

# Job Hazard Analysis

<b>JHA Number</b> 0026-PPD-PLU	<b>Facility</b> University of Vermont	<b>Date Prepared</b> 5/3/2019	<b>Revision Date</b>
<b>Approved by</b>		<b>Analysis by</b> WALKER, CHRISTOPHER	
<b>Description</b> Chilled Water Coil Drain			
<b>Smart Tabs</b>			
<b>Related Job Titles</b>	<b>Related Departments</b> * DAVIS CENTER ZONE * MEDICAL COMPLEX ZONE * PROJECTS ZONE * SOUTH ZONE * UTILITIES ZONE	<b>Related Locations</b>	<b>Related MSDS</b>
<b>Training Requirements</b>			

<b>Additional Description</b>
Chilled water coil drain and blow-down
<p>Common sense should be applied when executing any job. We do our best to implement hazard control measures such as engineering controls, administrative controls and personal protective equipment. When the hazard is still present the use of certain PPE may be required for one or more steps but not all of the steps. However, it may be prudent to don all required PPE for the duration of the JHA.</p>

Step/ Area	Task Step Description	Hazards	Control Measure	PPE Required
01	* Isolate supply and return on coils. * LOTO once isolated (header or main on section)	Cuts, scrapes, falls	PPE LOTO proper ladder use	Safety glasses, UVM Issued; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, leather
02	To drain: * Connect the hose to the low point drain * Put hose into 55 gal plastic drum to collect the water. (If the drain is lower than drum you may need a pump)	possible hazards from the water in the coils unintended shock from the pump	PPE - Use 1/2 Face Respirator with Safety Glasses & Face Shield or FF Respirator	Gloves, chemical resistant, nitrile rubber (802746); Safety glasses, UVM Issued; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Earplug, disposable, foam plastic 33dB
03	* Open drain valve (possibly control valve) * When pressure starts to drop, open the vent	Chemical from water in coils unintended shock from pump	PPE - Use 1/2 Face Respirator with Safety Glasses & Face Shield or FF Respirator GFCI For Pump	Safety glasses, UVM Issued; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, chemical resistant, nitrile rubber
04	* Attach compressed air to the vent with portable air compressor (low PSI better for the blow down, may need a combination of low PSI and high PSI to get the water out)	Cuts, scrapes unintended shock noise ergonomic	Use two people (at least) to move and place the portable air compressor. PPE	Earplug, disposable, foam plastic 33dB ; Safety glasses, UVM Issued; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, chemical resistant, nitrile rubber ; Gloves, leather
05	* Leave drain and vent open and hose attached (if needed) to allow the excess water to drain off			

**Job Hazard Analysis Continued**

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<b>Description</b> Chilled Water Coil Drain			

<b>Step/ Area</b>	<b>Task Step Description</b>	<b>Hazards</b>	<b>Control Measure</b>	<b>PPE Required</b>
06	Drums: * Cap the drums and keep in-place. * If drums need to be moved, use a hand truck. * Add bioside to drum under the direction of manager or supervisor	ergonomic issues caught between slips cuts unintended shock chemical	proper use of hand truck PPE-Use 1/2 Face Respirator with Safety Glasses & Face Shield or FF Respirator	Respirator cartridges, P100; Respirator, full-face; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, chemical resistant, nitrile rubber
07	* Worker should go back a week later to blow down the coil again to prevent freezing of residual water	chemical noise ergonomic unintended shock	PPE-Use 1/2 Face Respirator with Safety Glasses & Face Shield or FF Respirator safe lifting GFCI	Respirator cartridges, P100; Respirator, full-face; Earplug, disposable, foam plastic 33dB ; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, chemical resistant, nitrile rubber

**Prepared By:** \_\_\_\_\_ **Date:** \_\_\_\_\_