

Subject:	<b>NSLS-II Beamline 12-ID Radiation Safety Component Checklist</b>		
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**Configurations must match the associated photograph located near the checkpoint when so stated in the checklist.**

**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.

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**Check the following between 12IDA and 12IDB:**

- #20  12ID-CLLR-01 Check huch 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 huch 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.

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**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.

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10/13/2016

10/12/2016

**X** Robert Chmiel

Robert Chmiel  
NSLS-II Safety Officer  
Signed by: Chmiel, Robert

**X** E DiMasi

Elaine DiMasi  
12-ID Lead Beamline Scientist  
Signed by: Dimasi, Elaine

### Inspection Performed By:

Print Name \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**\*\*\*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\*\*\***