

X12B SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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UPSTREAM OF X12A HUTCH

- ? 1. Valid Padlock Index and log, no padlocks open.
- ? 2. Bremsstrahlung shield (BS #1) in place and banded.
- ? 3. Bremsstrahlung shield (BS #2) in place and banded.
- ? 4. Slit tank wrapped in lead. Leaded glass on Observation Port 1.
- ? 5. Water cooled Beryllium window #1 wrapped in lead.
- ? 6. Bremsstrahlung shield 3 (BS #3) intact.
- ? 7. Leaded glass on Observation Port 2 (OP2).
- ? 8. Exclusion Zone (EZ #1) running between OP2 and BS4 intact and secure.
- ? 9. Bremsstrahlung shield (BS #4) in place and banded.

IN X12A HUTCH

- ? 10. Exclusion Zone (EZ #2), wall to wall black foam, in place and intact.

BETWEEN X12A AND X12C HUTCH

- ? 11. Exclusion Zone (EZ #3) before Monochromator intact; Bellows 3 under EZ3 wrapped in lead.
- ? 12. Monochromator tank wrapped in lead; Mono Observation ports 3 & 4 covered with lead glass.
- ? 13. White beam stop assembly wrapped in lead.
- ? 14. Vacuum Bellows #4 on multilayer tank wrapped in lead.
- ? 15. Exclusion Zone (EZ # 4) and Bremsstrahlung shield (BS # 5) in place and intact.
- ? 16. Vacuum Bellows wrapped in painted lead.
- ? 17. Mirror tank viewport covered with lead glass.
- ? 18. Vacuum Bellows wrapped in painted lead.

IN X12C HUTCH

- ? 19. Exclusion Zone (EZ #4) wall to wall intact (In-line bellows 7 wrapped in lead).

BETWEEN X12C AND X12B HUTCH

- ? 20. Exclusion Zone (EZ #5) between X12C hutch and Photon shutter intact.
- ? 21. Beam Observation ports 6&7 covered with lead glass.
- ? 22. Photon shutter lead shielding intact.
- ? 23. Bremsstrahlung shield (BS #6) in place and covered.

IN X12B HUTCH

- ? 24. Bremsstrahlung shield (BS #7) on downstream hutch wall intact and covered.

OPCO / Beamline Staff.: _____ Date: _____