Status of SUS Individual Acceptance Reports Norna A Robertson Calum I Torrie 6th June 2014

T1400181-v16

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13 140-H1 85	15	yes yes yes	1 1 1	and or other information from fiber, ears, optics etc 2) No electroin crack data presented in a traditional sense. However, if one goes to \$1202953 (as below) the content of the rack are the related document. Included for completeness and to spell out technique used. 3) Attach link to alog for violin mode measurements. Calibrated OSEM sensor ASDs Page 12 of 1st document in alog entity 7723, we see excess motion with control loops on. It's difficult for the casual observer to understand why, arnaud can retake data after vent (maybe weeks) 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (MAP). Term 2) has now been addressed, rack drawings are updated. No Punch-list litems. Note Phase 2b testing only. Beyonchase 2b refer to chamber acceptance.	and info on total mass added to ICS. Item 3) DONE S.Aston - 04/07/2014 1) Optics assembly drawing has been updiated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is hernharber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
13 LHO-H1 BS	15	yes yes yes	1 1 1	and or other information from fiber, ears, optics etc 2) No electroin crack data presented in a traditional sense. However, if one goes to \$1202953 (as below) the content of the rack are the related document. Included for completeness and to spell out technique used. 3) Attach link to alog for violin mode measurements. Calibrated OSEM sensor ASDs Page 12 of 1st document in alog entity 7723, we see excess motion with control loops on. It's difficult for the casual observer to understand why, arnaud can retake data after vent (maybe weeks) 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (MAP). Term 2) has now been addressed, rack drawings are updated. No Punch-list litems. Note Phase 2b testing only. Beyonchase 2b refer to chamber acceptance.	and info on total mass added to ICS. Item 3) DONE S.Aston - 04/07/2014 1) Optics assembly drawing has been updiated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is hernharber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
13 LHO-H1 BS	15	yes yes yes	1 1 1	2) No electronic rack data presented in a traditional sense. However, if one goes to SIZO2953 (as below) the content of the rack are the related document. Included for completeness and to spell out technique used. Included in punch-list to confirm this is good. 3) Attach linkt oalog with sensor ASDS Page 12 of 1st document in alog entry 7723, we see excess motion with control loops on. It's difficult for the casual observer to loops on. It's difficult for the casual observer to understand why. Arnaud can retake data after vent (maybe weeks). 3) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (IAM) - Item 2) has now been addressed, rack drawings are updated. No Punch-list Items. Note Phase 2b testing only. Beyong hase 2b refer to chamber acceptance.	and info on total mass added to ICS. Item 3) DONE S.Aston - 04/07/2014 1) Optics assembly drawing has been updiated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is hernharber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
13 140-H1 85	15	yes yes yes	1 1 1	content of the rack are the related document. Included for completeness and to spell out technique used. Included in punch-list to confirm this is good. 3) Attach link to alog for violni mode measurements. Calibrated OSEM sensor ASDS Page 12 of 1st document in alog entry 7723, we see excess motion with control loops on. It's difficult for the casual observer to understand why. Arnaud can retake data after vent (maybe weeks). 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreader to ICS entry. Note added 16th April 2014 (IMA)? The control of t	and info on total mass added to ICS. Item 3) DONE S.Aston - 04/07/2014 1) Optics assembly drawing has been updiated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is hernharber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
