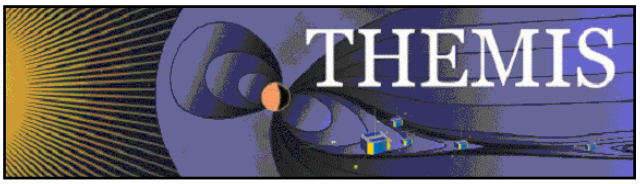

Problem/Failure Report
THM_PFR_211

PFR-211 Title: Bit 3 of MSSS greycode stuck high during F3/4 TV

Assembly : EGSE	**SubAssembly :** Sun Stim Box	
Component :	**Units Affected:** - - - - - -	**Units fixed:** - - - - - -
Originator: Ellen Taylor		
Organization: UCB	**Date:** 7/28/06 (date found)	
Phone: (510) 643-4054	**Email :** ertaylor@ssl.berkeley.edu	

Failure Occurred During (Check one √)

□ Functional test □ Qualification test □ S/C Integration □ Launch operations √ Other (Flight Assy)

Environment when failure occurred:

□ Ambient	□ Vibration	□ Shock	□ Acoustic
□ Thermal	□ Vacuum	√ Thermal-Vacuum	□ EMI/EMC

Problem Description

During the last cycles of the F3/4 T-VAC LPTs, bit 3 of the MSSS greycode scale was not as expected (showed high instead of low).

Analyses Performed to Determine Cause

The problem was seen on both F3 and 4 and again on F1 and 5 pointing to a problem with the VSAT EGSE, not the Probe Sun Sensor (MSSS). Further investigation found that the problem was located within the ADCOLE sun sensor stimulator box.

Corrective Action/ Resolution

A second ADCOLE box is being used for all functional testing of the Probes. The broken ADCOLE box is not needed for further testing and has been taken out of service.

Acceptance:
MAM: Ron Jackson_____; MSE: Ellen Taylor_____

PM: Peter Harvey_____; Cognizant Engineer_____

Date of Closure_____