Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source			
Beamline Hazard Analysis - Beamline U12A			
LS-BHA-U12A	Revision: 02	Effective: 09/28/11	Page 1 of 2
The following tasks are included in the heamline cafety review. Any operations not listed here, or performed by others than			

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:	T. Chen	Approved By:	Lori Stiegler

Tasks / Equipment	Performed by:		Controls	
	Beamline Staff	Users		
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 	
Toxic compressed gases	Y	Ν	 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	Ŷ	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	Y	Y	 Limit quantities at beamline to < 250 ml Use PPE - safety glasses, nitrile gloves 	
Pouring cryogens <u><</u> 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 pressurized transfer	Y	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 	

Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source			
Beamline Hazard Analysis - Beamline U12A			
LS-BHA-U12A	Revision: 02	Effective: 09/28/11	Page 2 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.

			 can trap cryogens (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes
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 postureTake frequent breaks
High temperature	Y	Y	Warning signsTraining
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