13 LHO-H1 BS	15	yes yes yes	1 1 1	Included in punch-list to confirm this is good. 3) Attach link to alog for violin mode measurements. Calibrated OSEM sensor ASDs Page 12 of 1st document in alog entry 7723, we see excess motion with control loops on. It's difficult for the casual observer to understand why. Arnaud can retake data after vent (maybe weeks). 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (IAM) - Item 2) has now been addressed, rack drawings are updated. No Punch-list Items. Note Phase 2b testing only. Beyong hase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	and info on total mass added to ICS. Item 3) DONE S.Aston - 04/07/2014 1) Optics assembly drawing has been updiated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is hernharber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
13 LHO-H1 BS	15	yes yes yes	1 1 1	Calibrated OSEM sensor ASDs Page 12 of 1st document in alog entry 7723, we see excess motion with control loops on. It's difficult for the casual observer to understand why, Arnaud can retake data after vent (maybe weeks) 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note addressed, rack drawings are updated. No Punch-list Items. Note Phase 2b testing only. Beyong hase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	Optics assembly drawing has been updated as per DCN E 1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is been chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO NO	Follow up needed on excess motion seen.	Arnaud Pele	31-Jul-14		
14 LHO - 3rd IFO BS	ss yes 25 yes 25 yes 25 yes 26 yes	yes yes yes	1 1 1	loops on. It's difficult for the casual observer to understand why. Arnaud can retake data after vent (maybe weeks) 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (NAR) – item 2) has now been addressed, rack drawings are updated. No Punch-list Items. Note Phase 2b testing only. Beyong phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	updated as per DCN E1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO	motion seen.	Arnaud Pele	31-Jul-14		
14 LHO - 3rd IFO BS	ss yes 25 yes 25 yes 25 yes 26 yes	yes yes yes	1 1 1	understand why. Arnaud can retake data after vent (maybe weeks) 1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (NAP). Tiem 2) has now been addressed, rack drawings are updated. No Punch-list litems. Note Phase 2b testing only. Beyong hase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	updated as per DCN E1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO	motion seen.	Arnaud Pele	31-Jul-14		
14 LHO - 3rd IFO BS	ss yes 25 yes 25 yes 25 yes 26 yes	yes yes yes	1 1 1	1) Transfer function data noisy. This is due to result performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry, Note added 16th April 2014 (AMP). Here 2) has now been addressed, rack drawings are updated. No Punch-list litems. Note Phase 2b testing only. Beyong hase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	updated as per DCN E1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO NO		Alloud Fele	3170114		
16 LHO-H1 HLTS H1 PR3 E1300844 yes 17 LHO-H1 HLTS H1 SR3 E1400161 yes 18 LHO-3rd IFO HLTS 3rd IFO PR3 E1400159 yes 19 LHO-3rd IFO HLTS 3rd IFO SR3 E1400160 yes 20 LLO-L1 HLTS L1 PR3 E1300836 yes 21 LLO-L1 HLTS L1 SR3 E1400115 yes 22 LHO-H1 HSTS H1 MC1 E1400118 yes 23 LHO-H1 HSTS H1 MC2 E1400119 yes 24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PRM E1400121 yes 27 LHO-H1 HSTS H1 PRM E1400121 yes 28 LHO-H1 HSTS H1 SRM E1400123 yes 29 LHO-H1 HSTS H1 SRM E1400123 yes 29 LHO-H1 HSTS H1 SRM E1400124 yes 29 LHO-H1 HSTS H1 SRM E1400124 yes 29 LHO-H1 HSTS H1 SRM E1400125 yes 21 LHO-H1 HSTS H1 SRM E1400125 yes 21 LHO-H1 HSTS H1 SRM E1400125 yes 22 LHO-H1 HSTS H1 SRM E1400125 yes	ss yes ss yes	yes yes yes yes yes	1 1	performed on free standing stand. Accepted but noted. No Action. 1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excel spreadsheet to ICS entry, Note added 16th April 2014 (RAP) : Here 2) has now been addressed, rack drawings are updated. No Punch-list litems, Note Phase 2b testing only, Beyonc phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	updated as per DCN E1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.		3) will be added to chamber			YES	
