

# BeamLine Operations and Safety Awareness (BLOSA) Checklist

# Beamline X21

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.

### ACCESS

- Training - Laser A If Class 3B or 4 laser is required for experiment, verify laser training and eye exam: [www.bnl.gov/training](http://www.bnl.gov/training)

### 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 procedure for user interlocks
- 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 monochromator set-up
- 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 Only beamline staff or OPCOs are permitted to adjust water shut-off valves
- Air Valves A Only beamline staff or OPCOs are permitted to adjust air shut-off valves
- Gas Valves A Only beamline staff or OPCOs are permitted to adjust gas shut-off valves
- 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)
- Valve Control B Review procedures for end station valve control
- Water Valves B User may adjust water shut-off valves (review location and procedure)
- Air Valves B User may adjust air shut-off valves (review location and procedure)
- Gas Valves B User may adjust gas shut-off valves (review location and procedure)
- 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

### 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 B Review cryogen fill procedures for magnet
- 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
- Magnetic Fields A Magnetic fields present at this beamline - Users with medical devices/implants must notify NSLS ESH Staff
- Ladders A If ladder to be used, discuss ladder set up, safety and 3-point rule
- Hazard Analysis R Identify location of beamline hazard analysis form

### ENVIRONMENTAL WASTES

- 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
- Storage A Review storage procedures for samples

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. LaMarra
- L. Berman
- C. Nelson
- Priya Chinta (CUs)
- Alex DeMasi (CUs)