Cal Poly Environmental Health and Safety

Equipment-Specific Hazard Energy Lockout/Tagout Procedures Attachment 9.1, Rev#4

Section A: General Information

PROCEDURE PURPOSE: The purpose of this procedure is to identify all hazardous energy sources present, hazardous energy isolation points; list all required steps to safely shut down the equipment, isolate the energy sources, and return it to service.

This procedure may be used or modified for identical equipment with identical procedures at the same location.

Review the appropriate manufacturer reco Hazardous Energy (COHE) written procedures	mmendations, operating procedures, or identical Conti	rol of								
Equipment Type and Description										
Location (Bldg./Room/Area)										
Reason for Lock Out/Tag Out										
Review or prepare a Job or Task Hazard Analy Review Attachment 9.3, <i>Types, Sources and F</i>	vsis. Review the equipment manufacturer instruction and lab	els if presen								
Section B: Identified Ha	zards and Safety Equipment. Check all that apply									
Identify all types of hazardous energy and its magnitude, if applicable.										
	gy □ Thermal Energy °F □ Radiation¹ essurepsi □ Chemical □ Electrical² 'ressurepsi □ Industrial Piping Voltage	□ Electrical²								
Notes: ¹ Contact EHS for assistance. ² A Qualified Pers	on must complete all electrical work. Use Attachment 9.2 Electrical Safe W	ork Practices.								
Identify all sa	fety equipment and PPE required for lockout/tagout.									
the answer to any Exception question below is	Equipment/Tools used:	ous energy.								
3a Are there written LOTO procedure available for equipment with operational controls configured in identical manner?										
3b. Are the locations for disconnection points (energy isolation devices) identified and										
3c Are the sequence of steps to safely lockout or tagout the machinery or equipment identical?										
3d. Does the machinery or equipment have a single energy supply that is (1) readily identified and isolated and (2) has no stored or residual hazardous energy?										
If there is an Exception, sign here. If applicable, attach p referenced in Question.3a.	rocedures Name: Signatur	e:								
	out/tagout of equipment are notified BEFORE work be	gins.								
Section C: Required Notification										

All Employees affected by this equipment lockout tagout have been notified □ YES □ NA

Cal Poly Environmental Health and Safety Equipment-Specific Hazard Energy Lockout/Tagout Procedures Attachment 9.1, Rev#4

Section D: Written Hazardous Energy Control Procedures Pg. 1 of									
Energy Type and Source	EXAMPL	E: Compressed air							
STEP ONE: Describe the Energy hazards, recognized hazards, and method used to control the hazards.	Hazards in spray to be hose whip by shutting opening be	sed air at 220 psi. nclude pressure ody or injury from o. Control hazard g off equipment, leed valve and ting hose from							
STEP TWO Provide steps to shut down equipment, machine, or system and isolate it from energy source.	and openicompress from tank, from man	ugging compressor ing bleed valve on or tank to drain air disconnect hose ifold. Apply lock n plug. See Fig.1							
STEP THREE Record the Lock and Tag ¹ Identification numbers	Lock ID			ID		Lock ID			Lock ID
STEP FOUR Describe how to verify a Zero Energy state.	compress on and ve	ning air from or tank, turn switch	Tag IL)		Tag ID			Tag ID
STEP FIVE If movement or energized work is required, describe how it will be controlled to prevent injury.	d, describe Not Applicable								
Notes ¹ Tags only, without use of locking device, may be used if the isolation point cannot be locked out or is not readily adaptable to a locking control. Effective means of energy control must be used.									
ALL LOCKS AND TAGS MUST BE ACCOUNTED FOR AFTER LOTO IS COMPLETED.									
Number of Locks			used	sed Number of Locks returned					
Number of Tags		Used		Number of Tags Returned					

Cal Poly Environmental Health and Safety Equipment-Specific Hazard Energy Lockout/Tagout Procedures Attachment 9.1, Rev#4

- 1. **END OF WORK SHIFT:** At the end of the work shift if work is still in progress, do not close out this form. The worker must verify Zero Energy and tags before work begins.
- 2. **CHANGE IN PERSONNEL:** If a different employee will continue the work, refer to Cal Poly COHE plan, Section 3.6.2. Ensure a smooth transition by minimizing hazards from unexpected energization or startup of machine or the release of stored energy.

Section E: Steps to F Add any necessary equip	Y	N	NA						
Step 1. Verify equipment and area is clear of debris.									
Step 2. Unlock and remove any blocking devi									
Step 3. Reposition any safety devices, guards									
Step 4. Warn workers to stay clear of the area									
Step 5. Remove all locks and tags for energy									
Step 6. Verify affected areas are clear of pers									
Step 7. Re-energize the equipment. Note: be certain to consider effects of re-energization on all systems "downstream" of energy source.									
Step 8. Account for all lock and tag used.									
Step 9. Notify supervisor when work is complete									
Step 10. If you find any errors in this procedure, or have suggestions on how to improve it, provide your comments to your supervisor and EHS.									
Step 11. Additional Notes/Steps									
Authorized Person creating procedures. Title: NAME:									
Section F: Procedure Review									
To be completed by Supervisor or Manager.									
Comments:									
Reviewed by:	Title:	Dat	e:						