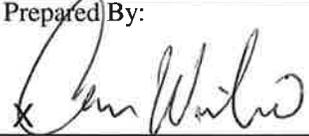


The only official copy of this document is the one online in the NSLS-II Document and Records Center. Before using a printed copy, verify that it is current by checking the printed document's revision history with that of the online version.

<b>Brookhaven National Laboratory</b> <b>National Synchrotron Light Source II</b> Work Instruction	Doc No. <b>NSLSII-7ID-WIN-004</b> Effective Date: <b>12SEP2018</b> Review Frequency: <b>5 yrs</b> Rev. No. <b>1</b>
Title: <b>Vent and Pump-down of the LARIAT-II Endstation at 7-ID-1</b>	

Prepared By:  Conan Weiland SST-2 Lead Beamline Scientist	Reviewed By:  Cherno Jaye SST-1 Lead Beamline Scientist	Approved By:  Daniel Fischer NIST Synchrotron Science Group Leader
---	--	--

## 1 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.

## 2 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.

## 3 PRECAUTIONS/WARNINGS

- 3.1 Do not leave gas venting operations unattended.

## 4 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.

The only official copy of this document is the one online in the NSLS-II Document and Records Center. Before using a printed copy, verify that it is current by checking the printed document's revision history with that of the online version.

<p style="text-align: center;"><b>Brookhaven National Laboratory</b> <b>National Synchrotron Light Source II</b> Work Instruction</p>	<p>Doc No. <b>NSLSII-7ID-WIN-004</b> Effective Date: <b>12SEP2018</b> Review Frequency: <b>5 yrs</b> Rev. No. <b>1</b></p>
<p>Title: <b>Vent and Pump-down of the LARIAT-II Endstation at 7-ID-1</b></p>	

- 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  $5 \times 10^{-7}$  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.

The only official copy of this document is the one online in the NSLS-II Document and Records Center. Before using a printed copy, verify that it is current by checking the printed document's revision history with that of the online version.

<b>Brookhaven National Laboratory</b> <b>National Synchrotron Light Source II</b> Work Instruction	Doc No. <b>NSLSII-7ID-WIN-004</b> Effective Date: <b>12SEP2018</b> Review Frequency: <b>5 yrs</b> Rev. No. 1
Title: <b>Vent and Pump-down of the LARIAT-II Endstation at 7-ID-1</b>	

### REVISION HISTORY

REVISION	SECTION(S)	PAGE #	DATE	List of Reviewers	DESCRIPTION
1	All	All	10SEP2018	R. Todd	First Issue.

[If you have any questions or feedback regarding this document, please click this link.](#)

