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

Check the following items inside 8-ID-A hutch:

#01  ☐  8IDA-MSK-MA-0  Check the water-cooled mask is in place, labeled and cooling water connected per photograph

#02  ☐  8IDA-LBYR-O1  Check the labyrinth (outboard/upstream) is securely closed and labeled

#03  ☐  8IDA-MSK-MA-1  Check the water-cooled mask is in place, labeled and cooling water connected per photograph

#04  ☐  8IDA-CM  Collimation mirror system. CM under vacuum and all DI-water hoses and chilled water hoses connect per photograph. Located inside the CM tank are 8IDA-BRC-CM-BS-01, a W-bremsstrahlung collimator directly connected to 8IDA-MSK-MA-1, 8IDA-MSK-MA-2 a water cooled mask which also acts as white beam stop, 8IDA-SBRS-CM-BS-03 a W-secondary bremsstrahlung shield mounted to 8IDA-MSK-MA-2, 8IDA-SBRS-CM-BS-03 and 8IDA-SBRS-CM-BS-04, two W-secondary bremsstrahlung collimator mounted to 8IDA-MSK-MA-3.

#05  ☐  8IDA-MSK-MA-3  Check the water-cooled mask is in place, labeled and cooling water connected per photograph

#06  ☐  8IDA-SBRS-CM-BS-05  Check the secondary Bremsstrahlung shield SGB1 is in place and labeled per photograph

#07  ☐  8IDA-MSK-MA-4  Check the water-cooled mask is in place, labeled and cooling water connected per photograph

#08  ☐  8IDA-PBS-PBS  Check the water-cooled pink beam stop is in place, labeled and cooling water connected per photograph

#09  ☐  8IDA-BRS-BS  Check the primary Bremsstrahlung stop and the secondary Bremsstrahlung shield SGB3 are in place and labeled per photograph

#10  ☐  8IDA-SBRS-BT-BC-01  Check the secondary Bremsstrahlung shield SGB1 is in place and labeled per photograph

#11  ☐  8IDA-PSH  Check the photon shutter is in place and labeled

#12  ☐  8IDA-GU  Check the guillotine is securely closed and labeled per photograph

#13  ☐  8IDA-LBYR-PPS  Check the PPS labyrinth (between the upstream and downstream doors) is securely closed and labeled

Check the following items on the roof of 8-ID-A hutch: (the sequence follows the beam direction)

#14  ☐  8IDA-LBYR-R1  Check this roof cable/utilities access labyrinth is securely closed and labeled

#15  ☐  8IDA-LBYR-R2  Check this roof cable/utilities access labyrinth is securely closed and labeled

#16  ☐  8IDA-LBYR-R3  Check this roof LN2 labyrinth is securely closed and labeled
#17 ☐ 8IDA-LBYR-R4 Check this roof cable/utilities access labyrinth is securely closed and labeled

#18 ☐ 8IDA-LBYR-R5 Check this roof cable/utilities access labyrinth is securely closed and labeled

#19 ☐ 8IDA-LBYR-R6 Check this roof cable/utilities access labyrinth is securely closed and labeled

#20 ☐ 8IDA-LBYR-R7 Check this roof cable/utilities access labyrinth is securely closed and labeled

Check the following items between hutch 8-ID-A and B:

#21 ☐ 8ID-CLLR-1 Check the upstream collar on the beam pipe is in place and labeled

#22 ☐ 8ID-VA-1 Check the lead-shielded beam transport pipe is in place and labeled

#23 ☐ 8ID-BLW-1 Check the bellow cover on the beam pipe is in place and labeled

#24 ☐ 8ID-VA-2 Check the lead-shielded beam transport pipe is in place and labeled

#25 ☐ 87ID-BLW-2 Check the bellow cover on the beam pipe is in place and labeled

#26 ☐ 8ID-VA-3 Check the lead-shielded beam transport pipe is in place and labeled

#27 ☐ 87ID-BLW-3 Check the bellow cover on the beam pipe is in place and labeled

#28 ☐ 8ID-VA-4 Check the lead-shielded beam transport pipe is in place and labeled

#29 ☐ 8ID-ME Check the mini enclosure cover in place and labeled

#30 ☐ 8ID-ME-DOOR-1 Check the mini enclosure door (inboard) is securely closed and labeled

#31 ☐ 8ID-ME-DOOR-2 Check the mini enclosure door (inboard) is securely closed and labeled

#32 ☐ 8ID-VA-5 Check the lead-shielded beam transport pipe is in place and labeled

#33 ☐ 8ID-BLW-5 Check the bellow cover on the beam pipe is in place and labeled

#34 ☐ 8ID-VA-6 Check the lead-shielded beam transport pipe is in place and labeled

#35 ☐ 8ID-BLW-6 Check the bellow cover on the beam pipe is in place and labeled

#36 ☐ 8ID-VA-7 Check the lead-shielded beam transport pipe is in place and labeled

