

Problem/Failure Report THM_PFR_076

PFR-076 Title: Reversed Tantalum Capacitors on BEB					
Assembly: BEB S/N 013			SubAssembly:		
Component : CWR06 Tantalum Cap		Units Affected:		Units fixed:	
Originator: H Richard		x -		0 0 0 0 x 0	
Organization: UCB		Date: 8 July 2005			
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Failure Occurre	ed During (Check on	e √)			•
√ Functional test □	☐ Qualification test ☐ S/C	Integra	tion Launch operati	ons [☐ Other (Flight Assy)
Environment w	hen failure occurred	:			
√ Ambient	□ Vibration		□ Shock		☐ Acoustic
□ Thermal	□ Vacuum		□ Thermal-Vacuum		□ EMI/EMC
Problem Description					
functionality test was resumed. At this point, a failure occurred with the following symptoms: a.) The BEB Bias, Usher, Guard drivers' outputs could not be controlled through the programmable DACs. All outputs were constant at about 1V. b.) The housekeeping addresses could not be changed. Despite these failures, the digital supplies to the Actel were drawing nominal current and the Braid driver relays could be controlled via the Actel.					
Analyses Performed to Determine Cause					
as 500mA before the The cog. engineer the with the incorrect or	s discovered, current meas e cognizant engineer turne nen performed a visual insp rientation by Jackson and T VA supplies, and therefore	d off the pection Full. Th	e power. and saw that two tantal ese two capacitors wer	um c	apacitors had been loaded
Corrective Action/ Resolution					
These capacitors on	BEB S/N 013 have been r	emoved	l and replaced.		
	ds have been visually inspo No other capacitors were				proper orientation of the
Acceptance: MAM: Ron Jackson; M			ISE: Ellen Taylor		
PM: Peter Harvey; C		ognizant Engineer			
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