

X8C SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Original signatures on file.

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- 1. Valid Padlock Index and log, no padlocks open

Check Items 2 through 9 starting at F.E. and proceed downstream between X8 and X7

- 2. Exclusion Zone (EZ #1) in place as per photo 1
- 3. Bremsstrahlung shield (BS #1) in place and secure as per photo 1.
- 4. Exclusion Zone (EZ #2) covering the Bremsstrahlung shield (BS #2) and the leaded glass on collimating mirror upstream view port. As per photo 2.
- 5. Bremsstrahlung shield (BS #5) covered with scatter shield in place and secure as per photo 3.
- 6. Leaded glass on 6" view port upstream side of Monochromator. As per photo 3.
- 7. Check inside Monochromator tank that the slits are in the horizontal position as per photo 4.
- 8. Bremsstrahlung shield (BS #6) in place and secure as per photo 5.
- 9. Leaded glass on 6" view port. View port shielded with lead. As per photo 5.

Check Items 10- 23 starting on the X9 side at the Collimating mirror tank and proceed downstream

- 10. Leaded glass on (3) collimating mirror downstream view ports. 1 partially covered with EZ #3. As per photo 6.
- 11. Exclusion Zone (EZ #3) covering lead wrapped bellows. As per photo 6.
- 12. Bremsstrahlung shield (BS #3) in place and secure. As per photo 6.
- 13. Leaded glass on 8" view port on Bench 3. As per photo 6.
- 14. Bremsstrahlung shield (BS #4) in place and secure. As per photo 7.
- 15. Lead shielding on Bellows between Bench 3 and Monochromator. As per photo 7.
- 16. Leaded glass on 2-3/4" view port upstream side of Monochromator.
- 17. Lead shielding on bellows downstream of Monochromator. As per photo 8.
- 18. Leaded glass on 2-3/4" view port downstream of monochromator. As per photo 8.
- 19. (A, B, C, D, E, F, G, H). Leaded glass on focusing mirror view ports. View ports all shielded with lead as per photo 9.
- 20. Lead shielding on Bellows. As per photo 9.
- 21. Leaded glass on 6" view port on cross. As per photo 10.
- 22. Leaded glass on 8" view port upstream of hutch. As per photo 11.
- 23. Scatter shield back stop in place and secured inside X8C hutch. As per photo 12.

Check Item 24 on the X8A side next to the X8C hutch.

- 24. Check from X8A side of beamline. Exclusion Zone (EZ #4) in place as per photo. Two 10" sections of angle iron secured with hose clamps to the outside of X8C beam pipe, just upstream of the hutch. 1 section covered with lead. As per photo 13.

OPCO / Beamline Staff: _____ Date: _____