



## **PFR-23 Title: IDPU DCB Backplane Bad Connection**

<b>Assembly :</b> DCB sn3 / ETU Backplane	<b>SubAssembly :</b>
<b>Component :</b> Din96 Connector	FM1 affected FM1 fixed
<b>Originator:</b> Michael Ludlam	<b>Organization:</b> UCB
<b>Phone :</b> 642 7732	<b>Email :</b> mludlam@ssl.berkeley.edu

### **Failure Occurred During (Check one ✓)**

☒ Functional test      ☐ 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.)*

PCB not receiving commands using DCB SN3 Flight board with ETU backplane board.

### **Analyses Performed to Determine Cause**

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

Problem traced to the connection between DCB 96pin connector and Backplane 96 pin connector on the backplane. The problem was temporary, so during analyses (demating the connector and measuring continuity between pins and the board) the problem went away. Consequently it was difficult to determine if the problem was with the DCB (Flight) or the Backplane (ETU).

### **Corrective Action/ Resolution**

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

Currently the DCB has been working well with the Flight Model backplane board. If this continues the DCB should be left as is, if the problem returns, even temporarily, then the DCB backplane connector should be replaced.

Update to close PFR: IDPU Assembled and successfully passed vibration test. No recurrence of problem. PFR considered close. 19MAY05. MML

Acceptance:

MAM: Ron Jackson \_\_\_\_\_ ; MSE: Ellen Taylor \_\_\_\_\_

PM: Peter Harvey \_\_\_\_\_ ; Cognizant Engineer \_\_\_\_\_

Date of Closure \_\_\_\_\_