

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : EPD&C - COMM. & TRACK. FMEA NO 05-62K-20119 -1 REV: 12/9/87

ASSEMBLY : PNL R15  
 P/N RI : MC454-0026-3010  
 P/N VENDOR:  
 QUANTITY : 1  
 : ONE  
 :

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

PREPARED BY: DES *ACQ* R DAVIS  
 REL *MA* M ALVAREZ  
 QE J COURSEN

REDUNDANCY SCREEN: A- B- C-  
 APPROVED BY: OES *[Signature]* 12/17/87 SEM *[Signature]*  
 REL *[Signature]* 12-18-87 REL *[Signature]*  
 QE *[Signature]* CE *[Signature]*  
 S.M. M.B. 1-21-88

ITEM:  
 CIRCUIT BREAKER CB46, PORT AFT CAMERA HEATER POWER (EVA/KEEL).

FUNCTION:  
 PROVIDES +28VDC OVERCURRENT PROTECTION FROM MAIN BUS C TO PORT AFT CAMERA HEATER. 32V73A15CB46.

FAILURE MODE:  
 FAILS OPEN, FAILS TO CONDUCT, FAILS TO CLOSE.

CAUSE(S):  
 VIBRATION, THERMAL STRESS, MECHANICAL SHOCK, CONTAMINATION, PROCESSING ANOMALY, STRUCTURAL FAILURE.

EFFECT(S) ON:  
 (A) SUBSYSTEM (B) INTERFACES (C) MISSION (D) CREW/VEHICLE  
 (A,B) LOSS OF VIDEO FROM PORT AFT CAMERA.  
 (C) LOSS OF CRITICAL VIDEO COULD RESULT 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 D, ITEM #1, CIRCUIT BREAKER.  
 (B) TEST  
 GROUND TURNAROUND TEST- VERIFIES CCTV PAYLOAD BAY MISSION CRITICAL VIDEO. PERFORMED WHEN FLIGHT MANIFEST REQUIRES USE OF MISSION CRITICAL VIDEO.  
 (E) OPERATIONAL USE  
 WHERE POSSIBLE, PROCEDURES SHOULD BE DESIGNED SO THEY CAN BE ACCOMPLISHED WITHOUT CCTV.