STEREO CONFIGURATION CHANGE REQUEST

TITLE:						CLASS:			NUMBER:					
For Office								I						
Use	Only							II	DATE					
CONFIGURED ITEM:						ORIGINATOR: PRIORITY					TY:			
						Name: Dave Curtis								
STS Number:				Payload: STEREO		Organization: U.C. Berke					$\sqrt{}$	Rou	ıtine	
Com	ponent :			Experiment: IMPACT		Phone: 510-642-5998					Urg	gent		
Component Part #:				Serial #:		Email:	dwc@ssl.berkeley.edu				Em	ergency		
TYP	E OF REG	QUEST:		RESPONSIBLE ORGANIZATION/INDIVIDUAL:				IMPACTS:						
			1					(If yes attach additional pages)						
	Configuration							COST:						
$\sqrt{}$	Deviation #										Yes	$\sqrt{}$	No	
Waiver #			#											
Other:								SCHEDULE:			Yes		No	
REA	SONS FO	OR CHA	NGE:					RETEST REQUIRED:						
	Improvement		Test/F	Payload Failure	New Document:	No								
	Reliabilit	y	Specifi	cation Requirements	√ (Other:			Y	Yes				
The STEREO Resource Allocations Document (460-RQMT-0034A Rev A, Section 5.1 and 5.2) The IMPACT power allocation is 15.2W operational, 6W non-operational. On top of this, according to section2.3 of the same document, we need at least a 10% margin at the time of CDR. Due to recent increases in operational and non-operational heater requirements, IMPACT no longer fits within these power allocations. The latest Current Best Estimates (CBE) are 15.34W operational, 12.9W survival. With a 10% margin we would need an allocation of 17.1W operational, 14.4W survival. RATIONALE (Attach additional pages as required): These power increases are driven by the SEP operational and non-op heaters, based on the latest thermal models. The non-op heater in particular is driven by the off-pointing case when all of SEP is in the shade. Ruling out that case the non-op heater requirement drops to 8.9W CBE. Another option to consider would be to thermally couple some or all of SEP to the spacecraft. A coupled analysis (SEP plus the spacecraft) would be required to ensure that no thermal limits are exceeded (we are concerned about the hot case), but it should decrease the heater power requirement.														
DOCUMENTS/DRAWINGS AFFECTED (Document No./Title/Section): 460-RQMT-0034A Rev A, Section 5.1 and 5.2														
AFFECTED (Check all that apply):														
FLIGHT SYSTEMS: GROUND SYSTEMS:														
Avionics Electrical and Cables														
√	Experime			Software/Firmware										
	Structures			Other:					0	ther:				
REQUIRED APPROVAL DATE:														
REQUIRED JUSTIFICATION:														
												(Pa	age 1 of 2)	

STEREO CONFIGURATION CHANGE REQUEST

		TITLE:		CLASS:	1 -	NUMB	NUMBER:			
For Office					I					
Use Only					П	DATE:				
CONTRACT/AGREEMENT NUMBER EFFECTIVITY:										
STERE	O NAS	5-97271 √	IMPACT S-13635Y PLASTIC NAS5-00132			SECCHI S-13631Y				
DOCUMENTS/DRAWINGS TO BE REVISED:										
Document/Drawing Number:			Document/Drawing Title: Section(s) No.			EO No.:	Date Completed:			
PROCESSING APPROVAL:										
ССВ										
	Out of Board									
	Emerger	псу	Systems Engineer			Date				
CCB APPROVAL:										
CCB ACTION DATE: CCB ACTION ITEMS/CONDITIONS:										
Approved										
	Denied									
	Withdra	wn								
	Hold									
CLOSEOUT	Г СОММЕ	ENTS:	DATE			E OF CLOSEOUT:				
				СМО						
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