Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source				
Beamline Hazard Analysis - Beamline U5UA				
LS-BHA-U5UA	Revision: 02	Effective: 9/28/11	Page 1 of 2	
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:	E. Vescovo, J. Sadowski	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	Y	N	 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	Y	N	 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	Υ	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 pressurized transfer	Υ	Y	 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
Liquid helium transfer	Y	Y	 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
Ergonomics concerns – moving/lifting	Υ	Y	Be aware of body posture,Ask for help in moving or lifting
Ergonomics concerns – awkward postures	Υ	Υ	Be aware of body postureTake frequent breaks
High temperature - bakeout			BLOSA Training
Visible light	Y	Y	CoversWarning signsTraining
Cutting/razor blades	Y	Y	 Be aware of hand positioning Use safety knife when possible Consider using cut resistant gloves for frequent cutting tasks