

# CRITICAL ITEMS LIST

ASSY NOMENCLATURE: SILVER-ZINC BATTERY CHARGER

Page 1 of 1

Asy P/N: 528-30769

| FUNCTION  | FMEA |     | CRIT                                 | FAILURE MODE AND CAUSE   | FAILURE EFFECT   | RATIONALE FOR ACCEPTANCE   |
|---|------|-----|--------------------------------------|--|--|--|
|   | REF  | REV |                                      |  |  |  |
| Charging LED indicates that Battery Charger is charging | FMB  | N/C | 2/2<br>A - N/A<br>B - N/A<br>C - N/A | <p><b>MODE:</b><br/>Charging LED does not operate.</p> <p><b>CAUSES:</b><br/>LED failure<br/>failure of Electronic Components<br/>Electrical Short or Open Circuit</p> | <p>End Item LEDs will not illuminate</p> <p>GFE Interface Erroneous "error" termination displayed (no LEDs)</p> <p>Mission Loss of Mission Objectives</p> <p>Crew/Vehicle None</p> <p>Time to Effect Immediate</p> | <p>1. <b>DESIGN</b><br/>Established reliability LEDs are used for both "Charge" and "Ready" lights. Lamp test current below 50% derating level, steady state on current is even less, to conserve power and prolong Reverse bias of LED impossible during operational use. Normal failure mode characterized by intensity deterioration over a long period of time.</p> <p>2. <b>TEST</b><br/>PDA in accordance with Document # P528/ATP-01001 and PIA in accordance with Document # P528/PIA-01001 tests verifies LED operation. During each POR the LEDs are "Lamp Checked."<br/> <ul style="list-style-type: none"> <li>Certified in accordance with Document # P528-CERT 01001, Para 4.2.3.6</li> </ul> </p> <p>3. <b>INSPECTION</b><br/>PDA in accordance with Document # P528/ATP-01001 and PIA in accordance with Document # P528/PIA-01001 test results are verified by Quality Assurance.</p> <p>4. <b>FAILURE HISTORY</b> This is a new item. There is no failure history to date.</p> |

DATE: 3/16/92

REVISION: BASIC

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