

X19C SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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1. Valid Padlock Index and log, all padlocks closed

2-12 ARE TO BE CHECKED BETWEEN X19 AND X20

2. Exclusion Zone (EZ #1) X19A/X19C in place and banded as in photo 1.
3. Bremsstrahlung shield (BS #1) in place and banded as in photo 1.
4. Vacuum Bellows (VB #1), Water cooled Beryllium window (BW #1), Exclusion Zone (EZ #2) in place and banded as in photo 2.
5. Bremsstrahlung shield (BS # 2), Vacuum Bellows (VB #2) wrapped in lead and banded as in photo 3.
6. Phosphor screen chamber (PS #1) wrapped in lead, Viewport on PS #1: front vp covered with lead glass and clamped, back vp covered with lead and clamped as in photo 4.
7. Lead Exclusion Zone (EZ #3) with Vacuum Bellows #3 inside of EZ #3. Bremsstrahlung shield (BS # 3) in place and banded as in photo 4.
8. Slit box and viewport wrapped in lead and banded (on back side) Vacuum Bellows #4 wrapped in lead and banded and Scatter Shield as in photo 5.
9. Mirror tank and 4 Viewports with lead glass wrapped in lead and banded as in photo 6.
10. Bremsstrahlung shield (BS # 4) in place and banded as in photo 7.
11. Vacuum Bellows #5 wrapped in lead, Phosphor screen chamber (PS #2), Viewport on PS #2: front and back covered with lead glass and clamped as in photo 8.
12. Vacuum Bellows #6 wrapped in lead and banded.

13 AND 14 ARE IN X19A HUTCH

13. Lead shielding for X19C pipe, at X19A upstream wall as in photo 9.
14. Slit assembly wrapped in lead, and viewport covered in lead glass, Vacuum Bellows #7 wrapped in lead and banded as in photo 10.

15 IS IN THE X19C HUTCH

15. Vacuum Bellows #8 wrapped in lead

16 IS OUTSIDE OF THE X19C HUTCH ON THE DOWNSTREAM WALL

16. Bremsstrahlung shield (BS # 6) in place and banded. (Beam-stop) as in photo 11.

OPCO / Beamline Staff: _____ Date: _____