Brookhaven National Laboratory – Photon Sciences - National Synchrotron Light Source					
Beamline Hazard Analysis - Beamline X17B1					
LS-BHA-X17B1	Revision: 02	Effective: 10/17/11	Page 1 of 1		
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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.

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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 	
Pouring cryogens ≤ 5L	N	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 can trap cryogens (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes 	
Class 2/3a laser	Y	N	Laser registration, warning signs	
Ergonomics concerns – pinch points/sharp edges – hutch door	Y	Y	 Warning signs Training 	
Working at heights – accessing the hutch roof to adjust equipment	Y	N	Be aware of body posture, 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 	