

<b>X11B SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: C</b>	<b>Effective: 5/24/2010</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0025
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### CHECKPOINTS 2-10 ARE ON THE X12 SIDE OF BEAMLINE UPSTREAM OF X11A HUTCH

- 1. Valid Padlock Index and log, no padlocks open.
- 2. Exclusion Zone's (EZ #1 and EZ #2) in place and banded as per photo
- 3. Exclusion Zone (EZ #3) in place and secured as per photo
- 4. Bremsstrahlung shield (BS #1) in place and banded as per photo
- 5. Lead shielding of slit assembly tank in place and secured as per photo
- 6. Bremsstrahlung shield (BS #2) in place and banded as per photo
- 7. Lead shielding of 3-way cross in place and secured as per photo
- 8. Lead shielding of 5-way cross, monochromator, leaded glass on 3 viewports, 5-way cross in place and secured as per photo
- 9. Bremsstrahlung shield (BS #3) in place and banded as per photo
- 10. Lead shielding on Photon shutter in place and secured as per photo

### CHECKPOINTS 11-13 ARE ON THE X12 SIDE INBETWEEN X11A AND X11B HUTCHES

- 11. Bremsstrahlung shield (BS #4) in place and banded as per photo
- 12. Scatter shield around mirror tank, and leaded glass on 4 viewports as per photo
- 13. Leaded glass covering viewport secured

### CHECKPOINT 14 IS INSIDE OF X11B HUTCH

- 14. Beam-stop at back of hutch in place and secured as per photo

OPCO / Beamline Staff.: \_\_\_\_\_ Date: \_\_\_\_\_

### USER SYTEM CHECKS

- A. GP valve 1B is in the open position.
- B. GP valve 2B is in the open position.
- C. Water is flowing through all water cooled components (check for green lights displayed in rack located downstream of monochromator).
- D. Gate valves 3-5 are open (check for green lights displayed in rack located downstream of monochromator).

Beamline Rep.: \_\_\_\_\_ Date: \_\_\_\_\_