16 LHO-H1 HLTS H1 PR3 E1300844 yes 17 LHO-H1 HLTS H1 SR3 E1400161 yes 18 LHO-3rd IFO HLTS 3rd IFO PR3 E1400159 yes 19 LHO-3rd IFO HLTS 3rd IFO SR3 E1400160 yes 20 LLO-L1 HLTS L1 PR3 E1300836 yes 21 LLO-L1 HLTS L1 SR3 E1400115 yes 22 LHO-H1 HSTS H1 MC1 E1400118 yes 23 LHO-H1 HSTS H1 MC2 E1400119 yes 24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PRM E1400121 yes 27 LHO-H1 HSTS H1 PRM E1400121 yes 28 LHO-H1 HSTS H1 PRM E1400121 yes 29 LHO-H1 HSTS H1 SRM E1400123 yes 29 LHO-H1 HSTS H1 SRM E1400124 yes 29 LHO-H1 HSTS H1 SRM E1400124 yes 29 LHO-H1 HSTS H1 SRM E1400125 yes 21 LHO-H1 HSTS H1 SRM E1400125 yes 21 LHO-H1 HSTS H1 SRM E1400125 yes 22 LHO-H1 HSTS H1 SRM E1400125 yes	ss yes ss yes	yes yes yes yes yes	1 1	1) SUS TO UPDATE OPTIC ASSEMBLY DWG. 2) RACK DWG (See below) 3) M3 to M3 transfer function. 4. Check and add excet spreadsheet to ICS entry. Note added 16th April 2014 (RAP) - Item 2) has now been addressed, rack drawings are updated. No Punch-list liems. Note Phase 2b testing only. Beyonc phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	updated as per DCN E1300890. 2) has now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.		3) will be added to chamber			YES	
17 LHO-H1		yes yes yes yes	1	DWG [See below] 3) M3 to M3 transfer function. 4. Check and add sexel spreadsheet to ICS entry. Note added 16th April 2014 (NAR) – Item 2) has now been addressed, rack drawings are updated. No Purch-list Items. Note	now been addressed as noted in previous column. 3) - this has been passed to install acceptance since it is inchamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO	3) will be added to chamber				·
17 LHO-H1		yes yes yes yes	1	DWG [See below] 3) M3 to M3 transfer function. 4. Check and add sexel spreadsheet to ICS entry. Note added 16th April 2014 (NAR) – Item 2) has now been addressed, rack drawings are updated. No Purch-list Items. Note	passed to install acceptance since it is in- chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO	will be added to chamber				
17 LHO-H1		yes yes yes yes	1	Check and add excel spreadsheet to ICS entry. Note added 16th April 2014 (NAR) - item 2) has now been addressed, rack drawings are updated. No Punch-list items. Note Phase 2b testing only. Beyond phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	chamber measurement. 4) has been done - Excel spreadsheet attached to ICS record.	NO	will be added to chamber				<mark>4</mark>
17 LHO-H1		yes yes yes yes	1	addressed, rack drawings are updated. No Punch-list items. Note Phase 2b testing only. Beyond phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an	ICS record.	NO	will be added to chamber				·
17 LHO-H1		yes yes yes	1	No Punch-list items. Note Phase 2b testing only. Beyond phase 2b refer to chamber acceptance. 1) Note transfer function taken on non-ideal table. So an		NU	acceptance, otherwise closed.			YES	<u> </u>
18 LHO - 3rd IFO HLTS 3rd IFO PR3 E1400159 yes 19 LHO - 3rd IFO HLTS 3rd IFO SR3 E1400160 yes 20 LLO-L1 HLTS L1 PR3 E1300836 yes 21 LLO-L1 HLTS L1 SR3 E1400115 yes 22 LHO-H1 HSTS H1 MC1 E1400118 yes 23 LHO-H1 HSTS H1 MC2 E1400119 yes 24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PRM E1400121 yes 27 LHO-H1 HSTS H1 PRM E1400121 yes 28 LHO-H1 HSTS H1 PRM E1400122 yes 29 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SRM E1400124 yes 29 LHO-H1 HSTS H1 SRM E1400124 yes 20 LHO-H1 HSTS H1 SRM E1400125 yes 31 LHO-3rd IFO HSTS 3rd IFO MC1 E1300514 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes		yes yes	1	1) Note transfer function taken on non-ideal table. So are	1	NO	Item will be added to chamber acceptance			YES	<u></u>
19 LHO - 3rd FO HLTS 3rd FO SR3 E1400160 yes		yes yes yes	1 1		2						
19 LHO - 3rd IFO HLTS 3rd IFO SR3 E1400160 yes		yes yes	1	noisy. Noted only. No action. 2) Y YAW has cross coupling from long into yaw. It goes away under						WEE	1
20 LIO-L1 HLTS L1 PR3 E1300836 yes	yes yes	yes		damping. Noted. No Action.		NO NO				YES YES	
