NSLS-II

NATIONAL SYNCHROTRON LIGHT SOURCE II

SST PHOTON DELIVERY SYS. ACCEPTANCE TEST

Rev Date: 01/18/2018
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Approved: 01/22/2018

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Serial No	Part No *	Part Rev	ECN	Rev	ECN	Rev
	PD-SST-RAYT-0001					

Deviation & Waiver: _____

OP	Description	Name/Life #	Date	DR

- Closed DR attached
10 pages

OP	Description	Name/Life #	Date	DR
10	TRAVELER INFORMATION - This traveler covers the installation and site acceptance testing of the Photon Delivery System (excluding secondary brem shielding and shielded pipe) delivered by FMB-Oxford Inc. These components include:	Joe Woicik W5602	2/2/18	

Beamline Components FOE
L1 Mirror, M1 Mirror, White Beam Slits 1, White Beam Slits 2, L2A/L2B Mirror.

Radiation Safety Components FOE
FM1 White Beam Mask, White Beam Stop , FM4 Cooled Aperture, FM2 Cooled aperture, Lead Primary Brem ~~Stop,~~ SHIELD J.C.W. Tungsten Primary Brem Stop, Cooled CVD Fluorescence Screen 2, Cooled CVD Fluorescence Screen 6.

BSS 2/5/18 cooled frame for FS-L Branch (FS2)

Beamline Components L Branch
Double Crystal Monochromator, Diagnostics Module 1/Fluorescent Screen 3, Fluorescent Screen 4, L3 Mirror, L4 Mirror, Diagnostics Module 2-1/Fluorescent Screen 5

cooled frame for FS-M Branch (FS6) J.C.W. 2/7/18

Radiation Safety Components L Branch
FM3 Cooled mask, L Branch Pink Beam Stop

Beamline Components M Branch
Plane Grating Monochromator, M3AB/M3C Mirror, Fluorescent Screen 7, Diagnostics Module 6/Fluorescent Screen 12, Precision Slit C, M4C/M4D Mirror, Diagnostic Module 7/Fluorescent Screen 13, M5C Mirror, Diagnostics Module 8/Fluorescent Screen 14

Radiation Safety Components M Branch
PBM Zero Order Mask, Uncooled Apertures, Pink beam stop ~~(FS7)~~ J.C.W 2/7/18

Beamline Components Transfer Branch
Diagnostics Module 3/Fluorescent Screen 8, Precision Slit AB, M4A Mirror, Diagnostic Module 4/Fluorescent Screen 9, Diagnostics Module 5/Florescent Screen 10, M4B Mirror, Diagnostics Module 2-2/Fluorescent Screen 11

~~See the following NIST documents/records for detailed specification:~~
~~1)~~ J.C.W. 2/7/18 NA

20	Follow the ESH and PPE requirements for the area. Wear safety glasses, safety shoes and gloves for physical installation as applicable	Joe Woicik W5602	2/2/18	

OP	Description	Name/Life #	Date	DR
30	Verify measuring and test equipment used for this procedure contains a valid calibration label in accordance with NSLS-II Calibration Procedure PS-QAP-0901, where applicable. The technician is responsible for notifying the technical supervisor and/or the cognizant engineer of any discrepancies occurring during the performance of this procedure. All discrepancies shall be identified and reported in accordance with NSLS-II Discrepancy Reporting Procedure PS-QAP-0002.	JOE WOICIK WJ602	2/2/18	
40	Verify installation of the following components according to the vendor's installation documentation: __L1 Mirror __M1 Mirror __ White Beam Slits 1 __ White Beam Slits 2 __L2A/L2B Mirror	JOE WOICIK WJ602	2/2/18	
50	SURVEY GROUP A. Verify alignment of the following components: ✓ L1 Mirror ✓ M1 Mirror ✓ White Beam Slits 1 ✓ White Beam Slits 2 ✓ L2A/L2B Mirror ~~B. Attach survey report to this traveler~~ NA J.C.W. 2/5/18	H-HUBBARD 20503	2/5/18	
60	Verify installation of the following components according to the vendor's installation documentation: ✓ FM1 White Beam Mask ✓ White Beam Stop ✓ FM4 Cooled Aperture ✓ FM2 Cooled aperture ✓ Lead Primary Brem Stop ✓ Tungsten Primary Brem Stop ✓ Cooled CVD Fluorescence Screen 2 ✓ Cooled CVD Fluorescence Screen 6	JOE WOICIK WJ602	2/2/18	
70	SURVEY GROUP: A. Verify alignment of the following components per traveler BL-SRVY-001: __FM1 White Beam Mask __White Beam Stop __FM4 Cooled Aperture __FM2 Cooled aperture __ Lead Primary Brem ~~Stop~~ __Tungsten Primary Brem Stop __Cooled CVD Fluorescence Screen 2 __Cooled CVD Fluorescence Screen 6 SHIELDS J.C.W. 2/5/18 B. Attach a completed traveler for each above component to this traveler	HUBBARD 20503	2/7/18	

