Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source			
Beamline Hazard Analysis - Beamline U13UB			
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Prepared By:	J. Rameau, T. Valla	Approved By:	Lori Stiegler

Tasks / Equipment	Performed by:		Controls	
· · ·	Beamline	Users		
	Staff			
Inert compressed gas	Y	N	 Compressed gas training – TQ-COMPGAS1 or NSLS User training Transport cylinders using a cylinder cart Properly secure cylinders Wear safety glasses with side shields while connecting lines Leak check gas lines 	
Solvents	Y	Y	Limit quantities at beamline to < 250 ml	
.			Use PPE - safety glasses, nitrile gloves	
Pouring cryogens ≤ 5L	Y	Y	 Use goggles Long pants and sleeves - avoid clothing which can trap cryogens (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes Never pour from above chest level 	
Using the LN2 Fill Station or	Y	N	LS-PROC-LN2FILL-MANL training for fill station	
pressurized transfer			 Use full face shield along with goggles or safety glasses Long pants and sleeves - avoid clothing which can trap cryogens (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes 	
Liquid helium transfer	Y	N	 Use full face shield along with goggles or safety glasses Long pants and sleeves - avoid clothing which can trap cryogens (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes Use guidance/checklist from PRM 5.1.0 	
Class 2/3a laser	Y	N	Laser registration, warning signs	
Ergonomics concerns – moving/lifting	Y	Y	 Be aware of body posture, Ask for help in moving or lifting 	
Ergonomics concerns – awkward postures	Y	Y	 Be aware of body posture Take frequent breaks 	
High temperature	Y	N	Warning signsTraining	

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Visible light			Covers
			Warning signs
			Training
Cutting/razor blades	Y	Y	Be aware of hand positioning
			Use safety knife when possible
			Consider using cut resistant gloves for frequent
			cutting tasks