



PFR-165 Title: Solar Array Diode Board Conformal Coating

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|--------------------------------------|------------------------------------------|---------------------|
| Assembly : Solar Arrays | SubAssembly : Diode Boards | |
| Component : Conformal Coating | Units Affected: | Units fixed: |
| Originator: Ellen Taylor | - X - - - - | - X - - - - |
| Organization: Swales/UCB | Date: 4/19/06 | |
| Phone: (510) 643-4054 | Email : ertaylor@ssl.berkeley.edu | |

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 solar array inspection at Swales, it was discovered that the conformal coating on some of the SA diode boards was insufficient.

Analyses Performed to Determine Cause

Swales inspected the diode boards that were easily accessible on F2 at UCB and determined that all of them (2 per panel) should be re-coated.

Corrective Action/ Resolution

The conformal coating material has been sent to UCB and the diode boards will be re-coated.

Update 6/10/06: All diode boards were re-coated and the solar arrays have been re-integrated onto Probe 2.

Acceptance:

MAM: Ron Jackson _____; MSE: Ellen Taylor _____

PM: Peter Harvey _____; Cognizant Engineer _____

Date of Closure _____