

Brookhaven National Laboratory/ Photon Sciences Directorate			
Subject:	NSLS-II Beamline 21-ID Radiation Safety Component Checklist		
Number:	PS-R-XFD-CHK-011	Revision:	1
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Check the following items in the FOE (21-ID-A)

- 21IDA-LBYR-01** Check labyrinth is secured closed and labeled.
- 21IDA-LBYR-02** Check labyrinth is secured closed and labeled.
- 21IDA-LBYR-03** Check labyrinth is secured closed and labeled.
- 21IDA-MSK-01** Check white beam mask is in place, labeled and cooling water connected.
- 21IDA-BRS-01** Check primary GBS collimator is in place and labeled as per photograph
- 21IDA-VVS-01** Check M1 vacuum vessel, which comprises entrance mask, exit mask, white beam stop, and pink beam mask #1, is in place, labeled and cooling waters are connected
- 21IDA-MSK-02** Check pink beam mask #2 is in place, labeled and cooling water connected.
- 21IDA-BRS-02** Check primary GBS stop and shielding wall are in place and labeled as per photograph
- 21IDA-MSK-03** Check pink beam mask #3 is in place, labeled and cooling water connected.
- 21IDA-MSK-04** Check pink beam mask #4 is in place, labeled and cooling water connected
- 21IDA-PSH-01** Check photon shutter is in place and labeled.
- 21IDA-GU-01** Check hutch guillotine is secured closed and labeled as per photograph.

Check the following on the roof of the FOE (21-ID-A)

- 21IDA-LBYR-04** Check roof cable/utility access labyrinth is secured closed and labeled.
- 21IDA-LBYR-05** Check roof cable/utility access labyrinth is secured closed and labeled.
- 21IDA-LBYR-06** Check roof cable/utility access labyrinth is secured closed and labeled.
- 21IDA-LBYR-07** Check roof cable/utility access labyrinth is secured closed and labeled.
- 21IDA-LBYR-08** Check roof cable/utility access labyrinth is secured closed and labeled.
- 21IDA-LBYR-09** Check roof cable/utility access labyrinth is secured closed and labeled.

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Check the following in the common zone (PGM and M3) 21-ID-B:

- 21IDB-SW-01** Check pair of PPS vacuum switches are in place, valve to chamber is open and labeled.(along pipe)
- 21IDB-SW-02** Check pair of PPS vacuum switches are in place, valve to chamber is open and labeled.
- 21IDB-SW-03** Check pair of PPS vacuum switches are in place in the mono chamber, valve to chamber is open and labeled.
- 21IDB-VVS-02** Check mono vacuum vessel, which comprises entrance mask, exit mask, secondary GBS stop (W block) and 6 leaded glass covered viewports, is in place, labeled and cooling water connected

Check the following in the branch zone (downstream M3, ARPES and XPEEM) 21-ID-C:

- 21IDC-PSH-02** Check ARPES branch photon shutter is in place and labeled.
- 21IDC-PSH-03** Check XPEEM branch photon shutter is in place and labeled.

Check the following in the end stations zone 21-ID-D:

- 21ID-SW-04** Check pair of PPS vacuum switches are in place (ARPES end station), valve to chamber is open and labeled.
- 21ID-SW-05** Check pair of PPS vacuum switches are in place (XPEEM end station), valve to chamber is open and labeled.

6/21/2016

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X Robert Chmiel

Robert Chmiel
Safety Officer
Signed by: Chmiel, Robert

X Elio Vescovo

Elio Vescovo
21-ID Lead Beamline Scientist
Signed by: Vescovo, Elio

Inspected 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******