21 LIO-L1 HLTS LLSR3 EL400115 yes 22 LHO-H1 HSTS H1 MC1 E1400118 yes 23 LHO-H1 HSTS H1 MC2 E1400119 yes 24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PRP E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SRP E1400124 yes 29 LHO-H1 HSTS H1 SRP E1400124 yes 29 LHO-H1 HSTS H1 SRP E1400124 yes 30 LHO-3rd IFO HSTS 3rd IFO MC1 E1400125 yes 31 LHO-3rd IFO HSTS 3rd IFO MC1 E1400125 yes	is yes	yes			 Optics assembly drawing has been updated as per DCN E1300890, 2) Mass 						
21 U.O-U.1 H.TS U.I.SR3 E1400115 yes	yes yes	yes		1) SUS TO UPDATE PR3 OPTIC ASSEMBLY DWG. 2) SUS to add mass information to ICS i.e. EXCEL spreadsheet with				1) Janeen Romie (Matt			
22 HO-H1			1	build numbers .	ICS entry	NO	2) Add excel sheet to ICS	Heintze)	31-Jul-14		
22 HO-H1											733: L1 SR3 (HLTS) pitch
22 HO-H1				Need excel spreadsheet with input data from build.							to vertical cross coupling, 175: LHAM5 - SR3 magne
22 HO-H1 HSTS H1 MC1 E1400118 yes				Refer Bug 733 for cross coupling issue highlighted below. No fix.			1) Add excel sheet to ICS. 2) and	1) Janeen			came off optic lower left position 831: L1
22 HO-H1 HSTS H1 MC1 E1400118 yes				 Magnet missing from SR3. Refer to bug 175. No fix planned for now. 	Info on total mass added to ICS.	NO	 will be tracked through bug list, otherwise closed. 		31-Jul-14		SR3 (HLTS) M2 UL channe high frequency turn-up
24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PR2 E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO -3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO -3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO -3rd IFO HSTS 3rd IFO MC3 E1400126 yes		yes	1	plantied for now.	1) IIIIO OII total mass added to ics.	NO	otherwise closed.	neintze)	31-301-14	YES	ingii irequency turii-up
24 LHO-H1 HSTS H1 MC3 E1400120 yes 25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PR2 E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO -3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO -3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO -3rd IFO HSTS 3rd IFO MC3 E1400126 yes											847: Excess cross-
25 LHO-H1 HSTS H1 PRM E1400121 yes 26 LHO-H1 HSTS H1 PR2 E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SRM E1400124 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO-3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO-3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO-3rd IFO HSTS 3rd IFO MC3 E1400125 yes	es yes	yes	1	 Pitch / roll mode coupled to vertical. Recommend add to bug-list and track. Refer to alog 6552. 	Added to bug list	NO	will be tracked through bug list.			YES	coupling in MC2 suspension under vacuum
26 LHO-H1 HSTS H1 PR2 E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes	es yes	yes	1	Refer to alog entry 11121 and note 60Hz peak is		NO				YES	<u></u>
26 LHO-H1 HSTS H1 PR2 E1400122 yes 27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes				dominant for top stage osems of PRM. Recommend check for grounding at next opportunity. Please add to							843: 60Hz spikes in OSEM spectra for H1 PRM
27 LHO-H1 HSTS H1 SRM E1400123 yes 28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes	es yes	yes	1	bug list.	Added to bug list	NO	1) will be tracked through bug list.			YES	suspension
28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes	es yes	yes	1	 Refer to alog entry 7568 and observe Vertical to pitch cross coupling @ 2.8Hz. No action required. 		NO				YES	
28 LHO-H1 HSTS H1 SR2 E1400124 yes 29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes				No punch list items. Note that data to phase 2b only. Final review of data post 2b in chamber acceptance			Item will be added to chamber				
29 LHO - 3rd IFO HSTS 3rd IFO MC1 E1300514 yes 30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes	es yes	yes	1	review. No punch list items. Completed to 2b. Phase 3a and 3b		NO	acceptance Item will be added to chamber			YES	<u> </u>
30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes	es yes	yes	1	review will be in chamber acceptance review. 1) Minor cross coupling from vertical to roll Alog entry		NO	acceptance			YES	
