## STEREO CONFIGURATION CHANGE REQUEST

TITLE:						CLASS:			NUMBER:					
For Office								I						
Use Only								II	DAT	E:				
CONFIGURED ITEM:							ORIGINATO					PI	RIORI	TY:
CTC N						Name: Dave Curtis								
STS Number: Component :					,			Organization: U.C. Berkeley Phone: 510-642-5998			V	√ Routine Urgent		
					Serial #: Email: dwc@ssl.berkeley.edu				lu		- '			
Component Part #:				_	RESPONSIBLE				@ssl.berkeley.edu Emergency IMPACTS:					
TYPE OF REQUEST:					ORGANIZATION/INDIVIDUAL:				(If yes attach additional pages)					
	Configur	ation												
<b>√</b>	Deviation #								COST:			Yes	$\sqrt{}$	No
	Waiver #													
	Other:							SCHEDULE:			Yes	√	No	
REA	SONS FC	OR CHA	NGE:	<u> </u>						RETE	ST RE	QUIRI	ED:	<u> </u>
	_			ayloa	ıd Failure	New Document:			No					
	Reliabilit	у	Specifi	catior	n Requirements	√ (	Other: Yes				Yes			
PROPOSED CHANGE (Attach additional pages as required): The Mission Requirements Document (460-RQMT-001 Rev B, Section 4.7 F&G) requires that the SEP package measure ions, including protons, down to 30keV. The SEP package will not be able to meet this requirement for protons. It will measure protons down to only about 60keV.  RATIONALE (Attach additional pages as required):														
The SEPT part of the SEP suite measures the lower energy Protons., nominally from 20keV to 7MeV (The SIT instrument measures the higher mass species over a similar range). In order to suppress the instrument response to scattered light, a thin layer of Aluminum was deposited on the detectors. This was required because various booms, etc, impinged into the SEPT FOV, and was the subject of an IMPACT PDR RFA, #29. This aluminum layer makes the detectors relatively insensitive to light so that they can work with the expected level of glint, but it increases their low energy threshold by stopping low energy protons before they are measured. The electron measurements are not affected, nor are the higher mass measurements (made by SIT). The PLASTIC instrument can measure protons up to 80-100keV (though with less sensitivity than SEPT), and so the energy range is covered. At this time the flight detectors have been purchased by Keil with this Aluminum layer, and so even if we could find some other way to suppress scattered light, it would have a significant cost and schedule hit to change these detectors.														
DOG	CUMENT	S/DRA	WINGS A	FFE	CTED (Document )	Vo /Title	e/Section) ·							
DOCUMENTS/DRAWINGS AFFECTED (Document No./Title/Section):  460-RQMT-001 Rev B, Section 4.7 F&G														
AFFECTED (Check all that apply):														
FLIG	HT SYSTE	MS:					GROUND SYS	ГЕМS:						
	Avionics				Electrical and Cable	S								
√	Experimen				Software/Firmware									
	Structures				Other:						Other:			
			VAL DAT	E:										
REQUIRED JUSTIFICATION:														
													(P	age 1 of 2)

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For Office					I						
Use Only					П	DATE:	DATE:				
CONTRACT/AGREEMENT NUMBER EFFECTIVITY:											
STERE	O NAS	5-97271 √	IMPACT S-13635Y PLASTIC NAS5-001			SECCHI S-13631Y					
DOCUMENTS/DRAWINGS TO BE REVISED:											
Document/Drawing Number:			Document/Drawing Title:	Section(s) No.		EO No.:					
PROCESSING APPROVAL:											
ССВ											
	Out of Board										
	Emerger	псу	Systems E		Date						
CCB APP	CCB APPROVAL:										
CCB ACTION DATE: CCB ACTION ITEMS/CONDITIONS:											
	Approve	ed									
	Denied										
	Withdra	wn									
	Hold										
CLOSEOUT	ГСОММЕ	ENTS:	DATE C CMO			DATE OF CLOSEOUT:					
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