

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : EPD&C - COMM. & TRACK. FMEA NO 05-6PK-20227 -2 REV: 12/9/87

ASSEMBLY : PNL A7A1
 P/N RI : MC452-3061-7170
 P/N VENDOR:
 QUANTITY : 1
 : ONE

VEHICLE	102	103	104
EFFECTIVITY:	X	X	X
PHASE(S):	PL	LO	OO X DO LS

CRIT. FUNC: 2
 CRIT. HDW: 2

PREPARED BY: APPROVED BY: A- B- C-
 DES R DAVIS APPROVED BY (NASA):
 REL M ALVAREZ SSM
 QE J COURSEN

12/17/87
 12-3-87
 1-21-88

ITEM: SWITCH, PUSH-BUTTON, ILLUMINATED, PORT FWD BAY VIDEO INPUT.

FUNCTION: PROVIDES A SIGNAL TO THE REMOTE CONTROL UNIT (RCU) WHICH ENABLES THE PORT FWD BAY TV. 26V73A7A1S27.

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

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

EFFECT(S) ON:
 (A) SUBSYSTEM (B) INTERFACES (C) MISSION (D) CREW/VEHICLE
 (A,B) LOSS OF PANEL CONTROL FOR THE PORT FWD VIDEO.
 (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 #3, PUSH-BUTTON SWITCH.
 (B) TEST
 GROUND TURNAROUND TEST - VERIFY TV CAMERA SELECTION FROM THE D&C PANEL. PERFORMED TO SUPPORT FLIGHT MANIFEST.
 (E) OPERATIONAL USE
 WHERE POSSIBLE, PROCEDURES SHOULD BE DESIGNED SO THEY CAN BE ACCOMPLISHED WITHOUT CCTV.