

X13A/B SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Operating Beamline (Choose One)

- X13A
 X13B X13B Mode: White Mono

On X12 side of beamline:

- 1. Exclusion Zone #1 (EZ1) in place and secure, as per photo.
- 2. Bremsstrahlung shield (BS #1) in place and banded as per photo
- 3. Mirror Tank shielded as per photo.
- 4. Bremsstrahlung shield (BS #2) in place and banded as per photo
- 5. Scatter shield on valves as per photo.

On X14 side of beamline:

- 6. Beam stop banded and secure as per photo.
- 7. Scatter shield as per photo.
- 8. Bremsstrahlung shield (BS #3) in place and banded as per photo.
- 9. Lead glass on View port
- 10. Bremsstrahlung shield (BS #4) in place and banded as per photo
- 11. Bremsstrahlung shield (BS #5) in place and banded as per photo
- 12. Bremsstrahlung shield (BS #6) in place and banded inside X13B hutch as per photo

For White Beam Mode only:

- 13. X13B Photon shutter mechanically locked open, air supply off (LED indication green)

User System Checks

On X12 side of beamline:

- A. Valve V1 open.
- B. Valve V2A and V2B open
- C. Water cooling for Mirror Tank, proteus impeller spinning
- D. Water cooling for entrance slit, proteus impeller spinning
- E. Valve V3A open
- F. Valve V4A open (for X13A Operation)

On X14 side of beamline:

- G. Water cooling for Be Window, slit filter assembly, and copper backstop; proteus impeller spinning

For X13B White Beam Mode Operation Only:

- H. Valve V3B in opened position (LED indication green on panel mounted outside of hutch)
- I. Water cooling for hutch Be Window on, proteus impeller spinning.
- J. Helium gas flow between Be Windows on (or vacuum in-between).

Checked by: _____ Date: _____

OPCO: _____ Date: _____