

PFR-002 Title: SCM FM3 Cal level

| Assembly : SCM | | SubAssembly : Pre-amplifier FM3 | |
|---------------------------------------|---|---------------------------------|---------------------|
| Component : | | | |
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| Failure Occurred ☑ Functional test | During (Check one √) □ Qualification test | □ S/C Integration | □ Launch operations |
| Environment wh | en failure occurred: | | |
| ☑Ambient | □ Vibration | □ Shock | |
| □ Thermal | □ Vacuum | □ Thermal-Vacuum | □ EMI/EMC |

Problem Description

(In this section it is important to document the specific symptoms which exhibited the problem. In the event we see it happen again, we would like to know as much as possible.)

The SCM pre-amplifier box generates a triangular wave used for in flight calibration once per orbit. When this function is activated, the output signal of the pre-amplifier should be around 300mV p-p. In FM3 this level is 1.2 V p-p

Analyses Performed to Determine Cause

(How do we know how the failure happened? Was it a bad part, bad handling, what?)

The reason is an error in a resistor value. As the output level of the Calibration signal can be chosen to be any value less than 5V, it has been decided not to refurbish the pre-amplifier and keep it as is. It will be used as a spare model.

Corrective Action/ Resolution

(How do we fix the unit? And how do we make sure it doesn't happen again?)

No corrective action.

Acceptance: MAM: Ron Jackson_____; MSE: Ellen Taylor_____

PM: Peter Harvey_____; Cognizant Engineer_____

Date of Closure_____