BeamLine Operations and Safety Awareness (BLOSA) Checklist — Beamline X17B3

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

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 OPCOs to reset circuit breakers
☐ Air Valves	A	Only beamline staff or OPCOs are permitted to adjust air shut-off valves
☐ 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

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
☐ Electrical Work	A	No work on exposed electrical components >50V
☐ Electrical	A	Some detectors have high voltage; use caution
☐ Cryogens	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)
☐ 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	B	Secure the beamline BUT ask beamline staff if the shutter should be disabled
☐ Housekeeping	A	Ensure beamline area is neat, clean, free of hazards

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

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

Designated BLOSA trainers for this beamline:
- ☐ Zhiqiang Chen
- ☐ Xinguo Hong