

## Beamline Hazard Analysis - Beamline X20A

LS-BHA-X20A

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	N	<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>
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>
Class 2/3a laser	Y	Y	<ul style="list-style-type: none"> <li>Laser registration, warning signs</li> </ul>
Ergonomics concerns – pinch points/sharp edges – moving table	Y	Y	<ul style="list-style-type: none"> <li>Training</li> </ul>
Soldering	Y	Y	<ul style="list-style-type: none"> <li>Use a designated area, periodically clean surfaces</li> </ul>
High temperature – heating stage w/Be dome	Y	Y	<ul style="list-style-type: none"> <li>Training</li> </ul>
Beryllium use	Y	Y	<ul style="list-style-type: none"> <li>Handle articles with gloves,</li> <li>Leave area and contact OpCo if damaged</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>