

# BeamLine Operations and Safety Awareness (BLOSA) Checklist

Beamline X17B2ss

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
- Hutch Interlocks B Be sure to check inside the hutch for other people when interlocking
- Beam Pass Through B Check Safety Approval Form to see if beam is in "beam pass through" position (review procedures)
- 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
- Power Failure A Identify circuit breaker location; contact OPCOs to reset circuit breakers
- Air Valves B User may adjust air shut-off valves (when applicable to experiment)
- 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 are to be completed by Beamline Staff only
- Optics A Review optical system set up and procedures
- Detector B Check that High Voltage Cable on Detector is correctly connected
- Heater Cables/Supp B Check Heater Power Supply and High Current heater cables (may be connected, be aware of status)

## 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
- 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
- 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)
- Ladders A If ladder to be used, discuss ladder set up, safety and 3-point rule
- Prevent Injuries B Upper Ram: Keep hands clear as ram descends (if sample adjustment is needed, raise ram up to safety catch)
- Prevent Injuries B Upper Ram: Keep hands clear as ram ascends (and keep top of platen clear)
- Prevent Injuries B Rockland Displacement Pumps (both): Keep hands clear; keep top of platen clear
- Prevent Injuries B Operating Press: Operate press from inside hutch when door is open; operate outside when door is closed
- Beam Stop B Water cooled beam stop between X17B2 and X17B3 is controlled from X17B3 work area; Never place anything on top or below because it can be moved by someone else
- Hazard Analysis R Identify location of beamline hazard analysis form

## ENVIRONMENTAL WASTES

- Disposal - Sharps A Place cover slips, tips, needles in sharps container

## CLOSE OUT

- Disabling Beam A Secure the beamline but DO NOT disable shutter (beamline is shared with another beamline)

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

- Michael Vaughan
- Haiyan Chen
- Zhong Zhong
- Matt Whitaker