

# CRaTER Verification Procedure/Report

**Title: EMC/EMI Environments**

**Document 32-06050.03 Rev 01**

Reference: 32-06006.01 Rev A, EMC/EMI Test Procedure/Plan

Requirement: CE01, CE03, RE02, CS01, CS02, CS06, RS06

Procedure: 32-06006.02 Rev 01, EMC Test Procedure by Parker/Chomerics

## Results:

Four significant test failures were identified. The testing started with SN2. When failures (documented in test report) were identified during RE02, a fix was proposed and implemented – see ECO 32-253 – which removed internal wiring used to carry input power line monitor points to housekeeping circuitry. This ECO was first implemented on SN1, which at the time had not yet started the environmental test cycle. The effects on RE02 were quite beneficial, though still showing out-of-limit results. The remaining CS01, CS02, CS06, and RS06 tests were completed using the (ECO-modified) SN1.

Subsequent to this test cycle, SN2 was modified per ECO 32-253 to be identical to SN1; we believe that the test results, though performed on a combination of the two units, are applicable to both by virtue of design and manufacturing similarity.

S/N: 1 & 2

Passed: CS02, CS06 Failed: CE01, CE03, RE02, RS03

Comments: Malfunction reports written for failed tests. CE01 & CE03 failures involved little energy; RE02 failure was reduced significantly by ECO, but still significant; RS03 failure was limited to launch pad environment limits.

Performed by: \_\_\_\_\_

R&QA: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_