

X15A SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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- Valid Padlock Index and log, no padlocks open
- 1. Exclusion Zone (EZ #1) in place and secure outside of shield wall.
- 2. Bremsstrahlung shield (BS #1) in place and secure.
- 3. Vacuum Bellows #1 wrapped in 1/16" lead.
- 4. Pump cross, water cooled mask, Beryllium window, spool piece downstream of window wrapped with 1/16" lead.
- 5. Exclusion Zone (EZ #2) aluminum channel in place and secure.
- 6. Bremsstrahlung shield (BS # 2) in place and secure.
- 7. Exclusion Zone (EZ #3) dexion channel on beam-line in place and secure.
- 8. Bremsstrahlung shield (BS # 3) in place and secure.
- 9. Exclusion Zone (EZ #4) dexion channel on beam-line in place and secure.

Checkpoints 10 and 11 are upstream of checkpoint# 8 dual Varian controller

- 10. Pressure check upstream main beam-line (less than -5000V)
- 11. Pressure check downstream main beam-line (less than -5000V)
- 12. Exclusion Zone (EZ #5) and lead shielding on beam-line at hutch entry.
- 13. Lead collar at hutch entry in place and secure
- 14. Next to hutch control panel. Helium flow (Be window) ~30cc/min.
- 15. Lead back-stop behind hutch in place and secure.

OPCO / Beamline Staff: _____ Date: _____