

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : EPE&C - COMM. & TRACK. FMEA NO 05-6PK-20251 -2 REV: 12/9/87

| | | | | |
|--------------------------|--------------|-----|-----|---------------|
| ASSEMBLY : PNL A7A1 | | | | CRIT. FUNC: 2 |
| P/N RI : ME4S2-0102-7105 | | | | CRIT. HDW: 2 |
| P/N VENDOR: | | | | |
| QUANTITY : 1 | VEHICLE | 102 | 103 | 104 |
| : ONE | EFFECTIVITY: | X | X | X |
| | PHASE(S): | PL | LD | CO X DO LS |

| | | | | | |
|-----------------|-----------|---------------------------------|---------------------|--------------------|----|
| PREPARED BY: | | REDUNDANCY SCREEN: | A- | E- | C- |
| DES <i>1280</i> | R DAVIS | APPROVED BY: | APPROVED BY (NASA): | | |
| REL <i>MA</i> | M ALVAREZ | DES <i>[Signature]</i> 12/17/87 | SEM | <i>[Signature]</i> | |
| QE | J COURSEN | REL <i>[Signature]</i> 12-18-87 | REL | <i>[Signature]</i> | |
| | | QE <i>[Signature]</i> | QE | <i>[Signature]</i> | |
| | | | SSM | <i>[Signature]</i> | |

ITEM:
SWITCH, TOGGLE, SPDT, TV CAMERA ZOOM COMMAND, POSITIONS ARE IN-CTR-C (MOMENTARY).

FUNCTION:
THE "IN" POSITION PROVIDES MAGNIFICATION OF OBJECTS. THE SWITCH RETURNS TO THE CENTER (CTR) POSITION UPON RELEASE AND ALLOWS OPERATION CONSISTENT WITH THE LAST COMMAND. THE "OUT" POSITION REDUCES OBJECTS IN THE FIELD-OF-VIEW. 36V73A7A1541.

FAILURE MODE:
FAILS CLOSED, PREMATURE CLOSED, SHORT TO GROUND, CONTACT TO COMMON 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 CONTROL FOR THE ZOOM 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.
(B) TEST
GROUND TURN AROUND TEST - VERIFY TV CAMERA ZOOM CONTROL FROM THE C PANEL - PERFORMED TO SUPPORT FLIGHT MANIFEST.

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : EPDSC - COMM. & TRACK. FMEA NO 05-6PK-20251 -2 REV:12/9/87

(E) OPERATIONAL USE
WHERE POSSIBLE, PROCEDURES SHOULD BE DESIGNED SO THEY CAN BE ACCOMPLISHED
WITHOUT CCTV.