Advanced LIGO Engineering Change Request (ECR)

	<u>/ Linginiceri</u>	ng onange nequest (Eon)		
ECR Title: ECR:		DCC No: E1200942-v1		
EtherCAT chassis End 2 changed		Date: 10/19/2012		
Requester:	Impacted Subsys	stem(s):		
Daniel Sigg	ISC			
Description of Proposed Change(<u>s</u>):			
Version 2 includes the following changes:				
 Remove legacy photodiodes (construction) Remove ASC demodulator concert Add up to 4 DC photodiode readb Change shutter interface to 24V loc Remove flippers and temperature Add HWS controls and TCS ring 	Requence of ECR E120 ntrator (consequence of acks (required by ECI ogic (fix incorrect inte readbacks (required b heater controls (required	00935) of ECR E1200935) R E1200938) orface) by ECR E1200930) red by ECR E1200930)		
Reason for Change(s):				
As part of the OAT close out severa controls interface.	al changes were made	to the hardware that require an update of the slow		
Estimated Cost:				
None. Only 2 chassis were initially produced to support the OAT. The changes are mostly cost neutral and the allocated money will be sufficient.				
Schedule Impact Estimate:				
None.				
Nature of Change (check all that Safety Correct Hardware Correct Documentation	apply):	 ☑ Improve Hardware ☑ Improve/clarify Documentation ☑ Change Interface ☑ Change Requirement 		
Importance: Desirable for ease of use, maintenance Desirable for improved performance Essential for performance, reliability Essential for function Essential for safety	ce, safety , reliability	Urgency: no urgency desirable by date/event: _Feb 2013 Essential by date/event: Immediately (ASAP)		
Impacted Hardware (select all tha	at apply):	Impacted Documentation (list all dwgs, design reports, test reports, specifications, etc.):		
□ Scrap & Replace. List part & SNs: D1100682 D1100670		D1100682 D1100683, D1101977, E1101029, D1100670		
☐ Installed units? List IFO, part & SNs	3:			

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Future units to be built

Disposition (to be completed by Systems Engineering):

TRB CCB

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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