

Beamline Hazard Analysis - Beamline U7A

LS-BHA-U7A

Revision: 03

Effective: 6/5/12

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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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Limit quantities at beamline to < 250 ml Use PPE - safety glasses, nitrile gloves
Pouring cryogenics ≤ 5L	Y	Y	<ul style="list-style-type: none"> Use goggles Long pants and sleeves - avoid clothing which can trap cryogenics (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes Never pour from above chest level
Using the LN2 Fill Station or pressurized transfer	Y	N	<ul style="list-style-type: none"> 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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			<ul style="list-style-type: none"> • can trap cryogenics (pockets, cuffs) • Cryogen or heavy gloves • Enclosed shoes
Manipulating cryogenic samples	Y	Y	<ul style="list-style-type: none"> • Use goggles • Long pants • Impervious disposable gloves over cotton liners • Enclosed shoes • Use tongs or tools whenever possible
Working at heights	Y	N	<ul style="list-style-type: none"> • Be aware of body posture, training
Visible light	Y	Y	<ul style="list-style-type: none"> • Covers • Warning signs • Training
Radiation Generating Device	Y	N	<ul style="list-style-type: none"> • RGD Registration #420 • SOP • Interlock test • Training
Cutting/razor blades	Y	Y	<ul style="list-style-type: none"> • Be aware of hand positioning • Use safety knife when possible • Consider using cut resistant gloves for frequent cutting tasks