

Beamline Hazard Analysis - Beamline X13A

LS-BHA-X13A

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	
Solvents	Y	Y	<ul style="list-style-type: none"> Limit quantities at beamline to < 250 ml Use PPE - safety glasses, nitrile gloves
Using the LN2 Fill Station or pressurized transfer	Y	Y	<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 cryogenes (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes
Liquid helium transfer	Y	Y	<ul style="list-style-type: none"> Use full face shield along with goggles or safety glasses Long pants and sleeves - avoid clothing which can trap cryogenes (pockets, cuffs) Cryogen or heavy gloves Enclosed shoes Use guidance/checklist from PRM 5.1.0
Ergonomics concerns – moving/lifting – cryogen transfer line	Y	Y	<ul style="list-style-type: none"> Be aware of body posture, Ask for help in moving or lifting
High temperature – vacuum bakeout	Y	N	<ul style="list-style-type: none"> Warning signs Training
Visible light	Y	Y	<ul style="list-style-type: none"> Covers Warning signs 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