

02/15/2018
 Pre-start findings
 from the SST IRR
 Ackerman

	Finding	Action(s)	Evidence
1	The Instrument Readiness Plan NSLSII-7ID-PLN-002 is not complete. Several of the items in the plan do not bear signatures.	Complete the SST IRP	* IRP
2	It appears that there may be some devices that are inappropriately/overly configuration controlled. These devices may inhibit the progress of commissioning in their current state. These include, for example, certain actuators on the PGM.	Revise the SST Configuration Control Checklist and beamline labeling to include: - remove EPS water from configuration control (i.e. arrow out) - remove actuators on PGM from configuration control (i.e. arrow out) - place arrows on GVs in consistent manner such that only actuators are arrowed out - remove potentially confusing double arrows from shutters	* CCC
		Complete the the process to approve the new checklist: * Review with RSC subcommittee. * Memo from RSC to Mechanical Engineering recommending approval of the new list. * Mechanical Engineering approval of the new checklist.	* CCC * RSC memo
		Repeat SST checklist training	* Training Report
3	Item 7-ID2-FLG-01 appears on the RSC checklist but is not labeled in the field. The item is on a chamber that is out of the scope of the review	Revise beamline labeling to include item #7-ID2-FLG-01	* CCC
		Complete the the process to approve the new checklist: * Review with RSC subcommittee. * Memo from RSC to Mechanical Engineering recommending approval of the new list. * Mechanical Engineering approval of the new checklist.	* CCC * RSC memo
		Repeat SST checklist training	* Training Report

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4	Leaded glass was found that is not on the Radiation Safety Component checklist but should appear because these are RSC components. Field inspection suggests there may be more leaded glass items that have not been identified.	Inspect all of SST to find any Leaded glass windows that were missed on the SST Configuration Control Checklist. Issue memo to document the inspection and findings.	* Inspection email
		Revise the SST Configuration Control Checklist to include the leaded glass window discovered during the review that was not on the checklist.	* CCC
		Complete the the process to approve the new checklist: * Review with RSC subcommittee. * Memo from RSC to Mechanical Engineering recommending approval of the new list. * Mechanical Engineering approval of the new checklist.	* CCC * RSC memo
		Repeat SST checklist training	* Training Report
5	Baffle slits DM6 (FS12) for the SST-1 branch and DM3 (FS8) in the transfer section are not included as potential scattering sources in the radiation survey plan.	Revise SST Radiation Survey Plan to include DM3 and DM6 as scatter points.	Radiation Survey Procedure
6	7-ID1-VWPT-04 cannot be inspected from the floor. A ladder or mirror would be required.	Assure that item 7-ID-VWPT-04 on the SST Config Cntrl checklist can be visually inspected.	Mirror photo
7	There is an open ATS item (ATS 8115.15.1) to Analyze the Survey Results to Confirm Clearances on the M Branch White-Beam Stop.	Close ATS 8115.15.1	* Closed ATS action

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8	7-ID Beamlines SST-1 and SST-2 determined that one of the RSC components (an aperture) was 0.6 mm lower than as shown in the drawing used to determine Ray-Tracings and Shielding requirements. The disposition of this discrepancy must be formally resolved and documented. [Self-Identified Pre-Start]	Generate a Discrepancy Report to address the SST misaligned, downstream, uncooled aperture and to address the secondary Brehmstrahlung shielding size discrepancy.	* Closed DR
		Revise ray tracing to reflect as-built configuration. <i>* Traces revised to show the true aperture position and limited M2 angle motion</i> <i>* Brehmsstrahlung colimator position discrepancy discovered</i>	* Ray Trace
		Complete the the process to approve the new Ray Traces: * Review with RSC subcommittee. * Memo from RSC to the Photon Division Director recommending approval of the new traces. * Photon Division Director approval of the new checklist.	* Ray Trace
		Revise scatter and shielding analysis to include considertion for the M2 mirror angle limits. (Tech Note) <i>* Include Brehmsstrahlung colomator position discrepancy</i> <i>* Determine 125 mA storage ring current limit</i>	* Tech Note
		Install a hard stop to limit the M2 mirror motion.	* Analysis memorandum
		Revise radiation safety component checklist and beamline labeling and photographs to include the White Beam Stop on the PGM.	* CCC
		Complete the the process to approve the new checklist: * Review with RSC subcommittee. * Memo from RSC to Mechanical Engineering recommending approval of the new list. * Mechanical Engineering approval of the new checklist.	* CCC * RSC memo
		Repeat SST checklist training	* Training Report

	Finding	Action(s)	Evidence
9	<p>Several travelers had not been completed prior to the IRR review. [Self-Identified Pre-Start].</p> <ul style="list-style-type: none"> · Photon Delivery System, · Secondary Beam Shielding 1 · Secondary Beam Shielding 2 · Secondary Beam Shielding 3 · L Branch Shielding pipe · M Branch Shielding pipe · Vacuum Switches · End Station Equipment (HAXPES) · End Station Equipment (NEXAFS) · SST Beamline Commissioning Readiness 	Close the listed travelers	Travelers

Final status

<p>Ready to authorize the start of commissioning with storage ring current limit of 125 mA (Limited Operation)</p>
<p>Pre-start finding: Radiation risk analysis indicates that SST must operate with a storage ring current limit of 125 mA. Further analysis is needed for the IRR Review Team to declare readiness for operation at full storage ring current (500 mA)</p>