



PFR-152 Title: Invalid APIDs in Probe Fill Packets

Assembly : BAU	SubAssembly : CIM	
Component :	Units Affected:	Units fixed:
Originator: Ellen Taylor	- X - - - -	- X - - - -
Organization: Swales/UCB	Date: 3/08/06 (date found)	
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Failure Occurred During (Check one ✓)

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

Environment when failure occurred:

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

Problem Description

During the Instrument CPT on 3/8/06, it was noticed that the BAU would send invalid APID packets as fill data (i.e. APID 2FF, 4FF, etc). The invalid APIDs were not caught on ITOS because only valid APID packets are counted. However, when the data gets to the UCB APID splitter, errors indicating a problem are logged.

Analyses Performed to Determine Cause

This condition can be reproduced any time the high-speed science data link is enabled and the IDPU is not sending science data.

Corrective Action/ Resolution

This problem was re-created and fixed by Hammers in FSW V3.1. Testing at UCB of Probe 4 (with EDU BAU and FSW V3.1) on DOY 129 verified this problem no longer exists.

Acceptance:

MAM: Ron Jackson _____; MSE: Ellen Taylor _____

PM: Peter Harvey _____; Cognizant Engineer _____

Date of Closure _____