

X12A SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
Rev: C	Effective: 5/6/2010	Page 1 of 1	Number: LS-SCL-0001
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1. Valid padlock log, no padlocks open (on hutch door)
2. Perforated aluminum exclusion zone EZ0 in place between shield wall and Bremsstrahlung shield.
3. Bremsstrahlung shield BS1 in place and secure, as in photograph
4. Perforated aluminum exclusion zone EZ1 (part 1) in place and secure.
5. Water is flowing through the beryllium window (check that the paddle is turning in flowmeter mounted on wall above beamline).
6. Outboard lead brick of X12B Bremsstrahlung shield in place and secure (acts as X12A exclusion zone)
7. Perforated aluminum exclusion zone EZ1 (part 2) in place and secure.
8. Lead wrapped around instrumentation cross as in photograph
9. Glass viewport on instrumentation cross covered with leaded glass window and glass sheet, secure in place
10. Perforated aluminum exclusion zone EZ1 (part 3) covering instrumentation cross and pipe to Bremsstrahlung shield BS2
11. Bremsstrahlung shield BS2 in place and secure as in photograph
12. Lead wrapped around bellows and spool-piece in place, covered in Perforated metal
13. Slit tank wrapped in lead sheet and banded as in photograph
14. Bellows downstream of Valve 2A wrapped in lead outside of 4" flange
15. Monochromator tank wrapped in lead and banded as in photograph
16. Glass viewport on top of monochromator tank covered with leaded glass window and lead sheet, secure in place
17. Electrical feed-through on top of monochromator tank fitted with lead cover.
18. Diagnostic-cross wrapped in lead as in photograph
19. Glass viewport on diagnostic-cross fitted with leaded glass window secure in place
20. Bellows downstream of diagnostic cross wrapped in lead
21. Lead wrapped around beampipe in place from hutch wall out to bellows.
22. Beam-dump in place and secure (outside of hutch on downstream side, see picture).
23. Users interlocks all satisfied (all green light on panel in relay rack above walkway)
24. Painted lead lining on hutch walls and inside door in place and secure.
25. Beryllium window terminating beamline in place and coated with corrosion inhibitor (see pictures)

OPCO / Beamline Staff: _____ Date: _____