

BeamLine Operations and Safety Awareness (BLOSA) Checklist

Beamline X20C

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

- Laser Users B For standard operators and users, laser steps down to Class 2 (only Laser OJT on SOP required)
- Laser Operator B For set up operators, Class 3B is used and then stepped down to Class 2 (verify training and exam; provide laser OJT on SOP)

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
- 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; user may reset 1X with PPE & electrical training - review procedures; call OPCO for unknown cause
- Gas Valves A User may adjust gas shut-off valves (review location and procedure)
- Problems B Review procedure for reporting problems and requesting repairs
- 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
- Computer Ops B Review User ID, data dir, backups, UPS
- End Station Config A Configuration changes to end station equipment may be completed by User but requires approval by Beamline Staff (review procedures and change limits)
- 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 Work A No work on exposed electrical components >50V
- Electrical B Do not plug any equipment into UPS
- 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
- Freezing Temps B Caution working with water cooling/recirculating chiller (low temp 6 degrees)
- Prevent Injuries B Use caution in hutch when moving diffractometer, table, equipment arms
- Hazard Analysis R Identify location of beamline hazard analysis form

ENVIRONMENTAL WASTES

- Disposal - Sharps A Place cover slips, tips, needles in sharps container
- SAA - Solder B Review procedure and location for temporary SAA (for soldering or other wastes)

CLOSE OUT

- Disabling Beam A Secure the beamline and disable shutter/beam before you leave
- Housekeeping B Review procedure for return of tools, housekeeping, recycling
- 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>
- Storage A Review storage procedures for samples

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

Only these trainers can provide BLOSA for this beamline:

PRINT User Name	Guest #	User Signature	Date	√ UAdm

J. Jordan Sweet C. Lavoie C. Cabral

Trainer: Check Box, Sign Here

Date