



## CHAMPS Lockout/Tagout Automating the Process



Innovative LOTO solution for work force safety,  
equipment protection and plant availability





## Focused software solutions for a critical plant process

LOTO processes are critical for protecting your work force from injury and equipment from damage. While most plants and facilities have the required written LOTO procedures, some may have informal or poorly conceived procedures, resulting in activities that may lead to injuries or damage. It is imperative for plants and facilities management to identify and implement LOTO processes and policies that best meet their needs and at the same time offer opportunities for process improvements.

The screenshot shows the 'Tagout - Edit Mode' window. The 'Tagout' tab is active, with other tabs for Enclosures, Work Orders, Impacts, Holders, and Tags. The form contains the following data:

Tagout Id	09-0002	No Route			
Name	(EC-2) Outage Work to Remove Cooling Ductwork	Hang Dt			
Current State	Prepared	Next State			
System	AC	Train	N/A	Outage	
Purpose	Outage Work to Remove Cooling Ductwork. Work includes all Air Handling portions of the system.				
Description	Ensure ARS has been cooled down to 120-140 degrees. Shutdown Cooling per SOP-116. Drawing: 989-865				
Created By/Dt	TR74210	2/16/2009 10:32:33	Prepare By/Dt	IT789321	3/23/2009 06:30:50
Review By/Dt			Approve By/Dt		

Buttons at the bottom: Enclosure, WO Step, Authorize, Verify, Boundary Mgr, Signatures.

No matter what your current LOTO process is, be it manual or automated, we invite you to compare it with CHAMPS LOTO to identify potential improvement opportunities. You will find that our application is a completely integrated system and is based on industry best practices. With CHAMPS LOTO, tagging and clearance activities are performed efficiently, thus maximizing work and minimizing cost. Your changing work force can be quickly trained and ready for work with a centralized system like CHAMPS LOTO, providing an increased focus on tagging and clearance activities.

CHAMPS LOTO can be configured to incorporate your unique requirements. This innovative solution meets or exceeds Occupational Safety and Health Administration (OSHA) regulations, adheres to LOTO guidelines suggested by Electric Power Research Institute (EPRI) and addresses all process options for the Department of Energy (DOE) LOTO requirements.

Let us show you how our comprehensive LOTO solution will enhance your maintenance and operations practices.

CHAMPS LOTO automates tagging and clearance activities for comprehensive planning, scheduling, isolation and performance of work, resulting in enhanced efficiency, productivity and safety.

For an interactive review of the CHAMPS LOTO process, please visit [www.champscmms.com/Library.html](http://www.champscmms.com/Library.html)



# CHAMPS LOTO key features and benefits

## CHAMPS LOTO:

- Offers a completely integrated solution that protects workers and equipment
- Establishes clear roles and responsibilities of plant personnel involved in LOTO, thereby creating consistent work practices
- Clearly documents tagging and clearance policies and practices to demonstrate compliance with regulatory agencies
- Improves outage or overhaul schedules, bringing plants back on-line quicker thereby reducing cost and increasing revenues
- Shares Tags for reducing the time to hang and clear tagouts

## Some additional features include:

- Electronic badge sign-on and off and work authorization
- Auto tagout generation with attachments and special instructions
- Automated conflict checks and resolutions
- Tag Holders Summary displays all supervisors and workers currently signed on to work orders

**Tagout Enclosure - Edit Mode**

Tagout Id: 09-0002  
 Enclosure Id: 1 Enclosure Type: Hang Created By: TR74210  
 Name: Outage Work to Remove Cooling Ductwork. Create Dt: 2/16/2009 10:37:23  
 Current State: Prepared Next State: Prepared  
 Purpose: Outage Work to Remove Cooling Ductwork. Work includes all Air Handling portions of the system.  
 Comments: In the past PBSJX32 breaker BS321X has been used as a temporary y power supply to GR43 Cooling Pump. If this is done, Output Leads will have to be lifted and signs posted at GTE3X9 to denote Load.

Seq	Tag Id	Tag Type	Item Type	EQ/Device Id	EQ/Device Name	Location	Position	Labels	CMT	IV Reqd	Ac
2.0	N/A	Procedure	Device	Procedure	Ensure RCS has been cooled down to 120 F- 140 F degrees.		Complete	0	No	<input type="checkbox"/>	
3.0	N/A	Procedure	Device	Procedure	Shutdown Cooling per SOP-116 III .L		Complete	0	No	<input type="checkbox"/>	
4.0	N/A	No	Equipment	PBSJX32 32F TCP	TRIPPING CNTRL PWR TRF1234C-TS	CD-728-A-09	Breaker Open/Off	0	No	<input type="checkbox"/>	
4.0	N/A	No	Equipment	PBSJX32 32F CCP	CLOSING CNTRL PWR TRF1234C-TS	CD-728-A-09	Breaker Open/Off	0	No	<input type="checkbox"/>	
5.0	PENDING	Red	Equipment	PBSJX32 32F	COOLING SYS FAN B TRF1234C-TS	CD-728-A-09	Breaker Open/Off Racked Out	0	No	<input type="checkbox"/>	
6.0	N/A	No	Equipment	BS321X 61T TCP	TRIPPING CNTRL PWR TRG5678F-TS	CD-728-A-09	Breaker Open/Off	0	No	<input type="checkbox"/>	
6.0	N/A	No	Equipment	BS321X 61T CCP	CLOSING CNTRL PWR TRG5678-TS	CD-728-A-09	Breaker Open/Off	0	No	<input type="checkbox"/>	
7.0	PENDING	Red	Equipment	BS321X 61 A	COOLING SYS FAN D TRG5678-TS	CD-728-A-09	Breaker Open/ Racked Out	0	No	<input checked="" type="checkbox"/>	

Buttons: Comments, Signature, Conflict, Perform

## THE REAL NUMBERS

In an outage at a power plant, CHAMPS LOTO was instrumental in accomplishing the following results:

- Total tags hung: 2630
- Total tags shared: 410
- Number of operator/component interaction saved by shared tags:  $410 \times 4 = 1640$
- Total tagouts hung: 260
- Total procedures performed: 1220
- Total procedure items performed: 7340
- Tagging time saved:  $410 \times 15 \text{ mins} / 60 = 102 \text{ hrs} / 24 = 4.25 \text{ days}$

Please call BJ at 352-795-2362, ext.227 to arrange an on-line demonstration





# CHAMPS

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