

LOCKOUT PROCEDURE

ID#: LP1001

EQ#:

Chiller 1

LOCATION: Central Plant: Inside

SCOPE/USE: This Lockout procedure is required whenever machine guards or other safety devices are removed or bypassed or any hazardous exposure to a point of operation or an associated danger zone takes place.
PURPOSE: This Lockout procedure will bring this equipment (or section) to a fully de energized condition.

EQUIPMENT OVERVIEW PHOTOS		SPECIAL PRECAUTIONS
		<ul style="list-style-type: none"> USE SOP TO DEPRESSURIZE/DRAIN PRIOR TO SERVICING.
LOCKOUT DEVICES USED:		Padlock = 6, Universal Cable Device = 4

LOCKOUT APPLICATION PROCESS (Apply in Order, Top to Bottom)

1. Notify all affected personnel before starting to apply this LOCK OUT procedure.
2. Turn off machinery using normal operating controls and standard shutdown procedures.
3. Isolate energy sources at control points in the order shown below and apply lockout devices and locks.
4. Locks applied to isolation points must be personally identified and in the "secured" position.
5. Authorized personnel must maintain possession of the key(s) for each personal lock applied.
6. Do not work under the protection of a lock you have not personally applied.

ENERGY TYPE	ENERGY ISOLATION POINT OR STEP	APPLICATION METHOD	VISUAL REFERENCE
CONTROL PANEL	HMI: located on unit.	Use SOP to shutdown equipment at HMI.	
ELECTRICAL 160VDC	Electrical Disconnect: E1372 located on unit.	Move disconnect to the OFF position and apply a lockout padlock through the built-in securement hole.	
ELECTRICAL 480V	Electrical Disconnect: E1373 located on unit.	Move disconnect to the OFF position and apply a lockout padlock through the built-in securement hole.	

WATER	Butterfly Valve: W08600 located near unit.	Turn valve to CLOSED position and secure with a lockout device.	
WATER	Butterfly Valve: W08599 located near unit.	Turn valve to CLOSED position and secure with a lockout device.	
WATER	Butterfly Valve: W08601 located near unit.	Turn valve to CLOSED position and secure with a lockout device.	
WATER	Butterfly Valve: W08602 located near unit.	Turn valve to CLOSED position and secure with a lockout device.	

TESTING / VERIFICATION REQUIREMENTS

(If contact with exposed electrical conductors could occur, a qualified person must perform voltage testing to verify zero energy condition)

1. Test for full de energization by turning normal operational controls to the on (or neutral) position and verifying that no machine function or movement occurs.
2. Return all controls to the off position and complete all necessary adjustments or repair work.
3. During testing and adjustment, Lockout must be re-applied when contact with hazardous area(s) is required.

LOCKOUT REMOVAL PROCESS

(Use this Procedure to be sure each locking device has been removed and that each energy source has been restored according to the normal startup procedure)

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| <ol style="list-style-type: none"> 1. Ensure all tools and items have been removed. 2. Confirm that all employees are safely located. 3. Ensure all safety guarding has been replaced. | <ol style="list-style-type: none"> 4. Verify that controls are in off position. 5. Remove lockout devices and reenergize machine. 6. Notify affected employees that servicing is completed. |
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DOCUMENT CONTROL	Written or Updated:	03/22/2022	By:		Version:	1.0
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