

<b>U12IR SAFETY CHECKLIST</b>			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
<b>Rev: C</b>	<b>Effective: 5/24/2010</b>	<b>Page 1 of 1</b>	Number: LS-SCL- 0082
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A safety checklist must be completed with the posting of an experiment safety approval form. It must be signed by a person listed on the safety approval form who has received beamline specific training.

- During normal operations of the VUV ring, vacuum valve V1 is open and GP ion gauge G1 reads the pressure in the M1/M2/M3 mirror chamber along with the ring itself. The M1/M2 mirror assembly is in its operating (inserted) position.
- Vacuum valve V2 serves as primary beamline isolation valve. It is interlocked to GP ion gauge G2. Fast valve V3 is interlocked to a mini-ion pump near gauge G2.
- U12IR has no safety shutter, exclusion zones, nor additional (beamline specific) lead shielding. Beam is extracted vertically from behind the existing ring wall.

Safety checklist pertains to: visible, infrared and UV light hazard and vacuum integrity.

- 1. Pressure downstream of V2 is  $\sim 2 \times 10^{-9}$  Torr or below, as read on ion gauge #G2
- 2. Viewport upstream of light cone (1 foot before diamond window) is covered.
- 3. Synchrotron beam from diamond window is fully contained.
- 4. If used. Hg arc lamp sources will be contained to prevent hazardous exposure to UV light.

OPCO / Beamline Rep.: \_\_\_\_\_ Date: \_\_\_\_\_