Check the following in 12IDA (FOE):

#01  ☐  12IDA-PPSA-01  Check PPS aperture is in place, labeled, with pressure line, manifold, and sensors connected as per photograph.

#02  ☐  12IDA-FAM-01  Check Fixed Aperture Mask is in place, labeled, with cooling water connected as per photograph.

#03  ☐  12IDA-BC-01  Check Bremsstrahlung Collimator is in place and labeled as per photograph.

#04  ☐  12IDA-SBRS-01  Check Secondary Bremsstrahlung Shield 1 is in place and labeled as per photograph.

#05  ☐  12IDA-SBRS-02  Check Secondary Bremsstrahlung Shield 2 is in place and labeled as per photograph.

#06  ☐  12IDA-WBS-01  Check White Beam Stop is in place, labeled, with cooling water connected as per photograph.

#07  ☐  12IDA-BS-01  Check Bremsstrahlung Stop is in place and labeled as per photograph.

#08  ☐  12IDA-PSH-01  Check Photon Shutter is in place and labeled as per photograph.

#09  ☐  12IDA-GU-01  Check hutch Guillotine is in place and labeled, with inboard penetration pipe collar and outboard penetration plug installed, as per photograph.

#10  ☐  12IDA-LBYR-01  Check PPS cable labyrinth is securely closed and labeled.

#11  ☐  12IDA-LBYR-02  Check user labyrinth is securely closed and labeled.

Check the following on the roof of 12IDA:

#12  ☐  12IDA-LBYR-03  Check roof labyrinth is securely closed and labeled.

#13  ☐  12IDA-LBYR-04  Check roof labyrinth is securely closed and labeled.

#14  ☐  12IDA-LBYR-05  Check roof labyrinth is securely closed and labeled.

#15  ☐  12IDA-LBYR-06  Check roof labyrinth is securely closed and labeled.

#16  ☐  12IDA-LBYR-07  Check roof labyrinth is securely closed and labeled.

#17  ☐  12IDA-LBYR-08  Check roof labyrinth is securely closed and labeled.

#18  ☐  12IDA-LBYR-09  Check roof labyrinth is securely closed and labeled.

#19  ☐  12IDA-LBYR-10  Check roof labyrinth is securely closed and labeled.
Check the following between 12IDA and 12IDB:

#20 ☐ 12ID-CLLR-01  Check hutch interface is in place and labeled.
#21 ☐ 12ID-STP-01  Check Shielded Transport Pipe is in place and labeled as per photograph.
#22 ☐ 12ID-CLLR-02  Check hutch interface is in place and labeled.

Check the following in 12IDB:

#23 ☐ 12IDB-CLLR-01  Check hutch interface at 12-ID-B-1 wall is in place and labeled.
#24 ☐ 12IDB-STP-01  Check Shielded Transport Pipe at 12-ID-B-1 wall is in place and labeled.
#25 ☐ 12IDB-SPE-01  Check upstream Shielded Pipe Enclosure is in place and labeled.
NOTE: Interlocks require installation of Be window/flange or removable shielded transport pipe. Interlocks require installation of shield box lid.
#26 ☐ 12IDB-SPE-02  Check downstream Shielded Pipe Enclosure is in place and labeled.
NOTE: Interlocks require installation of beam stop block or removable shielded transport pipe. Interlocks require installation of shield box lid.
#27 ☐ 12IDB-STP-02  Check Shielded Transport Pipe at downstream guillotine is in place and labeled.
#28 ☐ 12IDB-GU-01  Check hutch downstream Guillotine is in place and labeled, with pipe collar installed, as per photograph.
#29 ☐ 12IDB-BST-01  Check monochromatic Beam Stop is labeled, as per photograph.
#30 ☐ 12IDB-LBYR-01  Check PPS cable labyrinth is securely closed and labeled.
#31 ☐ 12IDB-LBYR-02  Check user labyrinth is securely closed and labeled.
#32 ☐ 12IDB-LBYR-04  Check user labyrinth is securely closed and labeled.
#33 ☐ 12IDB-LBYR-06  Check user labyrinth on 12-ID-B-1 wall is securely closed and labeled.
#34 ☐ 12IDB-LBYR-07  Check roof labyrinth on 12-ID-B-1 is securely closed and labeled by looking into roof mirror from within 12-ID-B.

Check the following in 12IDB1:

#35 ☐ 12IDB1-GU-01  Check hutch upstream Guillotine is in place and labeled, with inboard penetration pipe collar and outboard penetration lead panels installed, as per photograph.
#36 ☐ 12IDB1-GU-02  Check hutch downstream Guillotine is in place and labeled, with inboard penetration pipe collar and outboard penetration lead panels installed, as per photograph.
Check the following on the roof of 12IDB:

#37 ☐ 12IDB-LBYR-08 Check roof labyrinth is securely closed and labeled.
#38 ☐ 12IDB-LBYR-09 Check roof labyrinth is securely closed and labeled.
#39 ☐ 12IDB-LBYR-10 Check roof labyrinth is securely closed and labeled.
#40 ☐ 12IDB-LBYR-11 Check roof labyrinth is securely closed and labeled.
#41 ☐ 12IDB-LBYR-12 Check roof labyrinth is securely closed and labeled.
#42 ☐ 12IDB-LBYR-13 Check roof labyrinth is securely closed and labeled.

Check the following in 12IDC:

#43 ☐ 12IDC-CLLR-01 Check hutch interface is in place and labeled.
#44 ☐ 12IDC-BST-01 Check monochromatic Beam Stop is labeled.
#45 ☐ 12IDC-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.
#46 ☐ 12IDC-LBYR-02 Check user labyrinth is securely closed and labeled.
#47 ☐ 12IDC-LBYR-05 Check user labyrinth is securely closed and labeled.
#48 ☐ 12IDC-LBYR-06 Check user labyrinth is securely closed and labeled.

Check the following on the roof of 12IDC:

#49 ☐ 12IDC-LBYR-08 Check roof labyrinth is securely closed and labeled.
#50 ☐ 12IDC-LBYR-09 Check roof labyrinth is securely closed and labeled.
#51 ☐ 12IDC-LBYR-10 Check roof labyrinth is securely closed and labeled.
#52 ☐ 12IDC-LBYR-11 Check roof labyrinth is securely closed and labeled.
#53 ☐ 12IDC-LBYR-12 Check roof labyrinth is securely closed and labeled.
#54 ☐ 12IDC-LBYR-13 Check roof labyrinth is securely closed and labeled.
#55 ☐ 12IDC-LBYR-14 Check roof labyrinth is securely closed and labeled.
#56 ☐ 12IDC-LBYR-15 Check roof labyrinth is securely closed and labeled.
#57 ☐ 12IDC-LBYR-16 Check roof labyrinth is securely closed and labeled.
#58 ☐ 12IDC-LBYR-17 Check roof labyrinth is securely closed and labeled.
#59 ☐ 12IDC-LBYR-18 Check roof labyrinth is securely closed and labeled.
**Brookhaven National Laboratory/ National Synchrotron Light Source II**

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**Inspection Performed By:**

- **10/13/2016**
  - **X** Robert Chmiel
    - Robert Chmiel
    - NSLS-II Safety Officer
    - Signed by: Chmiel, Robert

- **10/12/2016**
  - **X** Elaine DiMasi
    - Elaine DiMasi
    - 12-ID Lead Beamline Scientist
    - Signed by: Dimasi, Elaine

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**Removal of any radiation safety components or opening of any locks listed on this checklist requires posting an approved NSLS-II Safety System Work Permit***