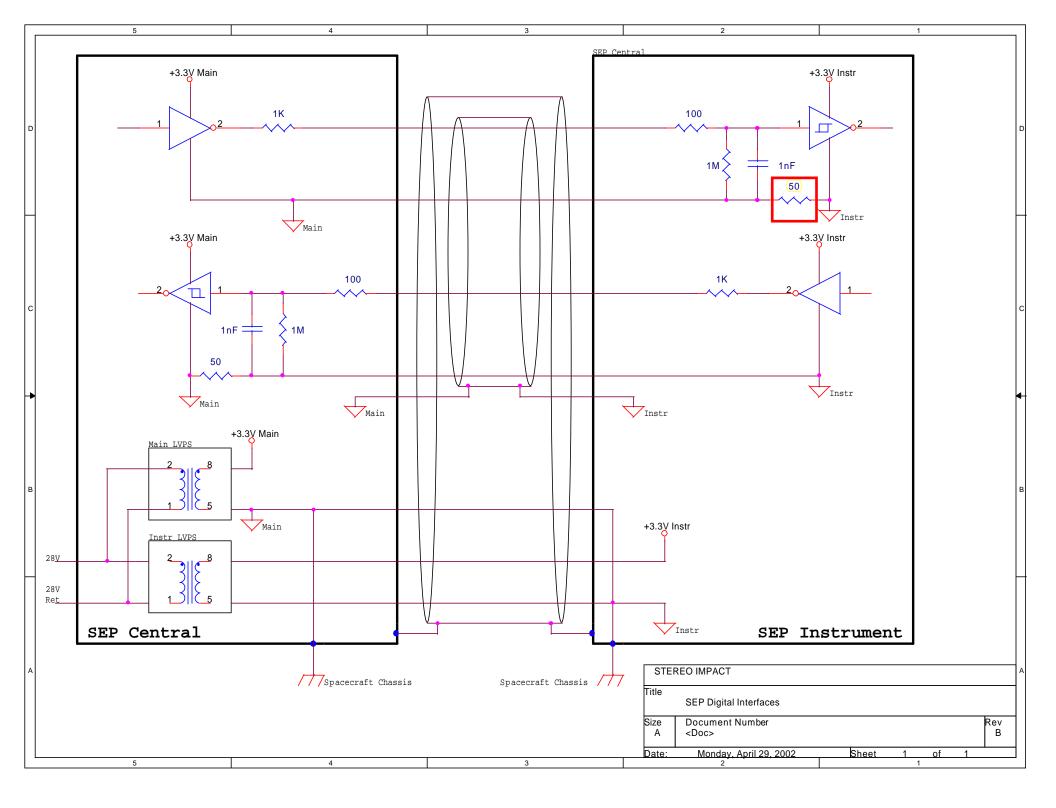
STEREO CONFIGURATION CHANGE REQUEST

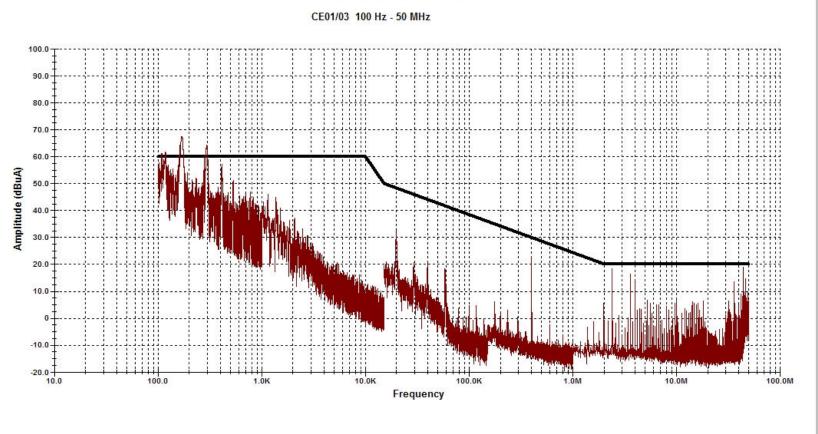
		TITLE	SEPT Sin	gle ended interface		CLASS:			NUMBE	R:			
	Office							Ι					
Use	Only							II	DATE:				
CONFIGURED ITEM:						ORIGINATOR: PRIORITY:							
						Name: Dave Curtis							
STS N	Number:			Payload: STEREC)	Organization: U.C. Berkeley				\checkmark	Rou	ıtine	
Component :				Experiment: IMPACT		Phone: 510-642-5998					Urgent		
Component Part #: Seri				Serial #:		Email: dwc@ssl.berkeley.edu					Em	ergency	
TYPE OF REQUEST:				RESPONSIBLE		IMPACTS:							
				ORGANIZATION/INDIVIDUAL:				(If yes attach additional pages)					
	Configuration									,			
	Deviation #		#					COST	:	Yes	\checkmark	No	
\checkmark	√ Waiver #												
Other:								SCHE	DULE:	Yes	\checkmark	No	
REA	SONS FO	DR CHA	ANGE:			RET			RETEST	ETEST REQUIRED:			
\checkmark	√ Improvement		Test/P	ayload Failure	1	New Document:	No						
	Reliabilit	÷		cation Requirements		Other:			Yes				
				additional pages as required		Control or d G	ו דיםיםי		CEDT NO	T. T. Linear	-1-4-	a tha	
Use single-ended digital interfaces between the SEP Central and SEPT-E, and SEPT-NS. This violates the Project EMC requirements as called out in 7381-9030-, section 3.2.2.4.													
r roject ENTC requirements as caned out in 7301-3030-, section 5.2.2.4.													
RATIONALE (Attach additional pages as required):													
The original design as shown in the attached schematic was quasi-differential in that the 50													
ohm resistor isolated the signal return from the instrument return. This was deemed													
accepttable (without waiver) by the EMC committee when it was first proprosed.													
	We recently discovered that in the SEPT units a jumper was left across the 50 ohm resistors in												
												ors in	
