

<b>X25A SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: A</b>	<b>Effective: 1/1/04</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. Exclusion Zone (EZ #2) in place and banded. See photo 4
- 10. Bremsstrahlung shield (BS # 2) in place and banded. See photo 4
- 11. Lead wrapped around beam pipe at aluminum paddle 1, lead glass covering viewport secured. See photo 5
- 12. Vacuum Bellows #4 wrapped in lead. See photo 5
- 13. Lead wrapped around monochromator tank, lead glass covering viewport secured. See photo 6
- 14. Exclusion Zone (EZ #3) in place and banded.
- 15. Vacuum Bellows #5 wrapped in lead. (Inside EZ #3)
- 16. Lead bricks surround photon shutter. See photo 7
- 17. Bremsstrahlung shield (BS # 3) in place and banded. See photo 7
- 18. Lead wrapped around beam pipe at aluminum paddle 2, lead glass covering viewport secured. See photo 8
- 19. Exclusion Zone (EZ #4) in place and banded. See photo 9
- 20. Bremsstrahlung shield (BS # 4) in place and banded. See photo 9
- 21. Bremsstrahlung shield (BS # 5) in place and banded inside hutch. (Lead stop)

### **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)

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

OPCO: \_\_\_\_\_ Date: \_\_\_\_\_