WORK SCOPE

This work instruction provides instructions for the venting and pump-down of the LARIAT-II endstation at the 7-ID-1 Beamline.

This work instruction will enable Authorized Beamline Staff to safely perform configuration changes requiring venting and pump-down of the LARIAT-II endstation.

PREREQUISITES

2.1 Only Authorized Personnel shall perform this work.

2.2 Authorized Personnel shall have a copy of NSLSII-VAC-PRC-007, Beamline Vacuum System Venting to use with this work instruction.

PRECAUTIONS/WARNINGS

3.1 Do not leave gas venting operations unattended.

INSTRUCTIONS

4.1 LARIAT-II Endstation Venting

4.1.1 Close or check closed upstream endstation valves # 32 and # 33 AND ensure that they are sealed.
4.1.2 Ensure the detector and source electronics are powered off.

4.1.3 Isolate OR power off the LARIAT-II endstation pumps AND the ion gauges.

4.1.4 Vent the LARIAT-II endstation= in accordance with NSLSII-VAC-PRC-007, *Beamline Vacuum System Venting*.

4.2 **LARIAT-II Endstation Pump-down**

4.2.1 Pump-down using an NSLS-II Pump Station OR a chamber roughing pump.

4.2.2 Ensure the LARIAT-II endstation vacuum achieves less than 5 x 10^-7 torr pressure.

4.2.3 When the above vacuum pressure is established, then open upstream endstation valve # 33 and monitor the pressure in the LARIAT-II chamber.

4.2.4 When the above vacuum pressure is established, then open upstream endstation valve # 32.
Title: Vent and Pump-down of the LARIAT-II Endstation at 7-ID-1

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