

Problem/Failure Report THM_PFR_204

PFR-204 T	itle:FM3 noise pro	blen	ns seen during p	re-ship CPT
Assembly: Instruments			SubAssembly : FGM	
Component : FGS			Units Affected:	Units fixed:
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x Functional test	d During (Check one Qualification test \Box S/C I		tion Launch operation	ns 🗆 Other
x Ambient	nen failure occurred: □ Vibration		□ Shock	□ Acoustic
□ Thermal	□ Vacuum		□ Thermal-Vacuum	□ EMI/EMC
	Proble T the FGM FM3 sensor (seri		escription	
Another CPT was performed to see if the problem could be repeated. The second CPT was performed and the noise improved but there were still some issues with the data leading to the theory that there are some grounding issues that need to be solved with running the FGS in the TCU. A further CPT and noise investigation was run on F3. The noise levels on these tests were within expected noise levels. After further consultation it was remembered that the TCU extension harness did not have the feedback shield (pin 12) connected to a ground as when it is connected to the boom harness pin 12 is not connected at that end. A modification needs to be made to the TCU harness to ground the feedback shield. Once this is done and further test will be run with the FGM on F3.				
	Corrective	e Acti	ion/ Resolution	
boom shoulder end o	ation was made to the FGM connecting pin 12 to pin 11 to CPT was performed on all to is closed.	and to	the shield of the feedback	ack lines on the IDPU to
Acceptance: MAM: Ron Jackson; M		; M	ISE: Ellen Taylor	
PM: Peter Harvey; Co		; Co	ognizant Engineer	
Date of Closure				