

X18A 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 locks open

STARTING FROM SHIELD WALL AND ENDING AT THE X18A HUTCH. ALL ITEMS CAN BE CHECKED ON THE X17C SIDE EXCEPT 10 WHICH MUST BE CHECKED ON THE X19A SIDE.

2. Lead Exclusion Zone (EZ #1) between shield wall and GP valve in place and banded.
3. Fixed aperture covered with lead and banded.
4. Exclusion Zone (EZ #2) between aperture and the Beryllium window in place and secure.
5. Water cooled Beryllium window #1 wrapped in lead and banded.
6. Perforated metal scatter barrier acting as Exclusion Zone (EZ #3) in place between Beryllium window and Bremsstrahlung shield (BS # 1).
7. Slits chamber Viewport covered with leaded glass.
8. Bremsstrahlung shield (BS # 1) in place and banded.
9. Exclusion Zone (EZ # 4), between Bremsstrahlung shield (BS # 3) and monochromator chamber, in place and banded.
10. Monochromator chamber viewports on back (X18B side) and on top covered with leaded glass.
11. Exclusion Zone (EZ # 5) between the monochromator chamber and Bremsstrahlung shield (BS # 4) in place and banded.
12. Bremsstrahlung shield (BS # 2) in place and banded, photon shutter shielded as per photo.
13. Exclusion Zone (EZ # 6) in place and secured as per photo.
14. Mirror chamber View port covered with leaded plastic.
15. Exclusion Zone (EZ # 7) in place and secured.
16. Cross View port covered with leaded plastic.
17. Bremsstrahlung shield (BS # 3) in place and banded.
18. Exclusion Zone (EZ # 8) in place and secured.
19. Exclusion Zone (EZ # 9) in place and secured.
20. Bremsstrahlung shield (BS # 4) in place and banded.
21. Exclusion Zone (EZ # 10) in place and secured.
22. Exclusion Zone (EZ # 11) in place and secured.
23. Exclusion Zone (EZ # 12) in place and secured.
24. Bremsstrahlung shield (BS # 5) in place and banded downstream and outside of the X18A hutch.

OPCO / Beamline Staff: _____ Date: _____