

<b>X23B SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: B</b>	<b>Effective: 5/24/07</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0053
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Original signatures on file.

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- 1. Valid Padlock Index and log, no locks open
- 2. Exclusion Zone (EZ #1) and Bremsstrahlung shield (BS #1) upstream of valve 1B
- 3. Vacuum Bellows #1 wrapped in lead and vinyl down stream of valve 1B.
- 4. Check lead around the 4 –way cross.
- 5. Vacuum Bellows #2 wrapped in lead. Located upstream of mirror 1.
- 6. Check that lead sheeting is in place around mirror 1 and all feed throughs.
- 7. Vacuum Bellows #3 and flanges wrapped in lead. Located down stream of mirror 1.
- 8. Bremsstrahlung shield (BS #2) in place.
- 9. Water cooled Beryllium window #1 wrapped in vinyl.
- 10. Exclusion Zone (EZ #2)
- 11. Viewport #1 must see “lead glass” label on the monochromator side.
- 12. Vinyl should be found on the top and downstream sides of the monochromator.
- 13. Check Exclusion Zone (EZ #3) Bremsstrahlung shield (BS # 3)

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

### USER SYSTEM CHECKS

- A. The pressure measured by Ion Gauge 2 must be less than  $2 \times 10^{-6}$  torr. The Ion Gauge controller is in Rack 2.
- B. The Ion Gauge controller in Rack 3 should read less than  $2 \times 10^{-8}$  torr.
- C. The three MDC gate valves (2B, 3B, and 4B) must be open. All three valves are controlled by a panel in Rack 3, Green indicates open.
- D. Prior to opening the safety shutter, helium should be flowing past Be Window 3. The red-labeled helium flow meter on the outside, aisle side of the hutch monitors this flow.

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