Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source				
Beamline Hazard Analysis - Beamline X7B				
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The following tasks are included in the beamline safety review. Any operations not listed here, or performed by others than those listed, need additional review by ES&H personnel and/or beamline personnel.				

Prepared By:	J. Hanson	Approved By:	Lori Stiegler

Tasks / Equipment	Performed by:		Controls	
	Beamline Staff	Users		
Inert compressed gas	Υ	Υ	 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 	
Toxic compressed gases	Υ	Y	 Compressed gas training – TQ-COMPGAS1 or NSLS User training Transport cylinders using a cylinder cart Properly secure cylinders Use small quantities or a ventilated gas cabinet Wear safety glasses with side shields while connecting lines Leak check gas lines 	
Flammable compressed gases	Υ	Υ	 Compressed gas training – TQ-COMPGAS1 or NSLS User training Transport cylinders using a cylinder cart Properly secure cylinders Use small quantities or a ventilated gas cabinet Use a flash arrestor Wear safety glasses with side shields while connecting lines Leak check gas lines 	
Solvents	Υ	Υ	 Limit quantities at beamline to < 250 ml Use PPE - safety glasses, nitrile gloves 	
Pouring cryogens ≤ 5L	Y	Υ	 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 pressurized transfer	Υ	Υ	 LS-PROC-LN2FILL-MANL training for fill station Use full face shield along with goggles or safety glasses Long pants and sleeves - avoid clothing which 	

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			can trap cryogens (pockets, cuffs)Cryogen or heavy glovesEnclosed shoes
Soldering	Υ	N	 Use a designated area, periodically clean surfaces
High temperature	Y	Y	Warning signsTraining
High pressure	Y	Υ	Warning signsTraining
Cutting/razor blades			 Be aware of hand positioning Use safety knife when possible Consider using cut resistant gloves for frequent cutting tasks