

BeamLine Operations and Safety Awareness (BLOSA) Checklist

Beamline X18B

All users must be instructed in operating the beamline safely. Leave checkbox blank if not applicable. Training valid 2 years. Visitors use Visitor/Escort forms.

EMERGENCIES

- Exits R Locate routes to nearest exits
- Fire Extinguishers R Locate fire extinguisher
- Alarm Pulls R Locate fire alarm pull
- Eye Wash/Shower R Locate eye wash/shower [For labs without eye wash stations, prop open door if using corrosives]
- Spill Station R Locate spill control station
- Green/Yellow Boards R Locate/discuss Green Board (beamline emergency contacts, phones and info) and Yellow Board (safety info)
- Emergency Stop A Locate emergency stop buttons, review purpose and operation

CONTACTS

- OPCO R Refer to instructions posted on the beamline phone for Operations Coordinator (OPCO) Assistance

BEAMLINE OPERATIONS

- Hutch Interlocks A Review hutch interlock operations; emphasize that purpose of interlocks is to prevent injury when beam is on
- User Interlocks B Review procedures for Proteus, vacuum, and shutter
- Enabling Beamline R Review procedures to enable beamline
- Red & Yellow Tags R Provide information about any beamline equipment or systems that are yellow or red tagged
- Beamline Config R Configuration changes to beamline are to be completed by Beamline Staff only
- Monochromator B Review energy ranges for monochromator
- Power Failure A Identify circuit breaker location; user may reset 1X with PPE & electrical training - review procedures; call OPCO for unknown cause
- Water Valves A User may adjust water shut-off valves (review location and procedure)
- Air Valves A User may adjust air shut-off valves (review location and procedure)
- Gas Valves A User may adjust gas shut-off valves (review location and procedure)
- Pink Cards R Beamline may be unattended up to 24 hours unless SAF states "no unattended operations" (review procedure)

END STATION / EQUIPMENT

- Computer Ops R Reminder to review computer operations, control software, data acquisition software
- End Station Config B Refer to beamline manual for changes that user can make
- Equipment Vacuum A User is permitted to perform vacuum work and bleed ups on end station equipment (review procedures)

DOCUMENTATION

- Beamline Manuals R Review location of manuals and beamline documentation (must be readily available)
- Reminders R Identify location of Experimental Reminders list posted at the beamline

LAB & TECH AREAS

- Procedures A Review procedures for use of lab (including request form and PPE) and/or tech space (non-lab) area

EXPERIMENTAL HAZARDS

- Radiation Hazards R Identify radiation locations; inform user to move away from area and call control room if chipmunks sound off
- Electrical A Some detectors have high voltage; use caution
- Chemicals A Review use, labeling, storage, spills, labs, disposal, and transportation of chemicals
- Cryogenics A Cryogen use at beamline or lab: Review filling, demonstrate use, wear PPE (eye and skin protection)
- Cryogen Fills A Cryogen Filling Station: Review filling, demonstrate use, wear PPE (eye and skin protection)
- Compressed Gas A Review use and storage
- Vent System A Review use and procedures for ventilation system and for ventilation alarms, if present
- Beryllium A Identify location of beryllium articles or beryllium windows and procedures for notification in case of breakage
- Nano Materials A Verify nano training and, if applicable, review procedures for nano hood and glove box
- Alignment Laser A Alignment laser is present at this beamline (avoid direct eye exposure)
- PPE A Safety glasses are required inside hutches
- Burns A Avoid contact with heating stage in hutch if used in experiment (can cause burns)
- Hazard Analysis R Identify location of beamline hazard analysis form

ENVIRONMENTAL WASTES

- Storage - SAA A Identify location and review procedures for Satellite Accumulation Area; provide SAA manager's name

CLOSE OUT

- Disabling Beam B Secure the beamline BUT ask beamline staff if the shutter should be disabled
- Shipping A Review shipping procedures: <http://www.nsls.bnl.gov/users/services/shipping.asp>

I understand the instructions given to me on beamline operations and safety awareness.

Designated BLOSA trainers for this beamline:

PRINT User Name	Guest #	User Signature	Date	Trainer's Signature	√ UAdm

- S. Khalid
- N. Marinkovic
- A. Frenkel
- S. Ehrlich