

Beamline Hazard Analysis - Beamline X4A

LS-BHA-X4A

Revision: 02

Effective: 9/15/11

Page 1 of 1

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: J. Schwanof, R. Abramowitz

Approved By: Lori Stiegler

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
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"> 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 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
Cryogenic autofill system	Y	Y	<ul style="list-style-type: none"> Ensure hutch ventilation system is operating
Soldering	Y	N	<ul style="list-style-type: none"> Use a designated area, periodically clean surfaces
Material Handling/Crane – beam component movement	Y	N	<ul style="list-style-type: none"> Training