NSLS-II Beamline Specific Training Form 10-ID

ACCESS

☐ F Signs and Placards  Locate and discuss all posted signs and placards (Hazard Info Placard, contact info, PPE)
☐ EB Hutch Access  Train user for Beamline Hutch Search and Secure and Breaking Security. Be aware of moving door hazards
☐ F Safety Approval Form  Users must review SAF; review controls and other training for SAF or beamline
☐ F Lead Experimenter  Lead Experimenter must ensure that safety, training, and reporting requirements are completed

EMERGENCIES

☐ F FLOCO/Control Rm  Discuss process to contact a Floor Coordinator (FLOCO) and the Control Room for assistance
☐ F Beamline Staff  Discuss process to contact Beamline Staff for assistance and operations (emergency contact info, phones)
☐ F Emergencies  Discuss where to go and who to contact during an emergency. Locate exits and fire alarm pull boxes
☐ F Eye Wash/Shower  Locate eye wash/shower
☐ F Spill Station  Locate spill control station
☐ F Emergency Beam Stop  Locate emergency beam stop buttons, discuss purpose and operation
☐ F Radiation Monitors  Identify radiation monitor locations, move away from area, call control room if area monitors sound off
☐ F Oxygen Monitors/Alarms  Locate hutch ODH monitors, discuss alarm response, verify green light is on, discuss LOB receiving room access

BEAMLINE EQUIPMENT

☐ F Mezzanine Access  Access to mezzanine, areas above hatch roof, staircase is not permitted
☐ F User Authorization  User is authorized to operate ONLY the equipment the user has been trained on - review operation and hazards
☐ EB User Labyrinth  Discuss proper steps and precautions to take for use of the user labyrinth
☐ B1 Electrical Outlets  Note outlet colors; do not plug equipment into sensitive or UPS outlets w/o beamline staff approval
☐ B2 Equip Stop Buttons  Review operations for equipment stop buttons and safety edges and when to use them
☐ B E-stop Buttons Reset  User ☐ is ☐ is not authorized to reset the E-stop system after use; if authorized review reset procedure
☐ B CryoStat  User ☐ is ☐ is not authorized to make changes to cryostat; if authorized, review operations
☐ B CryoStream  User ☐ is ☐ is not authorized to operate
☐ B Detector  Review detector location, operations, hookups, cables, fill frequency, cautions for high voltage and equip damage
☐ B High Temp Apparatus  User ☐ is ☐ is not authorized to change apparatus and temp controls (review operations; prevent burns)
☐ B Laser Training & PPE  If operating Class 3B or 4 laser, verify BNL laser training, beamline laser training, eye exam, PPE
☐ B Laser Present  Laser present at this beamline (avoid direct eye exposure)
☐ B Laser Interlocks  Only beamline staff and FLOCOs are permitted to reset laser interlocks
☐ B1 Monochromator  Review operations for energy ranges, set up, and operation of monochromator drive; motors, bearings, gas feeds, power, software; User ☐ is ☐ is not authorized to adjust monochromator
☐ B1 Sample Chamber  Review operations for sample chamber and mounter; User ☐ is ☐ is not authorized to modify sample chamber or add new equipment to existing flanges (if authorized, review requirements and extension policy)
☐ B Sample Environ and Cell  Review operations and sample mounting
☐ B Shutters  Review location, operations, indicators, and required sequence for beamline shutter controls
☐ B Spectrometer  Review spectrometer operations and limits
☐ B1 Vacuum (End Sta Eqp)  User ☐ is ☐ is not authorized to perform vacuum work and bleed ups on end station equipment; if authorized, review location, indicators, and operations
☐ B WebCam  Be aware of WebCams and/or Remote Monitoring

BEAMLINE OPERATIONS

☐ B Computer Operations  Review operations for computer operations, control software, data acquisition software, machine status
☐ B Computer Software  Do not install any computer software on beamline computers
☐ B Computer Data  Review data storage, data transfer, and back up process
☐ EB Unattended Ops  User ☐ is ☐ is not requested to attend beamline at all times, as per SAF. Discuss process

ESH & HAZARDS

☐ EB Beryllium  Identify location of beryllium articles or beryllium windows and process for notification in case of breakage
☐ EB Cryogen Fill Station  For Cryogen Filling Station, NSLS-II training and PPE required; BNL cryogen training recommended
☐ EB Cryogen Use  For cryogen/cryostat use, discuss fill operations, ODH, demonstrate use, wear PPE (eye and skin protection)
☐ F Electrical Work 50V  No work on exposed electrical components >50V without appropriate electrical training
☐ EB Electrical Connections  User is not authorized to adjust any high voltage, motor connections or in-hutch beamline electronics
☐ EB Electrical Equipment  User is not permitted to modify or service any electrical equipment on the beamline or perform any bake-outs
☐ EB Electrical Breakers  In case of power failure, contact the FLOCO or Beamline Staff

During initial form development: If there is a number next to the designation (e.g., B1, B2, etc), select the most appropriate content.
NSLS-II Beamline Specific Training Form 10-ID  
Course Code PS-BST-10-ID  
Rev Date:  6/1/2018

<table>
<thead>
<tr>
<th>Instructions to Trainer:</th>
<th>SAF #</th>
<th>Instructions to User:</th>
<th>Trainer: Place √ next to your name:</th>
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</table>
| (1) Provide training for each checkbox to each user listed on the SAF as they arrive and complete the information below. If a checkbox does not apply, cross out that line. Training is valid for 1 year at this beamline only. (2) Send completed forms to NSLS-II Training, Building 745, immediately after all users listed on the SAF (who plan to arrive for this run) have been trained. Training will be entered in the user's training history. | ☐ | Ensure your name and life number are correct and sign the space below that you understand the instructions provided to you in this training. | ☐ Cai, Yong  
☐ Cunsolo, Alessandro  
☐ Suvorov, Alexey |

<table>
<thead>
<tr>
<th>PRINT User Name</th>
<th>Life #</th>
<th>User Signature</th>
<th>Date</th>
<th>Trainer's Signature</th>
<th>Training Entered</th>
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[B] Beamline Specific  
[E] Determined by ESH  
[EB] Determined by ESH and Beamline  
[F] Required by Facility for ALL Beamlines

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