



PFR-196 Title: FM3 SCM, wrong unit installed onto spacecraft

Assembly : Instruments	SubAssembly : SCM	
Component : SCM PA	Units Affected:	Units fixed:
Originator: Michael Ludlam	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Organization: UCB	Date: 22/JUNE/06	
Phone: 510 642 7732	Email : mludlam@ssl.berkeley.edu	

Failure Occurred During (Check one √)

☐ Functional test ☐ Qualification test ☒ S/C Integration ☐ Launch operations ☐ Other (On Shelf)

Environment when failure occurred:

☒ Ambient ☐ Vibration ☐ Shock ☐ Acoustic
☐ Thermal ☐ Vacuum ☐ Thermal-Vacuum ☐ EMI/EMC

Problem Description

During analysis of the SCM data from the Instrument CPT it was discovered that the calibration signal was about five times higher than it should be.

Analyses Performed to Determine Cause

All SCM preamps showed the same cal signal level except the FM6 unit, which had a resistor value mistake when built (see PFR-002). This unit was serial number 03. During refurbishment of the SCM to include the LDO regulator the serial number 3 unit was attached to the FM3 instrument suite by mistake.

Corrective Action/ Resolution

The serial number 6 preamp was installed onto the side of the FM3 IDPU instead of the serial number 3 preamp. The serial number 3 preamp is the spare unit. All other SCM preamps were visually inspected by UCB and GSFC QA to verify the correct unit was installed on the spacecraft. This PFR is closed.

Acceptance:

MAM: Ron Jackson _____; MSE: Ellen Taylor _____

PM: Peter Harvey _____; Cognizant Engineer _____

Date of Closure _____