OP	Description	Name/Life #	Date	DR
80	Verify installation of the following components according to the vendor's installation documentation: ✓ Double Crystal Monochromator ✓ Diagnostics Module 1/Fluorescent Screen 3 ✓ Fluorescent Screen 4 ✓ L3 Mirror ✓ L4 Mirror ✓ Diagnostics Module 2-1/Fluorescent Screen 5	JOE WOICIK WS602	2/2/18	
90	SURVEY GROUP A. Verify alignment of the following components: ✓ Double Crystal Monochromator ✓ Diagnostics Module 1/Fluorescent Screen 3 ✓ Fluorescent Screen 4 ✓ L3 Mirror ✓ L4 Mirror ✓ Diagnostics Module 2-1/Fluorescent Screen 5 ~~B. Attach survey report to this traveler~~ NA J.C.W. 1/5/18	HUBBARD 20563	2/5/18	
100	Verify installation of the following components per the vendor's installation documentation: ✓ FM3 Cooled mask ✓ L Branch Pink Beam Stop	JOE WOICIK WS602	2/2/18	
110	SURVEY GROUP A. Verify alignment of the following components per traveler BL-SRVY-001: ✓ FM3 Cooled mask ✓ L Branch Pink Beam Stop B. Attach a completed traveler for each above component to this traveler	HUBBARD 20563	2/7/18	
120	Verify installation of the following components according to the vendor's installation documentation: ✓ Plane Grating Monochromator ✓ M3AB/M3C Mirror ✓ Fluorescent Screen 7 ✓ Diagnostics Module 6/Fluorescent Screen 12 ✓ Precision Slit C ✓ M4C/M4D Mirror ✓ Diagnostic Module 7/Fluorescent Screen 13 ✓ M5C Mirror ✓ Diagnostics Module 8/Fluorescent Screen 14	JOE WOICIK WS602	2/2/18	

OP	Description	Name/Life #	Date	DR
130	SURVEY GROUP A. Verify alignment of the following components: ✓ Plane Grating Monochromator ✓ M3AB/M3C Mirror ✓ Fluorescent Screen 7 ✓ Diagnostics Module 6/Fluorescent Screen 12 ✓ Precision Slit C ✓ M4C/M4D Mirror ✓ Diagnostic Module 7/Fluorescent Screen 13 ✓ M5C Mirror ✓ Diagnostics Module 8/Fluorescent Screen 14 ~~B. Attach survey report to this traveler~~ NA J.C.W 2/5/18	HUBBARD 20563	2/5/18	
140	Verify installation of the following components according to the vendors installation documentation: ✓ Zero Order Mask ✓ Uncooled Apertures ✓ Pink beam stop (FS7)	JOE WOICIK WJ602	2/2/18	
150	SURVEY GROUP A. Verify alignment of the following components per traveler BL-SRVY-001: ✓ Zero Order Mask ✓ Uncooled Apertures ✓ Pink beam stop (FS7) B. Attach completed traveler to this traveler	HUBBARD 20562	2/7/18	
160	Verify installation of the following components according to the vendor's installation documentation: ✓ Diagnostics Module 3/Fluorescent Screen 8 ✓ Precision Slit AB ✓ M4A Mirror ✓ Diagnostic Module 4/Fluorescent Screen 9 ✓ Diagnostics Module 5/Florescent Screen 10 ✓ M4B Mirror ✓ Diagnostics Module 2-2/Fluorescent Screen 11	JOE WOICIK WJ602	2/2/18	
170	SURVEY GROUP A. Verify alignment of the following components: ✓ Diagnostics Module 3/Fluorescent Screen 8 ✓ Precision Slit AB ✓ M4A Mirror ✓ Diagnostic Module 4/Fluorescent Screen 9 ✓ Diagnostics Module 5/Florescent Screen 10 ✓ M4B Mirror ✓ Diagnostics Module 2-2/Fluorescent Screen 11 ~~B. Attach survey report to this traveler~~ NA J.C.W. 2/5/18	HUBBARD 20562	2/5/18	

OP	Description	Name/Life #	Date	DR
180	VACUUM TESTING - Perform vacuum testing as per traveler BL-VA-001. - Attach completed BL-VA-001 travelers to this traveler.	P. Tran / 18710	2/5/18	
190	Motion Testing with NSLS-II Motion Control System: Verify the motion of all motorized axes of the beamline components listed above. Also verify the function of travel limits, over-travel limits, encoders, and home switches where applicable. Document results and attach test report.	K5102	2/1/2018	
200	Verify All Traveler Operations Complete	Joe Woicik W3602	2/7/18	
210	REVISION HISTORY (This step is informational and does not require signoff) Rev - Description - Date B First Release			