

#	Priority	Description	Holding this review?	Punch-list	Assigned or Action	Installation Subset	Asignee	Due	Notes
1	H	Visual inspection of view-ports in-situ was not complete refer to bug list. Bug 761 https://services.ligo-wa.caltech.edu/integrationissues/show_bug.cgi?id=761 . View-ports are also not in ICS. This should be completed as part of inventory.	No	Yes	Project	All Chambers	Oram	1-Sep-14	need to close GV? Revisit protocols; if simpler, do earlier
2	M	Phase 3 testing on Op Lev was not complete.	No	Yes	Project	All Relevant Chambers	O'reilly	1-Aug-14	need written test plan
3	H	The ESD system is still undergoing installation and should not be evaluated at this time. That said, there are short circuits in the cabling-connectors. Determine approach to outstanding integration issues and characterize system as-is. Covered by 907 for short to shield; for charging investigation, to be done at LHO	No	Yes	Project	BSC4, BSC5 (BSC1 & BSC3)	O'Reilly, Landry	1-Jul	need a triage plan to determine threshold to intervention.
4	M	There are many references to G1001032. It is not clear whether this document will be brought to completion and maintained at both sites. So, it might be worthwhile before the systems review to either finish it at both sites, or omit it from LLO documentation. In either case, a blanket reference to it is less helpful than would be a pointer to the particular racks referred to in the particular review document. Choose uniform approach.	No	Yes	Project	General Note	Coyne	15-Jun-14	
5	L	Bug 20. No ESD on ITM's. Refer to LIGO-L1200291-v5 for Dennis Coyne's comments from 4/23/2014: The aLIGO project may decide to implement the change/correction for the L1 ITMy CP in order to make the ITMy ESD operational. However it does not currently appear to be necessary for completion of the project. This deviation from intended design/implementation shall be noted in the acceptance documentation so that we don't forget the discrepancy. However for the time being no correction for the L1 CPy will be pursued	No	Yes	Ops	LBSC1	Resolved/closed		
6	L	We also note that the cable to connect the ESD to ITMY is not in place. I tried to find the relevant log entry. But I believe that we changed out the feedthrough for a blank because the feedthrough was leaking. I need to add a note to the LBSC1 issue tracker, but want to find some log entry first.	No	Yes	Ops	LBSC1	Resolved/closed (see #5)		
7	M	Bug 615 "Unresponsive GS13 (V2) on ITMY (BSC1)"	No	Yes	Ops (unless opportunity arises). Joe G notes this is a concerning item!!!	LBSC1	Bug		
8	M	Note that this ICS entry is screwed up. It has LHAM1, LHAM3, LHAM5, LHAM6, LBSC1 and LBSC3 chamber assemblies all as indented under BSC-ISI Unit 1, which in turn is under LBSC2 chamber. The LBSC1 chamber assembly is missing the TCS optics. Use the serial number tracking memo M1000051 as a guide for deciding what is essential.	No	Yes	Project	LBSC1	O'Reilly	1-Aug-14	
9	H	E1300847-v7 is missing reference to a BS Optical Lever testing report	No	Yes	Project. Op Lev Report - This is on Op Lev Punch-list (Eric G running)	LBSC2	Gustafson	15-Jun-14	
10	M	There are some issues with the ICS entry for D0900428 for LBSC2. Some TCS and SLC records have been added but do not appear. Still need to add viewports, Oplev periscope and perhaps misc. other items to the ICS records.	No	Yes	Project. Note that this could be done now if person could be identified.	LBSC2	Romie	1-Jul-14	Ref. Coyne and Flanagan document, follow through
11	M	Baffling of the BS. Bug 505. Currently re-designing on Ops. Plan to install at next opportunity.	No	Yes	Ops (unless opportunity arises)	LBSC2	Gustafson		Landry: high priority
12	M	Note that this ICS entry is screwed up. It has LHAM1, LHAM3, LHAM5, LHAM6, LBSC1 and LBSC3 chamber assemblies all as indented under BSC-ISI Unit 1, which in turn is under LBSC2 chamber. The LBSC1 chamber assembly is missing the TCS optics. Use the serial number tracking memo M1000051 as a guide for deciding what is essential.	No	Yes	Project	LBSC3	Gustafson	1-Aug-14	
13	H	Bug #738. SEI Cable. Plan to fix at next opportunity.	No	Yes	Performed at next opportunity	LBSC4	Bug		
14	H	Bug 856. ESD short in vacuum (or in the feedthrough)	No	Yes	copy from above	LBSC4	Closed		
15	H	IR QPD failure on the TMS; establish the status, file bug if needed	No	Yes	Project	LBSC4	Frolov	15-Jun-14	don't know if in/out vac
16	H	a stuck pico-motor; bugs #887 and #848	No	Yes	Project	LBSC4	Bug		
17	H	Bug #80. Possibility of damage to ESD pattern on ERMs and CPs due to arcing. An interlock system based on vacuum pressure is installed and working at LHO. The LLO vacuum pressure sensors leak. In addition the LLO vacuum engineer has concerns about the chosen pressure gauges, so an alternate sensor is being sought. Modifications to the electronics may be required.	No	Yes	Project	LBSC4 and LBSC5	Bug		
18	H	Bug 878. ESD short in vacuum (or in the feedthrough) (similar to bug 856 for LBSC4, but a different pin)	No	Yes	Project	LBSC5	Bug		
19	M	ICS Record is lacking.	No	Yes	Project	LHAM1	Romie	1-Jul-14	
20	H	LHAM1 HEPI has not yet been commissioned.	No	Yes	Project	LHAM1	Aston	1-Jul-14	
