

Subject:	NSLS-II Beamline 8-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 items inside 8-ID-A hutch:

- | | | | |
|-----|--------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #01 | <input type="checkbox"/> | 8IDA-MSK-MA-0 | Check the water-cooled mask is in place, labeled and cooling water connected per photograph |
| #02 | <input type="checkbox"/> | 8IDA-LBYR-O1 | Check the labyrinth (outboard/upstream) is securely closed and labeled |
| #03 | <input type="checkbox"/> | 8IDA-MSK-MA-1 | Check the water-cooled mask is in place, labeled and cooling water connected per photograph |
| #04 | <input type="checkbox"/> | 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 | <input type="checkbox"/> | 8IDA-MSK-MA-3 | Check the water-cooled mask is in place, labeled and cooling water connected per photograph |
| #06 | <input type="checkbox"/> | 8IDA-SBRS-CM-BS-05 | Check the secondary Bremsstrahlung shield SGB1 is in place and labeled per photograph |
| #07 | <input type="checkbox"/> | 8IDA-MSK-MA-4 | Check the water-cooled mask is in place, labeled and cooling water connected per photograph |
| #08 | <input type="checkbox"/> | 8IDA-PBS-PBS | Check the water-cooled pink beam stop is in place, labeled and cooling water connected per photograph |
| #09 | <input type="checkbox"/> | 8IDA-BRS-BS | Check the primary Bremsstrahlung stop and the secondary Bremsstrahlung shield SGB3 are in place and labeled per photograph |
| #10 | <input type="checkbox"/> | 8IDA-SBRS-BT-BC-01 | Check the secondary Bremsstrahlung shield SGB1 is in place and labeled per photograph |
| #11 | <input type="checkbox"/> | 8IDA-PSH | Check the photon shutter is in place and labeled |
| #12 | <input type="checkbox"/> | 8IDA-GU | Check the guillotine is securely closed and labeled per photograph |
| #13 | <input type="checkbox"/> | 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 | <input type="checkbox"/> | 8IDA-LBYR-R1 | Check this roof cable/utilities access labyrinth is securely closed and labeled |
| #15 | <input type="checkbox"/> | 8IDA-LBYR-R2 | Check this roof cable/utilities access labyrinth is securely closed and labeled |
| #16 | <input type="checkbox"/> | 8IDA-LBYR-R3 | Check this roof LN2 labyrinth is securely closed and labeled |

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- #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 hutches 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

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- #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

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- #62 8IDB2-LBYR-R3 Check this this roof cable/utilities access labyrinth is securely closed and labeled
- #63 8IDB2-LBYR-R4 Check this this roof cable/utilities access labyrinth is securely closed and labeled
- #64 8IDB2-LBYR-R5 Check this 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

3/14/2016

X Robert Chmiel

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

X Klaus Attenkofer

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******