



PFR-215 Title: F3 XPNDR Secondary Setpoints the Same as Primary

Assembly : Thermal	SubAssembly : Heaters	
Component : Transponder	Units Affected:	Units fixed:
Originator: Christopher Smith	<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"/>
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Failure Occurred During (Check one ✓)

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

Environment when failure occurred:

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

Problem Description

The thermostats used to control the secondary heater service on the F3 transponder have the same setpoints (-18 to -13) as the thermostats used on the primary service. Apparently the thermostat model used for the primary service was also used on the secondary service.

Analyses Performed to Determine Cause

This behavior was detected in the functional test of these heaters in thermal vacuum testing at JPL. No further testing is required.

Corrective Action/ Resolution

Fly as is. There is no detrimental effect of this problem. The THEMIS Probe Users guide has been updated to reflect this special configuration.

Acceptance:

MAM: Ron Jackson _____; MSE: Ellen Taylor _____

PM: Peter Harvey _____; Cognizant Engineer _____

Date of Closure _____