

<b>X13A/B SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: D</b>	<b>Effective: 5/24/2007</b>	<b>Page 1 of 1</b>	Number: LS-SCL- 0028
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### Operating Beamline (Choose One)

- X13A  
 X13B    X13B Mode:  White     Mono

1. Valid Padlock Index and log, no padlocks open (Check yellow board on X13B hutch)

#### On X12 side of beamline:

2. Exclusion Zone #1 (EZ1) and Bremsstrahlung shield (BS #1) in place and secure, as per photo.  
 3. Mirror Tank shielded and (3) view ports secured with screwed lead covers as per photo.  
 4. Bremsstrahlung shield (BS #2) in place and banded as per photo  
 5. Scatter shield on valves V2A and V2B as per photo.

#### On X14 side of beamline:

6. Beam stop (Cu block at X13B) downstream of BS#2, banded and secure as per photo.  
 7. Scatter shield upstream of BS #3 as per photo.  
 8. Bremsstrahlung shield (BS #3) in place and banded as per photo.  
 9. Lead glass on X13B monochromator tank view port  
 10. Bremsstrahlung shield (BS #4) in place and banded as per photo  
 11. Bremsstrahlung shield (BS #5) in place and banded as per photo  
 12. Bremsstrahlung shield (BS #6) in place and banded inside X13B hutch as per photo

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

## User System Checks

#### On X12 side of beamline:

- A. Valve V1 open.  
 B. Valve V2A and V2B open  
 C. Water cooling for X13A entrance slit, proteus impeller spinning  
 D. Valve V3A open (for X13A Operation)  
 E. Valve V4A open (for X13A Operation)

#### On X14 side of beamline:

- F. Water cooling for Mask and aperture in X13A Mirror tank, proteus impeller spinning  
 G. Water cooling for X13A Mirror, proteus impeller spinning  
 H. Water cooling for Be Window, slit filter assembly, copper backstop, and photon shutter; proteus impeller spinning

#### For X13B White Beam Mode Operation Only:

- I. Valve V3B in opened position  
 J. Water cooling for hutch Be Window, proteus impeller spinning.  
 K. Helium gas flow between Be Windows

Beamline Rep.: \_\_\_\_\_ Date: \_\_\_\_\_