30 LHO - 3rd IFO HSTS 3rd IFO MC2 E1400125 yes 31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes				5684. Minor. Suppressed with damping. SUS note this							
31 LHO - 3rd IFO HSTS 3rd IFO MC3 E1400126 yes		yes	1	was the last built and these had least matched blades. Noted. No Action.		NO				YES	
		yes	1			NO NO				YES YES	
				Cross coupling observed of vertical into roll / pitch. Suppressed when damping on. Noted. Accepted. No							
32 LHO - 3rd IFO HSTS 3rd IFO PRM E1300497 yes 33 LHO - 3rd IFO HSTS 3rd IFO PR2 E1400127 yes		yes yes	1	Action.		NO NO				YES YES	
34 LHO - 3rd IFO HSTS 3rd IFO SRM E1400128 yes	es yes	yes yes	1 1			NO NO				YES YES	
				Punch list item - need excel spreadsheet with input data				Janeen Romie			
36 LLO-L1 HSTS L1 MC1 E1400109 yes		yes		from build. Punch list item - need excel spreadsheet with input data	Info on total mass added to ICS	NO	Add excel sheet to ICS	(Matt Heintze) Janeen Romie	31-Jul-14		
37 LLO-L1 HSTS L1 MC2 E1201042 yes	es yes	yes	1	from build. (Not noted on filecard) Punch list item - need excel spreadsheet with input data	Info on total mass added to ICS	NO	Add excel sheet to ICS	(Matt Heintze) Janeen Romie	31-Jul-14		
38 LLO-L1 HSTS L1 MC3 E1400113 yes	yes yes	yes	1	from build. Punch list item - need excel spreadsheet with input data	Info on total mass added to ICS	NO	Add excel sheet to ICS	(Matt Heintze) Janeen Romie	31-Jul-14		
39 LLO-L1 HSTS L1 PRM E1400114 yes	es yes	yes	1	from build.	Info on total mass added to ICS	NO	Add excel sheet to ICS	(Matt Heintze)	31-Jul-14		327: Odd High-frequency
				1) Need excel spreadsheet with input data from build							behavior from all SUS
				(not noted on filecard). 2) All three stages of transfer functions show a change of slope in magnitude, a "turn				1) Janeen			Top2Top Transfer Functions (note this
40 LLO-L1 HSTS L1 PR2 E1300513 yes	es yes	yes	1	up," at the highest frequencies shown, typically above 10 [Hz] - to be investigated	1) Info on total mass added to ICS	NO	 Add excel sheet to ICS 2) will be tracked through bug list. 	Romie (Matt Heintze)	31-Jul-14		applies to other suspensions too)
1	1			need excel spreadsheet with input data from build, 2) A cross-coupling of the 2nd roll mode at ~2.1 Hz into the							
				transverse DOF is present, see https://services.ligo-							1
				wa.caltech.edu/integrationissues/show_bug.cgi?id=90 - this does not warrant a rebuild, thus we should proceed							1
				with install, 3) Verifying that the sensor read-back issue i only at the M2 stage and that M2-M3 actuation is OK.	S						90: Excess cross-coupling
				See below. This needs a bug. 4) M2 to M3 and M3 to M3 yaw shows some cross coupling. See links below.				1) Janeen			in SRM at LLO 830: L1 SRM (HSTS) M2
41 LLO-L1 HSTS L1 SRM E1400116 yes	es yes	yes	1	Included for completeness. No action recommended or required.	Info on total mass added to ICS.	NO	 Add excel sheet to ICS. 2) and 3) will be tracked through bug list. 		31-Jul-14		stage sensor read-back issue
LIAMOTTO AG	yes	,	1	·	,			1) Janeen Romie (Matt	52 Jun-14		
42 LLO-L1 HSTS L1 SR2 E1400117 yes	es yes	yes	1	Punch list item - need excel spreadsheet with input data from build.	1) Info on total mass added to ICS.	NO	1) Add excel sheet to ICS	Heintze)	31-Jul-14		
				SYS - Item #II below Top level assembly. Action on							1
				Systems (Eddie Sanchez). 2. SUS - Item #II below ICS. Action on Suspensions to find out why cables, bosems	1) This was revision of D1300240 . This						1
	1			not present. (Janeen Romie).3. SUS - Item #II below ICS.	has been done (confirmed by NAR with		2) to be completed/checked: check	2) las			1
43 LHO-H1 OMCS H1 OMCS E1400055 yes		yes	1	Need to check that spreadsheet with as built masses, lengths etc has been attached to ICS. (Janeen Romie)	E Sanchez). 3) EXCEL spreadsheet is attached to the ICS.	NO	that info on BOSEMs and cables are in ICS	2) Janeen Romie	31-Jul-14		<u> </u>
	es yes			 It is noted that it is not always obviously clear (in test results) if X1 result is LHO or 3rd IFO. It is clear in text.]			
