

X8C SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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- 1. Valid Padlock Index and log, no padlocks open

Note: Bremsstrahlung shield (BS #1) is located downstream of shield wall in an inaccessible part of the beamline, and therefore not part of the Safety checklist

Check Items 2 through 14, starting at X8A mirror and proceed downstream along X8A

- 2. Bremsstrahlung shield (BS #2) in place and secure, partially covered with sheet lead.
- 3. Leaded glass on collimating mirror upstream view port.
- 4. Check on X9 side. Leaded glass on (3) collimating mirror downstream view ports.
- 5. Lead shielding on Bellows located downstream of the collimating mirror.
- 6. Bremsstrahlung shield (BS #3) in place and secure.
- 7. Check from X9 side of beamline. Leaded glass on 8" view port on Bench 3.
- 8. Bremsstrahlung shield (BS #4) in place and secure.
- 9. Lead shielding on Bellows between Bench 3 and monochromator
- 10. Lead shielding on Monochromator, and Bremsstrahlung shield (BS #5) in place and secure as per photo.
- 11. Leaded glass on 2-3/4" view port upstream side of monochromator.
- 12. Leaded glass on 6" view port upstream side of monochromator.
- 13. Lead shielding on Monochromator, and Bremsstrahlung shield (BS #6) in place and secure as per photo.
- 14. Leaded glass on 6" view port. View port shielded with lead.

Check Items 15 through 19 on X9 side of beamline starting at the X8C monochromator

- 15. Lead shielding on bellows downstream of monochromator
- 16. Leaded glass on 2-3/4" view port downstream of monochromator.
- 17 (A, B, C, D, E, F, G, H). Leaded glass on focusing mirror view ports. View ports all shielded with lead as per photo.
- 18. Lead shielding on Bellows located behind the X8A monochromator.
- 19. 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.
- 20. Leaded glass on 8" view port upstream of hutch.
- 21. Bremsstrahlung shield (BS #7) back stop in place and secured inside X8C hutch.

OPCO / Beamline Staff: _____ Date: _____