U12IR SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
Rev: B	**Effective: 5/24/2007**	**Page** 1 **of** 1	Number: LS-SCL- 0082
Reviewed by: Thomas McDonald	Reviewed by:		**Approved by: J. Aloi**

Original signatures on file.

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 ~$2x10^{-9}$ 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:_____