

<b>X1A SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: F</b>	<b>Effective:09/11/2011</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0003
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**Check Points 1-3 start on X1A side of Beam line.**

- 1. Check from X1A side. Optical covers over the 2.75" and 8" viewports on the X1A mirror tank must be in place as per photo.
- 2. Check from the X1A side downstream and around valve V3A. Lead scatter shielding wrapped around the rear section of the X1B mirror tank and the initial section of the X1A beam line as per photo. Located behind chipmunk.
- 3. Check from X1A side. The lead backstop must be in place as per photo. This includes lead shielding between cross pipe section and the backstop

**Check Point 4-7 start on X2 Side of Beam line.**

- 4. Check from X1B side. Exclusion Zone #1 (EZ #1) between the shield wall and the X1A mirror tank as per photo.
- 5. Check from X1B side, located under EZ #2. The lead collar between the X1A mirror tank and valve V2 and the lead shield covering the 8" bellows between the X1A and X1B mirror tanks must be in place.
- 6. Check from X1B side. Exclusion zone #2 (EZ #2), between X1A mirror tank and X1B mirror tank as per photo.
- 7. Check from X1B side. The optical covers over the 4.5" and two 10" view ports on the X1B mirror tank must be in place. (The 4.5" viewport is located under EZ#2.)
- 8. Valid Padlock Index and log. **Note:** If the padlock is locked on the sample chamber or the air valve beamlines X1A1 and X1A2 can be enabled.

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