STEREO IMPACT

PR Numbers: 1xxx=UCB, 2xxx=Caltech/JPL, 3xxx=UMd, 4xxx=GSFC/SEP, 5xxx=GSFC/Mag, 6xxx=CESR, 7xxx=Keil, 8xxx=ESTEC, 9xxx=MPAe SubAssembly : LVPS Assembly : IMPACT SEP **Component/Part Number:** Serial Number: FM1 **Originator: David Curtis Organization: U.C. Berkeley** Phone: 510-642-5998 Email: dwc@ssl.berkeley.edu **Failure Occurred During (Check one** $\sqrt{}$) $\sqrt{Functional test}$ □ Qualification test □ S/C Integration \Box Launch operations **Environment when failure occurred:** √ Ambient □ Vibration □ Acoustic □ Shock □ Thermal □ Vacuum □ Thermal-Vacuum □ EMI/EMC **Problem Description** On arrival at Caltech it was found that the SIT and HET +5.3VD and +3.4VD supplies were open. These supplies are provided on a connector attached to the supply via one of two flex strips. The same voltages provided on a second connector attached via the second flex strip were OK. The -6VA supply on the same flex strip connector also seemed to be intermittently open. This supply had been tested and inspected before delivery, but may have been damaged in transit. **Analyses Performed to Determine Cause** Inspection showed that the flex strip was torn. This tear runs through the +5.3VD and +3.4VD lines. The -6VA line is on the opposite end of the same flex strip and showed no visible damage, but was confirmed to be open. The flex is very hard to start a tear but somewhat easier to continue a tear once started. **Corrective Action/ Resolution** □ Rework 🗆 Repair Use As Is √ Scrap The SEP LVPS FM1 top board FM1 SN#4-1 was replaced by FM3 SN#5-2. The new flight board was shipped with a temporary stiffener added to the flexstrip. During test we now verify there is adequate support to the flex strip since it connects to a heavy test harness.

Date Action Taken: 2004-11-22

Retest Results: New flight board successful tested at

board and box level.

Corrective Action Required/Performed on other Units: FM2 SEP -Inspect flex strips for damage and verify signals on all pins. There were no issues found on the FM2 SEP.

Closure Approvals

Subsystem Lead: IMPACT Project Manager: IMPACT QA: NASA IMPACT Instrument Manager:	Date: Date: Date: Date:
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