Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source				e
Beamline Hazard Analysis - Beamline X18B				
LS-BHA-X18B	Revision:	04	Effective: 6/5/12	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:	S. Khalid	Approved By:	Lori Stiegler

Tasks / Equipment	Performed by:		Controls	
	Beamline	Users		
	Staff			
Inert compressed gas	Y	Y	 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	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 Low ventilation flow alarms 	
Flammable compressed gases	Ŷ	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 Use a flash arrestor Wear safety glasses with side shields while connecting lines Leak check gas lines Low ventilation flow alarms 	
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	 PS-TECH-LN2FILL 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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Class 2/3a laser	Y	Ν	Laser registration, warning signs
Soldering	Y	Ν	 Use a designated area, periodically clean surfaces
High temperature	Y	Y	Warning signsTraining
Nanoparticulate work	Y	Y	Nanomaterial fixed, or HEPA filtered exhaust
Cutting/razor blades	Y	Y	 Be aware of hand positioning Use safety knife when possible Consider using cut resistant gloves for frequent cutting tasks