Advanced LIGO Engineering Change Request (ECR)

ECR Title: Pcal Periscope Mirror Alignme	ent Pin DCC No: E1300038-v1	
	Date: 11 JAN 2013	
Requester: Craig Conley Impacted Subsy	stem(s): AOS	
Description of Proposed Change(s): Creation of P/N <u>D1300022</u> .		
Reason for Change(s): The D1200172 & D1200173 Mirror Mount Bases (used on the Pcal Periscope Structure) were intended to be fitted (press fit) with 3/16" diameter commercial dowel pins to slip-fit the respective Siskiyou mirror mounts for which the Bases are designed. This gives repeatable precision alignment to the mirror mounts in removal and replacement from and to the Periscope Structure. The bases were mistakenly designed and manufactured with press fit holes for 1/4" diameter dowel pins. D1300022 is a two diameter pin to be used in the Bases to correct this discrepancy.		
Estimated Cost: \$3,500		
Schedule Impact Estimate: 5 man hours		
Nature of Change (check all that apply): Safety Correct Hardware Correct Documentation	 ☑ Improve Hardware ☐ Improve/Clarify Documentation ☑ Change Interface ☐ Change Requirement 	
Importance: ☐ Desirable for ease of use, maintenance, safety ☐ Desirable for improved performance, reliability ☐ Essential for performance, reliability ☐ Essential for function ☐ Essential for safety	Urgency: No urgency Desirable by date/event: Essential by date/event: Immediately (ASAP)	
Impacted Hardware (select all that apply): ☐ Repair/Modify. List part & SNs:	Impacted Documentation (list all dwgs, design reports, test reports, specifications, etc.):	
Scrap & Replace. List part & SNs:	D1200172, D1200173	
☐ Installed units? List IFO, part & SNs:		
☐ Future units to be built		

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