

<b>U8B SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: D</b>	<b>Effective: 4/9/2012</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0075
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**\_\_\_ A. FRONT END VACUUM**

With the Mask closed, or no beam in the machine, pressure must be  $2.0 \times 10^{-9}$  Torr or less.

**\_\_\_ B. BEAMLINE ISOLATION VALVES**

All beamline isolation valves must be unsealed and in the open position.

**\_\_\_ C. 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. Refer to the Beamline Diagram.

- 1. Exclusion Zone #1 (EZ #1) between the shield wall and BS#1 as per photo
- 2. Bremsstrahlung Shielding BS #1 in place and banded as per photo.
- 3. Bremsstrahlung Shielding BS #2 in place and banded as per photo
- 4. Exclusion Zone #2 (EZ #2) between BS #1 and BS #4 as per photo
- 5. Exclusion Zone #3 (EZ #3) between BS#1 and BS# 5 as per photo
- 6. Bremsstrahlung Shielding BS #3 in place and banded as per photo
- 7. Bremsstrahlung Shielding BS #4 in place and banded as per photo
- 8. Bremsstrahlung Shielding BS #5 in place and banded as per photo

**VISIBLE LIGHT CHECKS**

- All viewports capable of transmitting the visible part of the beam must be covered. The cover must be labeled "Warning-Intense Light Hazard, DO NOT STARE INTO THE BEAM"

OPCO / Beamline Rep.: \_\_\_\_\_ Date: \_\_\_\_\_

**USER SYSTEM CHECKS**

- A. The Doors on the Magnet enclosure should remain closed during end-station operation. If the doors are open the walkway needs to be posted for magnetic fields.

User / Beamline Rep.: \_\_\_\_\_ Date: \_\_\_\_\_