

U13UB SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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A. FRONT-END VACUUM

With mask closed, or no beam in the machine, pressure must be 2.0×10^{-9} or less.

B. BEAMLINE ISOLATION VALVES

All beamline isolation valves (V1A/B, V2B, V3B, V4B, V5B) must be unsealed and in the open position.

C. BEAMLINE INTERLOCKS

The beamline user Interlock must be in the "enable" state. This interlock is the logical And of the following states (in addition to the standard front-end pressure interlocks, etc.): "V1A/B OPEN", "V2B OPEN", "V3B OPEN", "V4B OPEN", "V5B OPEN", "4 M0/M1 Mirrors all out", and "U13UB water cooling (M0,M1, and S0) flow ok".

D. NUMBERED CHECKPOINTS

The following checkpoints start at the Front End. The purpose of the list is to ensure that all shielding and exclusion zones are in place and secured.

- 1. BREMSSTRALUNG SHIELDING (BS # 1 and BS #2) as per photo.
Note: Exclusion Zone (EZ#1) is located between BS#1 and BS#2)
- 2. EXCLUSION ZONE EZ #2 (6" diameter, extending 2.5" downstream of BS-2 and 3.5" upstream of BS #3).
- 3. BREMSSTRALUNG SHIELDING BS #3 (BANDED AND Photographed)
- 4. BREMSSTRALUNG SCATTER SHIELDING BSS-1 (In place and secured)
- 5. BREMSSTRALUNG SCATTER SHIELDING BSS-2 (In place and secured)
- 6. BREMSSTRALUNG SHIELDING BS #4 (BANDED AND Photographed)
- 7. BREMSSTRALUNG SCATTER SHIELDING BSS-3 (In place and secured)
- 8. EXCLUSION ZONE EZ #3 (8" diameter, extending 12" upstream and downstream of valve V2B) located between BSS-3 shields.
- 9. BREMSSTRALUNG SHIELDING BS #5 (BANDED AND Photographed)
- 10. BREMSSTRALUNG SCATTER SHIELDING BSS-4 (In place and secured)
- 11. BREMSSTRALUNG SHIELDING BS #6 (BANDED AND Photographed)
- 12. All visible light view port covers in place and secured.

OPCO / Beamline Rep.: _____ Date: _____