

Brookhaven National Laboratory/ National Synchrotron Light Source II						
Subject:	NSLS-II Beamline 18-ID Radiation Safety Component Checklist					
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Configurations must match the associated photograph located near the checkpoint when so stated in the checklist.

Check the following on the roof of 18-ID-A:

- #01 18IDA-LBYR-01 Check roof labyrinth is securely closed and labeled.
- #02 18IDA-LBYR-02 Check roof labyrinth is securely closed and labeled.
- #03 18IDA-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #04 18IDA-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #05 18IDA-LBYR-05 Check roof labyrinth is securely closed and labeled.
- #06 18IDA-LBYR-06 Check roof labyrinth is securely closed and labeled.
- #07 18IDA-LBYR-07 Check roof labyrinth is securely closed and labeled.
- #08 18IDA-LBYR-08 Check roof labyrinth is securely closed and labeled.

Check the following on the outboard wall of 18-ID-A:

- #09 18IDA-LBYR-09 Check wall labyrinth is securely closed and labeled.
- #10 18IDA-LBYR-10 Check wall labyrinth is securely closed and labeled.
- #11 18IDA-LBYR-11 Check PPS wall labyrinth is securely closed and labeled.

Check the following inside 18-ID-A:

- #12 18IDA-FAM-01 Check that fixed mask is in place and labeled per photograph.
- #13 18IDA-BRC-01 Check that bremsstrahlung collimator is in place and labeled per photograph.
- #14 18IDA-SBRS-00 Check that secondary bremsstrahlung shielding (SBS-0) is in place and labeled per photograph.
- #15 18IDA-MIR-01 Check that the hard stops for the collimating vertical stages are in place and labeled, per photograph.
- #16 18IDA-SBRS-01 Check that secondary bremsstrahlung shielding (SBS-I) is in place and labeled per photograph.
- #17 18IDA-SBRS-02 Check that secondary bremsstrahlung shielding (SBS-II) is in place and labeled per photograph.
- #18 18IDA-WBS/PBM-01 Check that white beam stop/pink beam mask is in place and labeled per photograph.

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- #19 18IDA-BRS-01 Check that primary bremsstrahlung stop is in place and labeled per photograph.
- #20 18IDA-PBS/SBRS-03- Check that pink beam stop and secondary bremsstrahlung shield (SBS-III) are in place and labeled per photograph. This is a single unit and can be seen through the vacuum window.
- #21 18IDA- SBRS-04 Check that secondary bremsstrahlung shielding (SBS-IV) is in place and labeled per photograph.
- #22 18IDA-PSH-01 Check that the photon shutter is in place and labeled per photograph.
- #23 18IDA-GU-01 Check guillotine is securely closed and labeled per photograph.
- #24 18IDA-GU-02 Check unused porthole guillotine lead plates are in place and labeled per photograph.

Check the following in between 18-ID-A and 18-ID-B:

- #25 18ID-CLLR-01 Check that the lead collar is in place and labeled per photograph. This can be seen from outside the hutch.
- #26 18ID-VA-01 Check shielded transport pipe is in place and labeled.
- #27 18ID-SFE-01 Check flange enclosure is in place and labeled per photograph.
- #28 18ID-VA-02 Check shielded transport pipe is in place and labeled.
- #29 18ID-SFE-02 Check flange enclosure is in place and labeled per photograph.
- #30 18ID-VA-03 Check shielded transport pipe is in place and labeled.
- #31 18ID-SPE-01 Check ion pump enclosure is in place and labeled per photograph.
- #32 18ID-VA-04 Check shielded transport pipe is in place and labeled.
- #33 18ID-SFE-03 Check flange enclosure is in place and labeled per photograph.
- #34 18ID-VA-05 Check shielded transport pipe is in place and labeled.
- #35 18ID-SPE-02 Check ion pump enclosure is in place and labeled per photograph.
- #36 18ID-VA-06 Check shielded transport pipe is in place and labeled.
- #37 18ID-SFE-04 Check flange enclosure is in place and labeled per photograph.

