

U3B SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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A. Front End Vacuum

With mask and shutter closed or no beam in the machine, pressure must be 6 nTorr or less

B. Beamline Isolation Valves

All beamline U3A, U3B and U3C isolation valves must be in the open position or the photon masks closed.

C. Numbered Checkpoints

Checkpoints 1 through 9 are checked from the U2 side of beamline.

- 1. Bremsstrahlung Shielding (BS #1)/Front end shielding in place as per photo.
- 2. Glass View ports on mirror chamber are covered (5 on U2 side of tank, 2 on top)
- 3. Bremsstrahlung Shielding (BS #2A, 2B, 2C) in place and secure.
- 4. Exclusion Zone (EZ #1), blue cage, in place and secure.
- 5. Bremsstrahlung Shielding (BS #3A) in place and secure.
- 6. Exclusion Zone (EZ #2A) in place and secure. Two sections of aluminum plates between EZ #1 and U3A Valve 2A.
- 7. Bremsstrahlung Shielding (BS #4A) in place and secure inside EZ #2A.
- 8. Bremsstrahlung Shielding (BS #5A) in place and secure inside EZ #2A.
- 9. Bremsstrahlung Shielding (BS #3B) in place and secure.

Note: Bremsstrahlung Shielding (BS # 6A) is located inside the U3A chamber.

Checkpoints 10 and 11 are checked on the U4 side.

- 10. All beamline visible light glass view ports covered.
- 11. Bremsstrahlung Shielding (BS #3C) in place and secured.

OPCO / Beamline Rep.: _____ Date: _____