

<b>X3B1/2 SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: A</b>	<b>Effective: 1/01/04</b>	<b>Page 1 of 1</b>	Number: LS-SCL-0008
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CHECK OPERATING MODE:  **X3B1 ONLY MODE** *or*  
 **BOTH BRANCHES MODE**

- 1. Valid Padlock checklist
- 2. Bremsstrahlung Shield (BS #1) as per photo
- 3. Scatter shield around vacuum bellows
- 4. Exclusion Zone (EZ#1) Area between X3B beam pipe and X3A monochromator and mirror tank, from vacuum bellows on monochromator box upstream side, must be stuffed with foam.
- 5. Cross section wrapped in lead as per photo
- 6. Beam pipe shielded from cross section to monochromator box as per photos
- 7. Bellows between X3B1 hutch and X3A2 hutch wrapped in lead

**IF BEAMLINE IS TO BE OPERATED IN X3B1 ONLY MODE:**

- 8. X3B2 Photon Shutter padlocked

**IF BEAMLINE IS TO BE OPERATED IN BOTH BRANCHES MODE:**

- 9. Bellows between photon shutter and surface vacuum chamber wrapped in lead
- 10. All (3) sample chamber view ports covered with leaded glass

**USER SYSTEM CHECKS**

- A. Monochromator Atmosphere Logbook- kept on shelf adjacent to cylinders on back wall. Must show less than 0.1% Oxygen from analyzer or purge of at least 300 cubic feet = 2700 psi from gas cylinders.
- B. Gas Bubbler must be active, showing flow of monochromator purge gas.

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

OPCO: \_\_\_\_\_ Date: \_\_\_\_\_