X22C SAFETY CHECKLIST				N	BROOKHAVEN NATIONAL LABORATORY JATIONAL SYNCHROTRON LIGHT SOURCE
Rev: D	Effective: 5/24/2	2010	Page 1 of	1 1	Number: LS-SCL-0050
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Original signatures on file

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ON THE X21	SIDE				
<ul> <li>□ 1. Valid Padlock Index and log, no locks open.</li> <li>□ 2. Exclusion Zone (EZ #1) between Isolation Valve</li> <li>□ 3. Bremsstrahlung shield (BS #1) in place and bande</li> <li>□ 4. Exclusion Zone (EZ #2) downstream of Bremsstr</li> <li>□ 5. Vacuum Bellows #1 wrapped in lead downstream</li> <li>□ 6. Vacuum Bellows #2 wrapped in lead upstream of</li> <li>□ 7. Bremsstrahlung shield (BS # 2) in place and bande</li> <li>□ 8. Vacuum Bellows #3 wrapped in lead downstream</li> </ul>	ed see photo 1. rahlung shield (BS #1) n of Bremsstrahlung shield (BS #1). f Bremsstrahlung shield (BS #2). led see photo 2.				
ON THE X23 SIDE					
<ul> <li>□ 9. Exclusion Zone (EZ #3) upstream of Bremsstrahlung shield (BS #3).</li> <li>□ 10. Bremsstrahlung shield (BS # 3) in place and banded see photo 3.</li> <li>□ 11. Water cooled Beryllium window #1C wrapped in lead downstream of BS #3. see photo 3A</li> <li>□ 12. Vacuum Bellows #4 wrapped in lead downstream of BS #3. see photo 3A</li> <li>□ 13. Mask and Slit Tank wrapped in lead. See photo 3B</li> <li>□ 14. Vacuum Bellows #5 wrapped in lead upstream of BS #5. see photo 3B</li> <li>□ 15. Exclusion Zone (EZ #4) upstream of Bremsstrahlung shield (BS #5).</li> <li>□ 16. Bremsstrahlung shield (BS # 5) in place and banded see photo 4.</li> <li>□ 17. Vacuum Bellows #6 wrapped in lead downstream of Bremsstrahlung shield (BS #5).</li> <li>□ 18. Bremsstrahlung shield (BS # 6) in place and banded see photo 5.</li> <li>□ 19. Exclusion Zone (EZ #5) downstream of Bremsstrahlung shield (BS #6).</li> <li>□ 20. Bremsstrahlung shield (BS # 7) in place and banded and upstream scatter shielding. see photo</li> <li>□ 21. Water cooled Beryllium window #2C wrapped in lead upstream of Monochrometer tank.</li> <li>□ 22. Lead skirt and leaded Plexiglas on viewport on Monochrometer tank.(At 10 o'clock position)</li> <li>□ 24. Exclusion Zone (EZ #6) upstream of Bremsstrahlung shield (BS #8).</li> <li>□ 25. Bremsstrahlung shield (BS # 8) in place and banded see photo 7.</li> <li>□ 26. Exclusion Zone (EZ #7) downstream of Bremsstrahlung shield (BS #8).</li> <li>□ 27. Vacuum Bellows #7 wrapped in lead downstream of Bremsstrahlung shield (BS #8).</li> </ul>					
<b>INSIDE OF THE X22C HUTCH</b>					
<ul> <li>□ 28. Leaded Plexiglas window where beam tube enters the hutch is in place.</li> <li>□ 29. Bremsstrahlung shield (BS # 9) in place and banded outside of hutch see photo 8.</li> </ul>					
OPCO / Beamline Staff:	Date:				
USER SYSTEM CHECKS					
$\Box$ A. Monochromator tank pressure< 2x10-6 Torr. Pressure indicated on ion pump controller.					
Beamline Rep.: Date:	:				