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- #38 18ID-VA-07 Check shielded transport pipe is in place and labeled.
- #39 18ID-SPE-03 Check ion pump enclosure is in place and labeled per photograph.
- #40 18ID-VA-08 Check shielded transport pipe is in place and labeled.
- #41 18ID-SFE-05 Check flange enclosure is in place and labeled per photograph.
- #42 18ID-VA-09 Check shielded transport pipe is in place and labeled.
- #43 18ID-SFE-06 Check flange enclosure is in place and labeled per photograph.
- #44 18ID-VA-10 Check shielded transport pipe is in place and labeled.
- #45 18ID-CLLR-02 Check lead collar is in place and labeled per photograph. This can be seen from outside the hutch.
- #46 18ID-GU-01 Check external guillotine is in place and labeled per photograph.

Check the following on the roof of 18-ID-B:

- #47 18IDB-LBYR-01 Check roof labyrinth is securely closed and labeled.
- #48 18IDB-LBYR-02 Check roof labyrinth is securely closed and labeled.
- #49 18IDB-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #50 18IDB-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #51 18IDB-LBYR-05 Check roof labyrinth is securely closed and labeled.
- #52 18IDB-LBYR-06 Check roof labyrinth is securely closed and labeled.
- #53 18IDB-LBYR-07 Check roof labyrinth is securely closed and labeled.
- #54 18IDB-LBYR-08 Check roof labyrinth is securely closed and labeled.

Check the following on the upstream (outside) wall of 18-ID-B:

- #55 18IDB-LBYR-09 Check wall labyrinth is securely closed and labeled.
- #56 18IDB-LBYR-10 Check wall labyrinth is securely closed and labeled.
- #57 18IDB-LBYR-11 Check wall labyrinth is securely closed and labeled.

Check the following on the outboard (outside) wall of 18-ID-B:

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- #58 18IDB-LBYR-12 Check wall labyrinth is securely closed and labeled.
- #59 18IDB-LBYR-13 Check wall labyrinth is securely closed and labeled.
- #60 18IDB-LBYR-14 Check wall labyrinth is securely closed and labeled.
- #61 18IDB-LBYR-15 Check wall labyrinth is securely closed and labeled.

Check the following on the inboard (outside) wall of 18-ID-B:

- #62 18IDB-LBYR-16 Check wall labyrinth is securely closed and labeled.
- #63 18IDB-LBYR-17 Check wall labyrinth is securely closed and labeled.

Check the following on the upstream (inside) wall of 18-ID-B:

- #64 18IDB-LBYR-18 Check wall labyrinth is securely closed and labeled.
- #65 18IDB-LBYR-19 Check wall labyrinth is securely closed and labeled.
- #66 18IDB-LBYR-20 Check wall labyrinth is securely closed and labeled.

Check the following on the outboard (inside) wall of 18-ID-B:

- #67 18IDB-LBYR-21 Check wall labyrinth is securely closed and labeled.
- #68 18IDB-LBYR-22 Check PPS wall labyrinth is securely closed and labeled.
- #69 18IDB-LBYR-23 Check wall labyrinth is securely closed and labeled.

Check the following on the inboard (inside) wall of 18-ID-B:

- #70 18IDB-LBYR-24 Check wall labyrinth is securely closed and labeled.
- #71 18IDB-LBYR-25 Check wall labyrinth is securely closed and labeled.

Check the following on the downstream wall of 18-ID-B:

- #72 18IDB-STP-01 Check monochromatic beam stop is in place and labeled per photograph.

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10/3/2017

10/4/2017

X Wah-Keat Lee

Wah-Keat Lee
 FXI Lead Beamline Scientist
 Signed by: Lee, Wah-Keat

X Mary Carlucci-Dayton

Mary Carlucci-Dayton
 Technical Authority
 Signed by: Carlucci-Dayton, Mary

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*****