

STEREO CONFIGURATION CHANGE REQUEST

For Office Use Only	TITLE:	CLASS:	NUMBER:					
		I II	DATE:					
CONFIGURED ITEM:		ORIGINATOR:		PRIORITY:				
STS Number:	Payload: STEREO	Name: Dave Curtis	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency					
Component :	Experiment: IMPACT	Organization: U.C. Berkeley						
Component Part #:	Serial #:	Phone: 510-642-5998						
		Email: dwc@ssl.berkeley.edu						
TYPE OF REQUEST:		RESPONSIBLE ORGANIZATION/INDIVIDUAL:		IMPACTS: (If yes attach additional pages)				
<input type="checkbox"/>	Configuration			COST:	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<input type="checkbox"/>	Deviation			#				
<input checked="" type="checkbox"/>	Waiver			#				
<input type="checkbox"/>	Other:							
REASONS FOR CHANGE:		RETEST REQUIRED:						
<input type="checkbox"/>	Improvement	<input type="checkbox"/>	Test/Payload Failure	<input type="checkbox"/>	No			
<input type="checkbox"/>	Reliability	<input checked="" type="checkbox"/>	Specification Requirements	<input type="checkbox"/>	Yes			
<input type="checkbox"/>		<input type="checkbox"/>	New Document:					
<input type="checkbox"/>		<input type="checkbox"/>	Other:					
PROPOSED CHANGE (Attach additional pages as required): <p style="color: blue;">The STEREO Environmental Requirements Document (7381-9003 rev B) specifies the thermal balance testing required on the IMPACT instrument suite in section 3.3.2 and in the test matrix in Appendix B. IMPACT proposes a different thermal balance plan than that indicated in this document; we plan to only thermal balance one unit (in one case the qualification model), and in one case at different levels of assembly than indicated in the Appendix B test matrix. We also propose to not perform thermal balance on the MAG sensor.</p>								
RATIONALE (Attach additional pages as required): <ol style="list-style-type: none"> 1. Thermal Balance is a design verification test rather than a workmanship test. The purpose of the test is to verify the thermal model. This can be done with a single thermal balance test of a representative model provided the models are sufficiently similar to each other in design and environment such that any differences can be easily modeled. Our thermal engineers are confident that they can get enough information from a single thermal balance to verify the thermal models. Typically this test will be performed on the first flight unit (Ahead), but in the case of the IMPACT boom, it was done on the qualification unit. 2. The test matrix calls for thermal balance testing to be done at the boom subassembly level (with instruments). In fact the qualification unit boom thermal balance test was done with instrument simulators. We propose to thermal balance test the first flight units of the SWEA/STE-D and STE-U separately. 3. We feel that the MAG sensor does not require a thermal balance test since it is identical to sensors that have previously flown many times, and its thermal model is well verified by test and flight experience. 								
DOCUMENTS/DRAWINGS AFFECTED (Document No./Title/Section) : 7381-9003 Appendix B.								
AFFECTED (Check all that apply):								
FLIGHT SYSTEMS:				GROUND SYSTEMS:				
<input type="checkbox"/>	Avionics	<input type="checkbox"/>	Electrical and Cables	<input type="checkbox"/>				
<input checked="" type="checkbox"/>	Experiment	<input type="checkbox"/>	Software/Firmware	<input type="checkbox"/>				
<input type="checkbox"/>	Structures and Mechanical	<input type="checkbox"/>	Other:	<input type="checkbox"/>	Other:			
REQUIRED APPROVAL DATE: _____								
REQUIRED JUSTIFICATION:								

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			I		DATE:	
			II			
CONTRACT/AGREEMENT NUMBER EFFECTIVITY:						
STEREO NAS5-97271		√	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:						
CCB						
Out of Board						
Emergency		Systems Engineer			Date	
CCB APPROVAL:						
CCB ACTION DATE:		CCB ACTION ITEMS/CONDITIONS:				
Approved Denied Withdrawn Hold						
CLOSEOUT COMMENTS:					DATE OF CLOSEOUT:	
					CMO	