#37 ☐ 8ID-BLW-7 Check the lead-shielded beam transport pipe is in place and labeled

#38 ☐ 8ID-VA-8 Check the lead-shielded beam transport pipe is in place and labeled

#39 ☐ 8ID-CLLR-2 Check downstream collar on the beam pipe is in place and labeled

Check the following items inside the 8-ID-B1 hutch:

#40 ☐ 8IDB1-GU Check the guillotine is securely closed and labeled per photograph

#41 ☐ 8IDB1-LBYR-PPS Check the PPS labyrinth (downstream of the door) is securely closed and labeled
#42 ☐ 8IDB1-LBYR-U1 Check this user labyrinth (upstream wall) is securely closed and labeled

#43 ☐ 8IDB1-LBYR-U2 Check this user labyrinth (upstream wall) is securely closed and labeled

#44 ☐ 8IDB1-LBYR-I1 Check this user labyrinth (in-board wall) is securely closed and labeled

#45 ☐ 8IDB1-LBYR-I2 Check this user labyrinth (in-board wall) is securely closed and labeled

#46 ☐ 8IDB1-SW Check separation wall (floor, door, and top securing system) is securely closed and labeled per photograph

Check the following items inside the 8-ID-B2 hutch:

#47 ☐ 8IDB2-SW Check separation wall (floor, door, and top securing system) is securely closed and labeled per photograph

#48 ☐ 8IDB2-LBYR-PPS Check the PPS labyrinth (outboard) is securely closed and labeled

#49 ☐ 8IDB2-LBYR-D1 Check this user labyrinth (downstream) is securely closed and labeled

#50 ☐ 8IDB2-LBYR-D2 Check this user labyrinth (downstream) is securely closed and labeled

#51 ☐ 8IDB2-LBYR-D3 Check this user labyrinth (downstream) is securely closed and labeled

#52 ☐ 8IDB2-LBYR-D4 Check this user labyrinth (downstream) is securely closed and labeled

Check the following items on the roof of hutches 8-ID-B1 and B2: (the sequence follows the beam direction)

#53 ☐ 8IDB1-LBYR-R1 Check this this roof cryogen access labyrinth is securely closed and labeled per photograph

#54 ☐ 8IDB1-LBYR-R2 Check this this roof cable/utilities access labyrinth is securely closed and labeled

#55 ☐ 8IDB1-LBYR-R3 Check this this roof cable/utilities access labyrinth is securely closed and labeled

#56 ☐ 8IDB1-LBYR-R4 Check this this roof cable/utilities access labyrinth is securely closed and labeled

#57 ☐ 8IDB1-LBYR-R5 Check this this roof cable/utilities access labyrinth is securely closed and labeled

#58 ☐ 8IDB1-LBYR-R6 Check this this vent access labyrinth is securely closed and labeled per photograph

#59 ☐ 8IDB1-LBYR-R7 Check this this vent access labyrinth is securely closed and labeled per photograph

#60 ☐ 8IDB2-LBYR-R1 Check this this vent access labyrinth is securely closed and labeled per photograph

#61 ☐ 8IDB2-LBYR-R2 Check this this roof cable/utilities access labyrinth is securely closed and labeled
#62 □ 8IDB2-LBYR-R3  Check this roof cable/utilities access labyrinth is securely closed and labeled

#63 □ 8IDB2-LBYR-R4  Check this roof cable/utilities access labyrinth is securely closed and labeled

#64 □ 8IDB2-LBYR-R5  Check this roof cryogen access labyrinth is securely closed and labeled

Check the following items outside the 8-ID-B1 hutch:

#65 □ 8IDB1-LBYR-U1  Check this user labyrinth (upstream wall) is securely closed and labeled

#66 □ 8IDB1-LBYR-U2  Check this user labyrinth (upstream wall) is securely closed and labeled

#67 □ 8IDB1-LBYR-I1  Check this user labyrinth (in-board wall) is securely closed and labeled

#68 □ 8IDB1-LBYR-I2  Check this user labyrinth (in-board wall) is securely closed and labeled

#69 □ 8IDB1-LBYR-I3  Check this user labyrinth (in-board wall) is securely closed and labeled

Check the following items outside the 8-ID-B2 hutch:

#70 □ 8IDB2-LBYR-D1  Check this user labyrinth (downstream) is securely closed and labeled

#71 □ 8IDB2-LBYR-D2  Check this user labyrinth (downstream) is securely closed and labeled

#72 □ 8IDB2-LBYR-D3  Check this user labyrinth (downstream) is securely closed and labeled

#73 □ 8IDB2-LBYR-D4  Check this user labyrinth (downstream) is securely closed and labeled

#74 □ 8IDB2-LBYR-I1  Check this user labyrinth (inboard) is securely closed and labeled

3/14/2016

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

Klaus Attenkofer
8-ID Lead Beamline Scientist
Signed by: Attenkofer, Klaus

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****