



PFR-005 Title: Antenna-Preamplifier reference change

Assembly : THEMIS – SCM FM2	SubAssembly : Antenna
Component : Structure	
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Failure Occurred During (Check one ✓)

☒ Assembly
 ☐ Qualification test
 ☐ S/C Integration
 ☐ Launch operations

Environment when failure occurred:

☒ Ambient
 ☐ Vibration
 ☐ Shock
 ☐ Acoustic
☐ 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.)

One of the structure lips holding the sensors broke. The structure reference is SCM-SC-2.

Analyses Performed to Determine Cause

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

The cause was an error in the tightening torque (too high).

Corrective Action/ Resolution

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

Since all the six models have already been manufactured, it has been decided not to wait for the manufacturing of another structure, and use antenna SCM-SC-4 with the preamplifier PA-2. The new structure will be referenced SCM-SC-7 and will be used with PA-4

Acceptance:

MAM: Ron Jackson _____ ; MSE: Ellen Taylor _____

PM: Peter Harvey _____ ; Cognizant Engineer _____

Date of Closure _____