

Subject:	<b>NSLS-II Beamline 19-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 19-ID-A:**

- #01  19IDA-PPSA-01 Check PPS aperture is in place, labeled, with pressure line, manifold, and sensors connected.
- #02  19IDA-FAM-01 Check Water-Cooled Fixed Mask is in place, labeled, with cooling water connected.
- #03  19IDA-BC-01 Check Lead Bremsstrahlung Collimator is in place and labeled.
- #04  19IDA-SBRS-01 Check Secondary Bremsstrahlung Shield 1 (PE) is in place and labeled as per photograph.
- #05  19IDA-WBS-01 Check NYX Water Cooled Mask and LAX White Beam Stop is in place, labeled, with cooling water connected.
- #06  19IDA-BC-02 Check Tungsten Bremsstrahlung Collimator is in place and labeled.
- #07  19IDA-SBRS-02 Check Secondary Bremsstrahlung Shield 2 (Lead) is in place and labeled as per photograph.
- #08  19IDA-GU-01 Check Hutch Inboard NYX Guillotine is in place and labeled as per photograph.
- #09  19IDA-GU-02 Check Hutch Outboard LAX lead shield plate is in place and labeled, installed as per photograph.
- #10  19IDA-LBYR-01 Check user labyrinth is securely closed and labeled.
- #11  19IDA-LBYR-02 Check PPS cable labyrinth is securely closed and labeled.

**Check the following on the roof of 19-ID-A:**

- #12  19IDA-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #13  19IDA-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #14  19IDA-LBYR-05 Check roof labyrinth is securely closed and labeled.

**Check the following between 19-ID-A and 19-ID-C:**

- #15  19ID-CLLR-01 Check A Hutch Interface Pipe Collar is in place and labeled.
- #16  19ID-STP-01 Check White Beam Shielded Transport Pipe is in place and labeled.
- #17  19ID-SPE-01 Check Shielded Ion Pump enclosure is in place and labeled.
- #18  19ID-STP-02 Check White Beam Shielded Transport Pipe is in place and labeled.

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- #19  19ID-SPE-02 Check Shielded Bellows Enclosure is in place and labeled.
- #20  19ID-STP-03 Check White Beam Shielded Transport Pipe is in place and labeled.
- #21  19ID-SPE-03 Check Shielded Bellows Enclosure is in place and labeled.
- #22  19ID-STP-04 Check White Beam Shielded Transport Pipe is in place and labeled.
- #23  19ID-CLLR-02 Check C Hutch Interface Pipe Collar is in place and labeled.

**Check the following in 19-ID-C:**

- #24  19IDC-GU-01 Check Hutch Guillotine is in place and labeled as per photograph.
- #25  19IDC-FAM-01 Check Water-Cooled Movable Mask is in place, labeled, with cooling water connected
- #26  19IDC-BC-01 Check Lead Bremsstrahlung Collimator is in place and labeled.
- #27  19IDC-SBRS-01 Check Secondary Bremsstrahlung Shield 1 (PE) is in place and labeled as per photograph.
- #28  19IDC-SBRS-02 Check Secondary Bremsstrahlung Shield 2 (Lead) is in place and labeled as per photograph.
- #29  19IDC-WBS-01 Check DCM with interior NYX White Beam Stop is in place, labeled, with cooling water connected.
- #30  19IDC-SBRS-03 Check Secondary Bremsstrahlung Shield 3 (Lead) is in place and labeled as per photograph.
- #31  19IDC-BC-02 Check Tungsten Bremsstrahlung Collimator is in place and labeled.
- #32  19IDC-PSH-01 Check Photon Shutter is in place and labeled.
- #33  19IDC-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.
- #34  19IDC-LBYR-02 Check user labyrinth is securely closed and labeled.
- #35  19IDC-GU-02 Check Hutch Guillotine is in place and labeled as per photograph.

**Check the following on the roof of 19-ID-C:**

- #36  19IDC-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #37  19IDC-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #38  19IDC-LBYR-05 Check roof labyrinth is securely closed and labeled.
- #39  19IDC-LBYR-06 Check roof labyrinth is securely closed and labeled.

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**Check the following in 19-ID-D:**

- #40  19IDD-BST-01 Check monochromatic Beam Stop is labeled.
- #41  19IDD-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.
- #42  19IDD-LBYR-02 Check user labyrinth is securely closed and labeled.
- #43  19IDD-DOOR-01 Check sliding door is securely closed, labeled and locked.

**Check the following on the roof of 19-ID-D:**

- #44  19IDD-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #45  19IDD-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #46  19IDD-LBYR-05 Check roof labyrinth is securely closed and labeled.

11/7/2016

**X** Robert Chmiel

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

**X**

Joseph Lidestri  
NYSBC/ NYX Lead Beamline Scientist

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