

SHUTTLE CRITICAL ITEMS LIST - CRBITER

SUBSYSTEM : EPD&C + COMM. & TRACK. FMEA NO 05-6PK-20250 -2 REV: 12/9/87

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|--------------------------|--|--------------|-----|---------------|------------|
| ASSEMBLY : SNL A7A1 | | | | CRIT. FUNC: 2 | |
| P/N RI : ME452-0102-7105 | | | | CRIT. HW: 2 | |
| P/N VENDOR: | | VEHICLE | 102 | 103 | 104 |
| QUANTITY : 1 | | EFFECTIVITY: | X | X | X |
| : ONE | | PHASE(S): | PL | LO | CO X DO IS |

| | | | | |
|---------------|-----------|---------------------------------|------------------------|---------------------|
| PREPARED BY: | | REDUNDANCY SCREEN: A- | B- | C- |
| DES <i>MD</i> | R DAVIS | APPROVED BY: | | APPROVED BY (NASA): |
| REL <i>ML</i> | M ALVAREZ | DES <i>[Signature]</i> 12/17/87 | SSM <i>[Signature]</i> | |
| QE | J COURSEY | REL <i>[Signature]</i> 12-18-87 | REL <i>[Signature]</i> | |
| | | QE <i>[Signature]</i> | QE <i>[Signature]</i> | |

SSM M Bluse 1-21-88

ITEM: SWITCH, TOGGLE, DPDT, FOCUS COMMAND, POSITIONS ARE FAR-CTR-NEAR (MOMENTARY)

FUNCTION: THE FAR POSITION PROVIDES A SIGNAL TO THE RCU WHICH DRIVES THE LEM. MOTOR TO FOCUS ON DISTANT SCENES. THE SWITCH RETURNS TO THE CENTER (CTR) POSITION UPON RELEASE AND ALLOWS OPERATION CONSISTENT WITH THE LAST COMMAND. NEAR POSITION SIGNALS THE RCU WHICH DRIVES THE LENS MOTOR TO FOCUS ON THE NEAR SCENES. 36V70A7A1S40.

FAILURE MODE: FAILS CLOSED, PREMATURE CLOSED, SHORT TO GROUND, CONTACT TO CONTACT SHORT.

CAUSE(S): VIBRATION, MECHANICAL SHOCK, CONTAMINATION, PROCESSING ANOMALY, PIECE-PART FAILURE.

EFFECT(S) ON:

- (A) SUBSYSTEM (B) INTERFACES (C) MISSION (D) CREW/VEHICLE
- (A,B) LOSS OF PANEL FOCUS FUNCTION.
- (C) LOSS OF MISSION CRITICAL VIDEO RESULTING IN LOSS OF MISSION.
- (D) NO EFFECT.

DISPOSITION & RATIONALE:

- (A) DESIGN (B) TEST (C) INSPECTION (D) FAILURE HISTORY (E) OPERATIONAL USE
- (A,B,C,D) REFER TO APPENDIX A, ITEM #1, TOGGLE SWITCH.

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : EPD&C - COMM. & TRACK. FMEA NO 05-6PK-20250 -2 REV:12/9/8

(B) TEST

GROUND TURN AROUND TEST - VERIFY FOCUS FUNCTION CONTROL VIA THE D
PANEL - PERFORMED TO SUPPORT FLIGHT MANIFEST.

(E) OPERATIONAL USE

WHERE POSSIBLE, PROCEDURES SHOULD BE DESIGNED SO THEY CAN BE ACCOMPLISHED
WITHOUT CCTV.