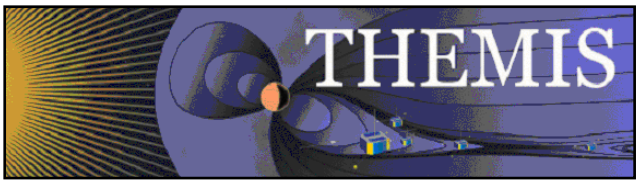

Problem/Failure Report
THM_PFR_208

PFR-208 Title:F5 SCM sensor connected during magnetics test degauss

Assembly : Instruments	**SubAssembly : SCM**	
Component : SCM Preamp	**Units Affected:**	**Units fixed:**
Originator: Michael Ludlam	o o o o x o	o o o o x o
Organization: SSL	**Date: 13th September 2006**	
Phone: 510-642-7732	**Email : mludlam@ssl.berkeley.edu**	

Failure Occurred During (Check one √)

□ Functional test x Qualification test □ S/C Integration □ Launch operations □ Other

Environment when failure occurred:

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

Problem Description

During the FM5 DC Magnetics testing at JPL the SCM sensor was not disconnected from the SCM preamp during deperming as required in the procedure.

Analyses Performed to Determine Cause

Analysis was conducted for the applied field of 15 Gauss at 0.3Hz to see if it could have damaged the SCM preamp. The applied voltage to the SCM preamp was calculated to be 2V, the maximum input voltage the preamp can sustain is 45V.
A functional test of the preamp with the feedback plug attached was conducted and the results showed nominal behavior.

Corrective Action/ Resolution

No damage was done to the SCM preamp by no unplugging it from the SCM sensor during the deperming operation. However, personnel were made aware of the requirement and the procedure was reviewed to ensure future tests included the sensor disconnected from the preamp during DC magnetics deperming.
This PFR is closed.

Acceptance:
MAM: Ron Jackson_____; MSE: Ellen Taylor_____

PM: Peter Harvey_____; Cognizant Engineer_____

Date of Closure_____