

# BeamLine Operations and Safety Awareness (BLOSA) Checklist

Beamline X22B

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
- Enabling Beamline R Review procedures to enable beamline
- Energy B User if not permitted to adjust the monochromator upstream of the hutch
- 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
- Power Failure A Identify circuit breaker location; contact OPCOs to reset circuit breakers
- 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 A Configuration changes to end station equipment may be completed by User (review procedures & change limits)
- Water Interlocks B Review location and purpose of Proteus interlock panel (water flow)
- Equipment Vacuum A User is permitted to perform vacuum work and bleed ups on end station equipment (review procedures)
- Spectrometer B Review limits for spectrometer

## DOCUMENTATION

- Beamline Manuals R Review location of manuals and beamline documentation (must be readily available)
- Data Logbook B Review use and location of Experimental Data Logbook
- 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
- Lead B Review location of beamline shielding (lead); if lead is touched, wash hands
- Electrical Work A No work on exposed electrical components >50V
- Chemicals A Review use, labeling, storage, spills, labs, disposal, and transportation of chemicals
- Compressed Gas A Review use and storage
- 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
- Burns B Avoid contact with chamber during bake out (can cause burns to the skin)
- Burns A Avoid contact with heating stage in hutch if used in experiment (can cause burns)
- Prevent Injuries B Use caution when moving and stepping around in hutch to get to vacuum (tight spaces)
- Hazard Analysis R Identify location of beamline hazard analysis form

## ENVIRONMENTAL WASTES

- Disposal - Sharps A Place cover slips, tips, needles in sharps container
- Storage - 90 Day A Identify location and procedures for 90-Day Storage Area
- Storage - SAA A Identify location and review procedures for Satellite Accumulation Area; provide SAA manager's name

## CLOSE OUT

- Disabling Beam A Secure the beamline and disable shutter/beam before you leave
- Housekeeping A Ensure beamline area is neat, clean, free of hazards
- 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

- J. Hill
- B. Ocko
- M. Fukuto
- S. Wilkins