

<b>X25A SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: B</b>	<b>Effective: 5/24/2007</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0056
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Original signatures on file.

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- 1. Valid Padlock Index and log, no locks open
- 2. Scatter shield with Exclusion Zone #1 and Vacuum Bellows under lead. See photo 1
- 3. Lead wrapped around graphite filter tank, lead glass covering viewport secured. See photo 1
- 4. Water cooled Beryllium window #1 wrapped in lead. See photo 1
- 5. Vacuum Bellows #2 wrapped in lead. See photo 1
- 6. Lead wrapped around mirror tank flange port tubing and water feed through bellows (on the top of the mirror tank), lead glass covering 3 viewports (1 on top, 2 on the side) secured. See photo 2
- 7. Bremsstrahlung shield (BS #1) in place and banded. See photo 3
- 8. Vacuum Bellows #3 wrapped in lead. See photo 3
- 9. Lead wrapped around beam pipe at aluminum paddle #1, lead glass covering view port secured as per photo # 3.
- 10. Lead wrapped around beam pipe at aluminum paddle #2 1, lead glass covering view port secured. as per photo # 4.
- 11. Bremsstrahlung shield (BS #2) in place and banded. See photo 4.
- 12. Vacuum Bellows #4 wrapped in lead as per photo # 5.
- 13. Lead wrapped around monochromator tank, lead glass covering (2) view ports secured as per photo # 5.
- 14. Bremsstrahlung Secondary Shielding (BSS) in place as per photo # 6.  
*Note: BSS encloses EZ #2, Photon Shutter shielding and Bremsstrahlung # 3*
- 15. (5) View ports on Mirror tank covered with leaded glass. See photo # 7.
- 16. Lead plates in place on top of Mirror tank as per photo # 7.
- 17. Bellows and beampipe downstream of Mirror tank covered with painted lead shielding as per Photo # 8.
- 18. Bremsstrahlung shield (BS # 4) in place and banded inside hutch. (Lead stop)

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

### **MODE OF OPERATION**

Check One

- MONO- Shutter elevation clamp in correct position
- WHITE- Shutter elevation clamp in correct position and Exhaust hood in place.

### **USER SYSTEM CHECKS**

- A. Manual gate valve 2A opened (The word "open" should be readable)
- B. Manual gate valve 3A opened (The word "open" should be readable)
- C. Manual gate valve 4A (inside hutch) opened (The word "open" should be readable)

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