equipment				
NORMAL SHUTDOWN: (WAC 296-803-20010) Shut down the machine or equipment by normal stopping procedures (such as depressing a stop button, opening switches, or closing valves). List the types and locations of machine or equipment operating controls:					
Shutdown Method:	Location:				
Turn keyed spindle power switch to left, remove key.	eyed spindle power switch to left, remove key. Left side of machine in center of control box.				
Turn control box power knob to 'OFF' position.	Left side of machine on left side of control box.				
Turn vacuum tie-down cut-off box power knob to 'OFF' position.	Left side of machine, right of the control box.				

ISOLATE AND LOCKOUT: (WAC 296-803-20001)

Isolate energy sources using appropriate isolating devices. Lock and tag out the energy isolating devices with assigned individual locks and tags:

WARNING: The following are the known lockout steps. If additional steps are discovered, inform your supervisor, lock them out, and modify this procedure accordingly.



Energy source and magnitude:

Type of energy source: Electrical

Magnitude:

208V 30A

Energy Isolating Device Location:

Left side of machine on control box

Isolation device/procedure:

Turn control box power knob to the 'OFF' position.

Control Method: Lock/Tag Info (Initial and Date)

Apply lock-out pad lock by pressing black part of knob in toward the machine and insert pad lock hasp through revealed hole.

Method to relieve residual/stored energy:

N/A

Verification Method:

Attempt to turn control box knob to 'ON' position.

Restored by: (Initial and Date):

Energy source and magnitude:

Type of energy source: Electrical

Magnitude:

208V 30A

Energy Isolating Device Location:

Left side of machine toward center of control box.

Isolation procedure:

Rotate switch with key inserted to the left until it clicks.

Control Method: Lock/Tag Info (Initial and Date)

Pull the key out and keep in manager's pedestal.

Method to relieve residual/stored energy:

N/A

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Verification	Mathad:

Attempt to turn switch to the right.

Restored by: (Initial and Date):

Energy source and magnitude:

Type of energy source: Electrical

Magnitude:

208V 50A

Energy Isolating Device Location:

Left side of machine, to right of control box.

Isolation device/procedure:

Turn power knob to 'OFF' position.

Control Method: Lock/Tag Info (Initial and Date):

Pull out the knob's forward face to reveal lock-out point. Use lock-out hasp lock by feeding hasp through hole.

Method to relieve residual/stored energy:

N/A

Verification Method:

Attempt to turn knob to 'ON' position.

Restored by: (Initial and Date):

Energy source and magnitude:

Type of energy source: Electrical

Magnitude:

208V 30A

Energy Isolating Device Location:

On back wall behind CNC router. Right-hand box.

Isolation device/procedure:

Pull disconnect lever down until it clicks into place.

Control Method: Lock/Tag Info (Initial and Date)

Feed hasp of a lock-out pad lock through the hole in the disconnect lever.

Method to relieve residual/stored energy:

N/A



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	Verification Method:			
		Attempt to turn on router via c	ontrol box power switch.	
		Restored by: (Initial and Date):		
5		Energy source and magnitude	:	
		Type of energy source: Electri	cal	
Mg ONC HOLD DOWN GISA FED FROU POS WIGHAY CF. 13.5 264-39	SPINOLE GISA POB-NIGLANI3 7-74.11 8/6/30	Magnitude: 208V 5	50A	
F.T.N ON	ur on	Energy Isolating Device Locati	on:	
The state of the s	The state of the s	On back wall behind CNC rout	er. Left-hand box.	
		Isolation device/procedure:		
		Pull disconnect lever down unt	til it clicks into place.	
		Control Method: Lock/Tag Inf	o (Initial and Date)	
		Feed hasp of a lock-out pad loc disconnect lever.		
		Method to relieve residual/sto	red energy:	
		N/A		
		Verification Method:		
		Attempt to turn on vacuum medisconnect.	otor at vacuum	
		Restored by: (Initial and Date):		
GROUP LOTO : (WAC 296-803-50050) Determine which procedures to use if more than one	e person will be involved in t	he LOTO procedure:		
Will more than one person will be invol	lved in this procedure	?		
If you select NO, group LOTO will not be used, sk	· •			
		☐ YES	NO	
If you select YES, a group LOTO will be used, and method below	a describe your group LO i	0		
method below				
Choose a group LOTO method:				
A hasp will be used for this procedure				
A lock box will be used for this procedure	Lock Box Identification #:			
☐ A Primary Authorized Person	Name:			
	Name:			
During shift or personnel changes, make sure there is c		d record the new PAP and date eac	h time there is a change.	

THE MACHINE OR EQUIPMENT IS NOW LOCKED OUT AND SERVICE OR MAINTENANCE CAN BE DONE

RESTORE: (WAC 296-803-50035)

Restore the machine or equipment to service after the service or maintenance is completed.

- **Step 1:** Check the machine or equipment and the immediate area around it to make sure all non essential items have been removed and that the machine or equipment is in operating condition and ready to energize.
- **Step 2:** Make sure all employees are safely positioned for starting or energizing the machine or equipment.
- **Step 3:** Verify that the controls are in neutral.
- **Step 4:** Remove the lockout devices and reenergize the machine or equipment.

Note: Some forms of blocking may require re-energization of the machine before they can be safely removed.

Step 5: Notify affected employees that the servicing or maintenance is completed and the machine or equipment is ready to use.

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Questions? Contact ehsdept@uw.edu