44 LHO - 3rd IFO OMCS 3rd IFO OMCS E1400158 yes	es yes	yes	1	No action.		NO				YES	
		1		SYS - Item #II below Top level assembly. Action on Systems (Eddie Sanchez). 2. SUS - Item #II below ICS.	This refers to revision of D1300077.						4
			1		This has been done (confirmed by NAR		1				1
				Action on Suspensions to find out why cables, bosems				1			
45 LLO-L1 OMCS L1 OMCS E1400034 yes				Action on Suspensions to find out why cables, bosems not present. (Janeen Romie).3. SUS - Item #II below ICS. Need to check that spreadsheet with as built masses, lengths etc has been attached to ICS. (Janeen Romie)	with E Sanchez). 2) BOSEMs are present in ICS. 3) EXCEL spreadsheet is attached to ICS	NO	2) to be checked that cables are in ICS	2) Janeen Romie	31-Jul-14		

total prepared 40 total approved 39

* In general punchlist items brought up in individual acceptance reviews but which are common to all of a certain type of suspension, or to all suspensions, are listed on next page.

** For 3rd IFO suspensions, the ICS assembly link on the filecards is to the generic assembly number for that type of suspension (HSTS etc) with uniquely identifying serial number, since a chamber assembly number does not exist. See E1400187 for list of the ICS identifier numbers.

	colour scheme					
	open punchlist					
red	item(s)					
green	punchlist closed (or no punchlist)					
	punchlist closed, with item or items being tracked					
yellow	elsewhere					

Status of General Acceptance Documentation

Item number													
(continued from									Items to Complete	Assignment of punchlist to aLIGO			Punchlist
previous page) Suspens	sion Type DCC	C #	Filecard prepared	Review Started	Approved		Punchlist Items	Update on Punchlist Status	before Acceptance?	Project or Ops and status	Assignee	Due Dates	Closed
						common*	specific						
								1) extensive work has been					
								done on Ops manual -			2) - Detector		
								currently being reviewed. Now			group (Janeen		
								reviewed (4 June 2014) by Rich			Romie, Vern		
						1) Ops Manual (Ops instuctions),	6) Finish/Check Quad top level	A. He is happy with it, Calum			Sandberg). 3) - To		
						2) Spares storage organisation, 3)	drawings including optics assemblies	agrees action closed. 4)			be assigned. 5) -		
						Shipping/transportation Plans, 4)	ALL updates will be covered via DCN	AOSEM doc T0900286 has now		1) and 4) closed. 2) and 3) are under	Rich Abbott. 6) -	2) End August 2014. 3)	
						AOSEM FDD document T0900286	E1300970 and signed off by SUS and	been updated to v3 (6th June		Operations. 5) and 6) are Project and	Janeen Romie	Open. 5) end August	
46 QUAD	E12	201038	yes	yes	yes	update, 5) LHO electronics doc tree	SYS.	2014).	NO	to be done/finished	(Eddie Sanchez).	2014. 6) end July 2014.	
							1) Finish/Check BSFM top level				1) Janeen Romie		
47 BSFM	E12	201039	yes	yes	yes	ditto	drawings		NO	1) underway	(Eddie Sanchez)	end July 2014	
							1) Finish/Check HLTS top level	1) Eddie Sanchez reports					
							drawings. 2) Install doc E1000045	optics assemblies done. See					
48 HLTS	E12	201041	yes	yes	yes	ditto	update as needed		NO	1) closed. 2) underway	2) - Janeen Romie	end July 2014	
							1) Finish/Check HSTS top level	1) Eddie Sanchez reports					
							drawings. 2) Install doc E0900334	optics assemblies done. See					
49 HSTS	E12	201040	yes	yes	yes	ditto	update as needed	DCN E1300890 2) updated on	NO	1) and 2) closed			YES
							1) Finish/Check OMCS top level						
							drawings. 2) Control range doc and						
							noise model doc to be done (Jeff K).	3) OMCS Assembly doc is now			1) Janeen Romie		
							3) assembly doc - pictures to be	updated including figures and			(Eddie Sanchez),	1) End July 2014, 2)	
50 OMCS	E12	201043	yes	yes	yes	ditto	added (Jeff B)	posted to DCC.	NO	1) underway, 2) to be done, 3) closed	2) Jeff Kissel.	end July 2014	

^{*} where an item has come up in one review but affects most or all types of suspensions, it is included under "common".