21	L	HAM1 installation & alignment documents missing. Write HAM1 INS doc and cite E1300857, aLIGO ISC Custom Optics Requirements" within.	No	Yes	Project	LHAM1	O'reilly	1-Jul-13	
22	M	LHAM2: The two IO Tables, IOT2L and IOT2R, are supposed to be defined in: D0902284-v11, IO Table Layouts for IOT2L and IOT2R ("current default layouts", i.e. initial layouts), but only the layout for IOT2L is provided in the DCC; The initial layout for IOT2R is missing. In addition, the final, as-built layouts for the two IO Tables are to be provided in D1300356, As Built Layouts for ALIGO L1 IOT2L and IOT2R D1300357, As Built Layouts for ALIGO H1 IOT2L and IOT2R which implies that the layouts will be different for the two IFOs. They should be the same, with small dimensional differences included as notes on the same common drawing. In addition, both of these drawings are missing in the DCC.	No	Yes	Project	LHAM2	Gustafson	15-Jul-14	Generalize to the need to get all information from UF. Eddie Sanchez to help
23	M	Two S# documents have been filed with the same rack designation (L1-SUS-R1): S1200749 and S1200523. One must be incorrect. Resolve the discrepancy.	No	Yes	Project	LHAM2	Adams	15-Jun-14	
24	M	The DCC entry for S1200744 for rack L1-SEI-C2 is empty.	No	Yes	Project	LHAM2	Adams	1-Jul-14	
25	H	ISS PD Array. Currently re-designing on Ops. Plan to install at next opportunity. An ECR (and bug) will be issued very soon. Integrate into planning	No	Yes	Performed at next opportunity	LHAM2	O'reilly		
26	H	Testing-PSL ISS outer loop PD array test plan must be developed and then exercised for both LHO and LLO	No	Yes	Project	LHAM2	Savage	23-Jun-14	
27	M	Fix ICS entry which is screwed up. It has LHAM1, LHAM3, LHAM5, LHAM6, LBSC1 and LBSC3 chamber assemblies all as indented under BSC-ISI Unit 1, which in turn is under LBSC2 chamber. The LHAM5 chamber assembly only has the SR3, SRM and cable information. Use the serial number tracking memo M1000051 as a guide for deciding what is essential.	No	Yes	Project	LHAM5	O'reilly	1-Aug-14	
28	L	Bug #175. SR3 magnet off optic. Won't fix now.	No	Yes	Ops	LHAM5	Bug		
29	L	Bug #82. The OFI unit in LHAM5 is not in accordance with the final design (it has a light-weighted bench and lower structural resonances). We do not plan to swap out to the final design unless an serendipitous opportunity arises, or we find that the resonances are a problem. [N.B.: Bug 82 is missing from LHAM5 report.]	No	Yes	Performed at next opportunity, if conclude needed	LHAM5	Bug		
30	L	Bug 214 may also apply here. (see comment below in LHAM6)	No	Yes	Project	LHAM5	Bug		
31	L	ICS Record is lacking for HAM6, in particular for ISC	No	Yes	Project	LHAM6	C. Guido	1-Aug-14	
32	H	LHAM6 HEPI has not yet been commissioned.	No	Yes	Project	LHAM6	Romie	15-Aug-14	
33	L	-only ISI installation document/HA given; please note explicitly there is no installation procedure written for HAM6 optical components like the OMC. For such a critical part, we must add to the punchlist for India the writing of a procedure (low priority). Refer to E1300857, aLIGO ISC Custom Optics Requirements" within. Refine LHO installation document to a suitable level and standard format.	No	Yes	Project	LHAM6	Gushwa	1-Jul-14	
34	L	As-built alignment procedure: was there an exhaustive search of the aLOG for alignment aLOGs? This might be a particularly useful aLOG to record as there is no baseline alignment procedure in existence. Generate an alignment procedure for HAM6	No	Yes	Project	LHAM6	Fritschel	10-Jul-14	
35	L	Bug 214. The beam was missed OM1 in LHAM6 using the nominal drawing locations. The position of OM1 was changed to make the system work. The drawing discrepancy is not yet understood.	No	Yes	Ops	LHAM6	Bug		
36	M	Missing rack S-number documents and drawings. Specifically: S1202977 and D1201118 for L1-PSL-C1 S1202978 and D1201120 for L1-PSL-R1 S1202979 and D1201121 for L1-PSL-R2	No	Yes	Project	PSL	Kinzel	1-Jul-14	
37	M	Bug 41 Environmental testing/characterization (temperature, humidity, particulate levels, etc.) for the LAE must be documented	No	Yes	Project	PSL	Bug		
38	M	1) We need a hierarchical list of aLIGO-provided VE modifications, for the components that were actually installed at LLO, listing the makes/models, installation location, drawings, serial number (if applicable), and any test results. Links to the aLOG are OK, but they need to be described and to refer to specific entries. Document as needed.	No	Yes	Project (gather while chance exists)	Ops	O'reilly		
39		Gather test information on all gas-containing ISC components at LLO	No	Yes	Project (gather review documentation and post)	VE	Torrie	1-Jul-14	
40	H	Brian, Calum, Dennis to update installation documentation with the notes found by the reviewers (these notes which are not part of the punch-list can be found in the additional tabs of this excel sheet.)	No	Yes	Project	All Chambers	O'Reilly	1-Aug-14	
41	H	Clean up and resolve balance of TCS activities; complete stand-alone testing in feasible measure.	No	Yes	Project	TCS (LHAM4, LBSC1, LBSC3, LBSC4, LBSC5)	Brooks	1-Sep-14	