

<b>NSLS II</b> <b>BROOKHAVEN NATIONAL LABORATORY</b>	Prepared by: Lee Hammons <i>LH</i> 10/17/18

<b>TITLE:</b> <p style="text-align: center; color: blue;">IRR Preliminary Report  NSLS-II Ultra-High Vacuum Optical Extraction (UHVOE) at Cell 22</p>
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The IRR Team has completed the on-site readiness review and document analysis for the subject instrument. This report provides a preliminary listing of the pre-start findings identified in the review.

The Review Team identified four pre-start findings for the UHVOE instrument:

- **Finding:** The commissioning plan does not include a Phase III radiation survey step to address radiation fields for the as-built configuration of the beamline including the HDPE shielding.
- **Finding:** The viewports for the system require the control of their configuration to mitigate the potential for eye exposure to broadband UV radiation.
- **Finding:** Some method of warning staff with cataract surgery must be deployed to protect these individuals from the visible-light hazards.
- **Finding:** The non-ionizing radiation hazard analysis for the synchrotron beam has not been approved. [Self-Identified Pre-Start]

Authorization to begin technical commissioning of the UHVOE instrument must wait for closure of the pre-start items listed above.

Post-start findings and observations will be detailed in a final IRR report.