Advanced LIGO Engineering Change Request (ECR)

Auvanceu Li	SO LIIGIIIEEII	ng Chang	e Request (LCR)	
ECR Title: ECR:			DCC No: E1300402-v1	
Add missing ALS/REFL signals to real-time system Date: 5/8/2013				
Requester:	Impacted Subsys	tem(s):		
Daniel Sigg	ISC			
Description of Proposed Cha	nge(s):			
Proposed changes:				
 Add a 3rd ADC and anti-aliasing chassis to the LSC corner real-time system (D1100170, D1200666, T1100472, D1001427) Wire the REFLAIR_A_RF9 (I and Q) into the whitening chassis #20/cable 30 (D1100170, D1200666) Wire the REFL_A_RF9 (I and Q) into the whitening chassis #22/cable 31 (D1100170, D1200666) Wire ALS COMM_A_RF and DIFF_A_RF to LSC RF PD INTERFACE #13 (Re)wire LSC RF PD INTERFACE #13 to 3rd ADC chn 1 Wire Summing node board to 3rd ADC chn 2 (Re)wire cable 259 from generic interface #3 to Auxiliary Signals Concentrator 3 #93 PD DC IN Wire Auxiliary Signals Concentrator 3 #93 PD DC OUT to ADC0_1 (cable 259) Wire Auxiliary Signals Concentrator 3 #93 PD DC Mon 1 to Summing junction input 2 Fix wiring for summing node 				
Estimated Cost:				
3 ADC at no additional cost (fi 3 anti-aliasing chassis at no ad New wiring (\$3000)				
Schedule Impact Estimate:				
None.				
Nature of Change (check all Safety Correct Hardware Correct Documentation	that apply):	☐ Improve Hardw ☐ Improve/clarify ☑ Change Interfac ☐ Change Require	Documentation ce	
Importance: Desirable for ease of use, maint Desirable for improved perforr Essential for performance, relia Essential for function Essential for safety	nance, reliability		e/event:June 2013 e/event:HIFO_X SAP)	

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Impacted Documentation (list all dwgs, design Impacted Hardware (select all that apply): Repair/modify. List part & SNs: _____ reports, test reports, specifications, etc.): D1100170, D1200666, E1200408, T1100472, 🗌 Scrap & Replace. List part & SNs:_____ D1001427 🗌 Installed units? List IFO, part & SNs: _____ **Future units to be built Disposition (to be completed by Systems Engineering):**

CCB

TRB

Approved

Additional information required. Define:

[Requester re-submits with new information with the same DCC E-number for the ECR but the next version number.]

Concurrence by Project Management: (Acknowledged Electronically in DCC)

Project Systems Engineer: Dennis Coyne	Project Systems Scientist: Peter Fritschel

CIT/MIT	LIGO Laboratory	F1200011-v1 Form
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