

## Beamline Hazard Analysis - Beamline X15B

LS-BHA-X15B

Revision: 02

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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	Y	<ul style="list-style-type: none"> <li>Compressed gas training – TQ-COMPGAS1 or NSLS User training</li> <li>Transport cylinders using a cylinder cart</li> <li>Properly secure cylinders</li> <li>Wear safety glasses with side shields while connecting lines</li> <li>Leak check gas lines</li> </ul>
Toxic compressed gases	Y	Y	<ul style="list-style-type: none"> <li>Compressed gas training – TQ-COMPGAS1 or NSLS User training</li> <li>Transport cylinders using a cylinder cart</li> <li>Properly secure cylinders</li> <li>Use small quantities or a ventilated gas cabinet</li> <li>Wear safety glasses with side shields while connecting lines</li> <li>Leak check gas lines</li> </ul>
Solvents	Y	Y	<ul style="list-style-type: none"> <li>Limit quantities at beamline to &lt; 250 ml</li> <li>Use PPE - safety glasses, nitrile gloves</li> </ul>
Pouring cryogenics ≤ 5L	Y	Y	<ul style="list-style-type: none"> <li>Use goggles</li> <li>Long pants and sleeves - avoid clothing which can trap cryogenics (pockets, cuffs)</li> <li>Cryogen or heavy gloves</li> <li>Enclosed shoes</li> <li>Never pour from above chest level</li> </ul>
Using the LN2 Fill Station or pressurized transfer	Y	Y	<ul style="list-style-type: none"> <li>LS-PROC-LN2FILL-MANL raining for fill station</li> <li>Use full face shield along with goggles or safety glasses</li> <li>Long pants and sleeves - avoid clothing which can trap cryogenics (pockets, cuffs)</li> <li>Cryogen or heavy gloves</li> <li>Enclosed shoes</li> </ul>
Cutting/razor blades	Y	Y	<ul style="list-style-type: none"> <li>Be aware of hand positioning</li> <li>Use safety knife when possible</li> <li>Consider using cut resistant gloves for frequent cutting tasks</li> </ul>