Advanced LIGO Engineering Change Request (ECR)

ECR Title: ECR:		DCC No: E1200936-v1
Frequency Counter for P	LL error signa	Date: 9/17/2012
Requester:	Impacted Subsys	stem(s):
Daniel Sigg	ISC	
Description of Proposed Change (s):	
	_	. Since the timing system already has a frequency er in the PLL error signal. The design of the preamplifier
Reason for Change(s):		
roughly adjust the NPRO temperatu	are before trying to en	reference, we typically use a local spectrum analyzer to gage the PLL. To automate this process for day-by-day with a remote-readout frequency counter.
Estimated Cost: 8 units at a cost of	f \$1.5k each, total \$12	2k
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	, reliability	Urgency: no urgency desirable by date/event: _Feb 2013 Essential by date/event: Immediately (ASAP)
Impacted Hardware (select all that ☐ Repair/modify. List part & SNs:		Impacted Documentation (list all dwgs, design reports, test reports, specifications, etc.):
Scrap & Replace. List part & SNs:_		D1002803, D1001423, D1100670, E1200146
☐ Installed units? List IFO, part & SNs	s:	
☐ Future units to be built		

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Disposition (to be completed by Systems Engineering ☐ TRB ☐ CCB ☐ Additional information required. Define	g):			
Additional information required. Define:				
[Requester re-submits with new information with the same number.]	me DCC E-number for the ECR but the next version			
Concurrence by Project Management: (Acknowledge	ed Electronically in DCC)			
Project Systems Engineer: Dennis Coyne	Project Systems Scientist: Peter Fritschel			