

Brookhaven National Laboratory/ National Synchrotron Light Source II			
Subject:	NSLS-II Beamline 4-ID Radiation Safety Component Checklist		
Number:	PS-R-XFD-CHK-010	Revision:	3
		Effective:	27Jun2016
			Page: 1 of 4

Configurations must match the associated photograph located near the checkpoint when so stated in the checklist.

Check the following in 4IDA (FOE):

- #01 4IDA-PPSA-01 Check PPS aperture is in place, labeled, with pressure line, manifold, and sensors connected as per photograph.
- #02 4IDA-FAM-01 Check dual mask is in place, labeled, with cooling water connected as per photograph.
- #03 4IDA-MPF-01 Check mis-steer protection flange is in place and labeled as per photograph.
- #04 4IDA-FAM-02 Check single mask is in place, labeled, with cooling water connected as per photograph.
- #05 4IDA-BC-01 Check Bremsstrahlung collimator is in place and labeled as per photograph.
- #06 Reserved for future use
- #07 4IDA-WBS-01 Check white beam stop is in place, labeled, with cooling water connected as per photograph.
- #08 4IDA-BC-02 Check Bremsstrahlung collimator is in place and labeled as per photograph.
- #09 4IDA-DCM-01 Check DCM Y motors, 4, are locked out as per photograph.
- #10 4IDA-PBS-01 Check pink beam stop is in place, labeled, with cooling water connected as per photograph.
- #11 4IDA-MBM-01 Check mono beam mask is in place and labeled as per photograph.
- #12 4IDA-BS-01 Check Bremsstrahlung stop is in place and labeled as per photograph.
- #13 Reserved for future use
- #14 4IDA-PSH-01 Check photon shutter is in place and labeled as per photograph.
- #15 4IDA-GU-01 Check hutch guillotine is in place and labeled as per photograph.
- #16 4IDA-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.

Check the following on the roof of 4IDA:

Subject:	NSLS-II Beamline 4-ID Radiation Safety Component Checklist		
Number:	PS-R-XFD-CHK-010	Revision: 3	Effective: 27Jun2016
			Page: 2 of 4

- #17 4IDA-LBYR-02 Check roof labyrinth is securely closed and labeled.
- #18 4IDA-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #19 4IDA-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #20 4IDA-LBYR-05 Check roof labyrinth is securely closed and labeled.
- #21 4IDA-LBYR-06 Check roof labyrinth is securely closed and labeled.
- #22 4IDA-LBYR-07 Check roof labyrinth is securely closed and labeled.
- #23 4IDA-LBYR-08 Check roof labyrinth is securely closed and labeled.
- #24 4IDA-LBYR-09 Check roof labyrinth is securely closed and labeled.

Check the following between 4IDA and 4IDB:

- #25 4IDA-CLLR-01 Check hutch interface is in place and labeled as per photograph.
- #26 4ID-STP-01 Check shielded transport pipe is in place and labeled as per photograph.
- #27 4ID-SPE-01 Check shielded ion pump enclosure is in place and labeled as per photograph.
- #28 4ID-STP-02 Check shielded transport pipe is in place and labeled as per photograph.
- #29 4ID-SFE-01 Check shielded flange enclosure is in place and labeled as per photograph.
- #30 4ID-STP-03 Check shielded transport pipe is in place and labeled as per photograph.
- #31 4IDB-CLLR-01 Check hutch interface is in place and labeled as per photograph.

Check the following in 4IDB (SOE):

- #32 4IDB-GU-01 Check hutch guillotine is in place and labeled as per photograph.
- #33 4IDB-MBM-01 Check mono beam mask is in place and labeled as per photograph.
- #34 4IDB-PSH-01 Check photon shutter is in place and labeled as per photograph.
- #35 4IDB-GU-02 Check hutch guillotine is in place and labeled as per photograph.
- #36 4IDB-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.
- #37 4IDB-LBYR-02 Check user labyrinth is securely closed and labeled.

Subject:	NSLS-II Beamline 4-ID Radiation Safety Component Checklist		
Number:	PS-R-XFD-CHK-010	Revision:	3
		Effective:	27Jun2016
			Page: 3 of 4

Check the following on the roof of 4IDB:

- #38 4IDB-LBYR-03 Check roof labyrinth is securely closed and labeled.
- #39 4IDB-LBYR-04 Check roof labyrinth is securely closed and labeled.

Check the following between 4IDB and 4IDC:

- #40 4IDB-CLLR-02 Check hutch interface is in place and labeled as per photograph.
- #41 4ID-STP-04 Check shielded transport pipe is in place and labeled as per photograph.
- #42 4ID-SPE-02 Check shielded ion pump enclosure is in place and labeled as per photograph.
- #43 4ID-STP-05 Check shielded transport pipe is in place and labeled as per photograph.
- #44 4ID-SFE-02 Check shielded flange enclosure is in place and labeled as per photograph.
- #45 4ID-STP-06 Check shielded transport pipe is in place and labeled as per photograph.
- #46 4IDC-CLLR-01 Check hutch interface is in place and labeled as per photograph.

Check the following in 4IDC:

- #47 4IDC-GU-01 Check hutch guillotine is in place and labeled as per photograph.
- #48 4IDC-STP-01 Check monochromatic beam stop is labeled as per photograph.
- #49 4IDC-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.
- #50 4IDC-LBYR-02 Check user labyrinth is securely closed and labeled.
- #51 4IDC-LBYR-03 Check user labyrinth is securely closed and labeled.

Check the following on the roof of 4IDC:

- #52 4IDC-LBYR-04 Check roof labyrinth is securely closed and labeled.
- #53 4IDC-LBYR-05 Check roof labyrinth is securely closed and labeled.
- #54 4IDC-LBYR-06 Check roof labyrinth is securely closed and labeled.
- #55 4IDC-LBYR-07 Check roof labyrinth is securely closed and labeled.
- #56 4IDC-LBYR-08 Check roof labyrinth is securely closed and labeled.
- #57 4IDC-LBYR-09 Check roof labyrinth is securely closed and labeled.

Subject:	NSLS-II Beamline 4-ID Radiation Safety Component Checklist		
Number:	PS-R-XFD-CHK-010	Revision:	3
		Effective:	27Jun2016
			Page: 4 of 4

#58 4IDC-LBYR-10 Check roof labyrinth is securely closed and labeled.

Check the following in 4IDD:

#59 4IDD-STP-01 Check monochromatic beam stop is in place and labeled as per photograph.

#60 4IDD-LBYR-01 Check PPS cable labyrinth is securely closed and labeled.

#61 4IDD-LBYR-02 Check user labyrinth is securely closed and labeled.

#62 4IDD-LBYR-03 Check user labyrinth is securely closed and labeled.

#63 4IDD-LBYR-04 Check user labyrinth is securely closed and labeled.

#64 4IDD-LBYR-05 Check user labyrinth is securely closed and labeled.

Check the following on the roof of 4IDD:

#65 4IDD-LBYR-06 Check roof labyrinth is securely closed and labeled.

#66 4IDD-LBYR-07 Check roof labyrinth is securely closed and labeled.

#67 4IDD-LBYR-08 Check roof labyrinth is securely closed and labeled.

#68 4IDD-LBYR-09 Check roof labyrinth is securely closed and labeled.

#69 4IDD-LBYR-10 Check roof labyrinth is securely closed and labeled.

6/27/2016

6/27/2016

X Robert Chmiel

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

X Christie Nelson

Christie Nelson
4-ID Lead Beamline Scientist
Signed by: Nelson, Christie

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*****