the receiver of the serial digital signal (the resistor on the right in the circuit drawing). Meanwhile all 4 flight SEPT units have completed environmental testing, and the FM1 u									its				
				MC tests. The resul									
				s attached, and sho									
	bonded	l to a n		nch top to simulate								vere	
	operati	ng).											
	To first	bia na	blom	and involve ensints		be 4 flight u	nite e	and a	.b.c.c.u.o	at voto d	b	: ala	
To fix this problem would involve opeining up the 4 flight units and subsequent retest which has significant cost and schedule implications. Based on the EMC test results we propse to fly													
the instruments as-is.													
DOCUMENTS/DRAWINGS AFFECTED (Document No./Title/Section) :													
AFFECTED (Check all that apply):													
FLIG	HT SYSTE	MS:				GROUND SYST	'EMS:						
1	Avionics			Electrical and Cables									
	Experime		chanical	Software/Firmware Other:					Othe				
Structures and Mechanical Other: Other: REQUIRED APPROVAL DATE:													
REQ	UIRED J	USTIFIC	CATION:						1				
											(Pa	ge 1 of 2)	

STEREO CONFIGURATION CHANGE REQUEST

	TITLE:		CLASS:	1	NUME	NUMBER:				
For Office				Ι						
Use Only					DATE:					
CONTRACT	AGREEMENT NUM	IBER EFFECTIVITY:								
STEREO	NAS5-97271 🗸	IMPACT S-13635Y	PLASTIC NAS5-00132		SECCHI S-13631Y					
DOCUMENTS/DRAWINGS TO BE REVISED:										
Document/I	Drawing Number:	Document/Drawing Title:	Section(s) No.		EO No.:					
PROCESSING APPROVAL:										
ССВ										
0	ut of Board									
Eı	mergency	Systems E			Date					
CCB APPROVAL:										
CCB ACTION		CCB ACTION ITEMS/CONDITIONS:								
A	pproved									
D	enied									
W	lithdrawn									
Н	lold									
CLOSEOUT CO	OMMENTS:			DATE (OF CLOSEC	CLOSEOUT:				
			СМО							

(Page 2 of 2)





EMC TEMPEST

MIL-STD 461C Modified - Common Mode