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 repeeting 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.

Designated BLOSA trainers for this beamline:
- ☐ J. Jordan Sweet
- ☐ C. Lavoie
- ☐ C. Cabral

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