

BeamLine Operations and Safety Awareness (BLOSA) Checklist

Beamline X27C

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
- 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 Beamline Staff or OPCO 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 are to be completed by Beamline Staff only
- Equipment Vacuum A Only Beamline Staff are permitted to perform vacuum work and bleed ups on end station equipment
- Optics A Review optical system set up and procedures
- Hot Stages B Review procedures for using pneumatic operating bar for two hot stages (if applicable)

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
- Radiation UV Ring A Move away from UV ring, mezzanine, platform, transfer lines, and front end during injection
- Electrical Work A No work on exposed electrical components >50V
- 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 A Cryogen Filling Station: Review filling, demonstrate use, wear PPE (eye and skin protection)
- Compressed Gas A Review use and storage
- Vent System B Use vent system for experiments involving polymers at high temperatures
- Beryllium A Identify location of beryllium articles or beryllium windows and procedures for notification in case of breakage
- Burns A Avoid contact with heating stage in hutch if used in experiment (can cause burns)
- Lifting B Use caution when changing equipment to prevent injury; keep weight close to body; ask for assistance
- Hazard Analysis R Identify location of beamline hazard analysis form

CLOSE OUT

- Disabling Beam A Secure the beamline and disable shutter/beam before you leave
- 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

- L. Rong
- J. Zhu