STEREO CONFIGURATION CHANGE REQUEST

TITLE:						CLASS:			NUMBER:					
For	Office							I						
Use	Only							Ш	DATE:					
CONFIGURED ITEM:						ORIGINATOR:			PRIORITY:			TY:		
				Deulee de compositio	Name: Dav			e Curtis						
S1S Number:				Fxperiment: IMPACT		Organization: U.C. Berkele			ey 5008	V	Rou	itine		
Component Dart #:				Sorial #:		$ \begin{array}{c} 1 \text{ mone.} \\ 510-642-5998 \end{array} $					Urgent			
								IMDACTS:						
I I I PE OF REQUEST:				ORGANIZATION/INDIVIDUAL:				(If ves attach additional pages)						
Configuration														
	Deviation #							COST]:	Yes	\checkmark	No		
\checkmark	√ Waiver #													
	Other:							SCHE	DULE:	Yes	\checkmark	No		
REA	SONS FC	R CHA	NGE:	·				RETEST REQUIRED:			D:			
\checkmark	√ Improvement Test/Pa		ayload Failure	1	New Document:			No						
	Reliabilit	у	Specifi	cation Requirements	0	Other:								
 Use single-ended digital interfaces between the SEP Central and SIT, SEPT-E, and SEPT-NS. This violates the Project EMC requirements as called out in 7381-9030-, section 3.2.2.4. RATIONALE (Attach additional pages as required): Proposed interface saves significant power over differential interfaces. The interface meets the intent of the requirement by returning the bulk of the current through a dedicated return path, and limiting signal rise time (see attached schematic). To first order no current gets forced into the chassis by this interface. The series resistor on the driver, together the both the cable and terminating capacitance limit the signal rise time to the microsecond range. The signals have dedicated returns through which AC and DC currents will flow, minus some small fraction that may return via the 50 ohm resistor (at these frequencies the return impedance will look much smaller than the 50 ohms path). The capacitance on the receiver end is required to eliminate capacitive cross-talk between signals in the harness. 														
AFF FLIC √ REC	ECTED (C HT SYSTE Avionics Experimen Structures QUIRED A	Check all MS: nt s and Me APPRO	that apply) chanical VAL DAT	Electrical and Cables Software/Firmware Other: E:		GROUND SYST	TEMS:		Other:					
REG	UIRED JU	USTIFIC	CATION:											
											(Pa	age 1 of 2)		

STEREO CONFIGURATION CHANGE REQUEST

	TITLE:		CLASS:			NUMBER:				
For Office					Ι					
Use Only			Ш		Π	DATE:				
CONTRACT/AGREEMENT NUMBER EFFECTIVITY:										
STERE	O NAS5-97271 √	IMPACT S-13635Y	PLASTIC NAS5-0	NAS5-00132			SECCHI S-13631Y			
DOCUMENTS/DRAWINGS TO BE REVISED:										
Document	t/Drawing Number:	Document/Drawing Title:	Section(s) No.]	EO No.:	Date Completed:			
PROCESSING APPROVAL:										
ССВ										
	Out of Board									
	Emergency	Systems Engineer					Date			
CCB APP	ROVAL:									
CCB ACTIC	ON DATE:	CCB ACTION ITEMS/CONDITIONS	3:							
	Approved									
	Denied									
	Withdrawn									
	Hold									
CLOSEOUT	COMMENTS:		DATE C			F CLOSEOUT:				
			СМО							

(Page 2 of 2)

