STEREO IMPACT

PROBLEM REPORT PR-2010 LET Not Rebooting 5/19/2005

PR Numbers: 1xxx=UCB, 2xxx=Caltech/JPL, 3xxx=UMd, 4xxx=GSFC/SEP, 5xxx=GSFC/Mag, 6xxx=CFSR, 7xxx=Keil, 8xxx=FSTFC, 9xxx=MPAe

6xxx=CESR, 7xxx=Keil, 8xxx=ESTEC, 9xxx=MI	PAe		
Assembly: SEP		SubAssembly: LET	
Component/Part Number:	Serial Number: I	Serial Number: FM1	
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Failure Occurred During (Check one $\sqrt{\ }$	<u> </u>		
\Box Functional test $\sqrt{\text{Qualification test}}$	☐ S/C Integration	☐ Launch operations	
Environment when failure occurred:			
\Box Ambient \Box Vibration	☐ Shock	☐ Acoustic	
☐ Thermal ☐ Vacuum	√ Thermal-Vacuum	□ EMI/EMC	
Problem Description			
During thermal balance test on 5/19/2005, at -15 °C as the temperature rose, a reboot of LET was attempted and the sensor would not reboot. A subsequent LET reboot attempt solved the problem.			
Analyses Performed to Determine Cause			
As part of PFR 2014 investigation it was determin cause a symptom like this.			
Corrective Action/ Resolution			
 √Rework □ Repair □ Use As Is □ Scrap 5/28/2005 Retested FM1 SEP Main Assembly at -10 °C in thermal chamber at Caltech, but could not reproduce the anomaly during 100 times that LET was rebooted. The assembly wasn't able to get colder than -10 °C due to the insulation provided by bagging and purging. 7/31/2005 Memory chip replaced on SEP Central Logic Board and it apparently solved this problem for good (Reference PFR 2014). The FM1 unit passed re-qualification T/V test between 8/8/2005 – 8/11/2005. 			
Date Action Taken: 5/28/2005 – 7/31/2005 Retest Results: Passed Corrective Action Required/Performed on other Units □ Serial Number(s): N/A			
Closure Approvals			
Subsystem Lead: _ IMPACT Project Manager: _ IMPACT QA:	Branislav Kecman	Date:8/31/05 Date Date:	