

Job Hazard Analysis

JHA Number 0037-PPD-HVAC	Facility University of Vermont	Date Prepared 12/2/2019	Revision Date
Approved by		Analysis by WALKER, CHRISTOPHER	
Description Cleaning of the Fill Packs (Sumps on top of Tower)			
Smart Tabs			
Related Job Titles	Related Departments	Related Locations	Related MSDS
Training Requirements			

Additional Description
<p>This cleaning is to prevent water from coming over cell three on the west side. This is one-step in the larger cooling tower cleaning</p> <p style="text-align: center;">This work shall not be done if there is a chance of lightning, rain or strong wind</p> <p style="text-align: center;">Minimum of two people to complete this task</p> <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	Notify the Central Heating Plant that the HSRF cooling tower will be off line			
02	LOTO of Coolig Tower #2 according to the attached method	Spinning fans	*Follow the LOTO method *LOTO VFD's to tower fans / condenser pumps	Safety glasses, UVM Issued; ASTM F2413-17 M or F/1/75/C75/PR/EH boot/shoe; Gloves, leather
03	Access the tower via ladder	Slips/falls	*Three points of contact at all times *Proper ladder use	Safety glasses, UVM Issued; Shoe/boot, slip-resistant sole; Gloves, leather
04	Gathering of equipment: *Bring all of the needed equipment to the top of the tower	Falls, dropping equipment	*Use of pully system and bucket or basket to raise the equipment to the working level. *Create a safe zone around the area where the bucket is being raised up. This should be a roped off area to keep workers out *workers loading the bucked on the ground level shoud have head protection	Safety glasses, UVM Issued; Shoe/boot, slip-resistant sole; Gloves, leather ; Helmet, Construction

Job Hazard Analysis Continued

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Step/ Area	Task Step Description	Hazards	Control Measure	PPE Required
05	Open and clean each (bosin (not sure if this is correct))in cells (both side of the tower)	Debris in sump Slips/falls	*Watch your step *PPE *All waste material shall be placed in the bucket to be lowered to the ground via the pully system *Maintain the safe zone around the area where the bucket is being raised and lowered. This should be a roped off area to keep workers out *workers loading the bucked on the ground level shoud have head protection	Safety glasses, UVM Issued; Shoe/boot, slip-resistant sole; Gloves, leather
06	Demobilize area: *Gather up all debris and tools *Lower all items down via the pulley system *Descend ladder keeping three points of contact *Ensure all employees are out of the tower	Slips/Falls Ergonomics Cuts	Maintain the safe zone below Get a head count and make sure all are accounted for	Safety glasses, UVM Issued; Shoe/boot, slip-resistant sole; Gloves, leather ; Helmet, Construction
07	Remove locks (LOTO) and restart the equipment	Electrical Fans Moving parts	PPE Authorized LOTO person	Safety glasses, UVM Issued; Shoe/boot, slip-resistant sole; Gloves, leather

Prepared By: _____

Date: _____