

SUBSYSTEM CCTV
 UNIT IYC/CLA
 ASSY. DWG. 2294019-506, 508/2294023-503
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

SHUTTE CCTB FAILURE MODE
& EFFECTS ANALYSIS

PREPARED BY H. Krautz
 DATE 8-19-86
 REVISED 7-11-82

FUNCTION: Provide a video output signal from the IYC to the VSU/IVM.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.2.2	A malfunction in the camera to cause total loss of the active video signal or video information that will provide degraded performance.	TYC A2 Command Decode Logic. Command Execution Logic. Camera Timing Logic. A3 Horizontal Deflection. Vertical Deflection. Focus Current. Horizontal Alignment. Vertical Alignment. A4 Black/White Clipper. Gamma Correction. Aperture Correction. Shading Correction. Video Output Driver. A5 Automatic Light Control. Automatic Gain Control. Dark Current Compensation. A6 Output Voltage Regulator. Input Voltage Pre-regulator. A7 Primary Oscillator/Driver (sync. loss). Secondary Rectifiers/Filters (change of voltage or loss of filtering).	(1) Unable to open iris. (2) Degradation of picture content. Worst Case: Loss of mission critical video.	FLT/GND (1) Monitor will display an all gray field with a high level of background noise. (2) Monitor display all white or all black. (3) IVM or monitor display exhibits unusual shading characteristic or picture distortion.	None	2/2	
			Worst Case if video is not mission critical, (for B & C cameras only): Unable to verify PLB door pit bulkhead batches are closed.	Same as above	None.	3/1R	(Usage of EVA tools is available.)

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SUBSYSTEM CCTV
 UNIT 1YC/ELA
 ASSY. QTAG. 2294019-506, 508/2294021-503
 QUANTITY/LOCATION 1/20 MULTIPLE (CARGO BAY STACK)

SHUTTLE CCTV FAILURE MODE
 & EFFECTS ANALYSIS

PREPARED BY M. Kravill
 DATE 8-19-86
 REVISED 2-17-87

FUNCTION: Provide a video output signal from the TVC to the VDU/IVM.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.7.2 Continued		:A8 High Voltage Power Supply. :A9 Target Pre-amplifier. :A10 Beam Current Regulator. Cathode Blanking. :A12 Shading Waveform Generator. :A14 SIT Tube.					

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