

SUBSYSTEM	CCTV			PREPARED BY	M. Krawley
UNIT	TVC/MLA		SHUTTLE CCTV FAILURE MODE	DATE	8-19-86
ASSY. DWG.	2294819-506, 508/2307088-503		& EFFECTS ANALYSIS.	REVISED	7-17-82
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)				

FUNCTION: Provide a video output signal from the TVC to the YSU/TVM.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.3.2	A malfunction in the camera to cause total loss of the active video signal or video information that will provide degraded performance.	TVC 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 lens iris. (2) Degradation of picture content. Worst Case: Loss of mission critical video.	FLY/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) TVM or monitor display exhibits unusual shading characteristic or picture deflection.	None	2/2	
			Worst Case (if video is not mission critical, for B & C cameras only): Unable to verify PLB door aft bulkhead latches are closed.	Same as above	None.	3/1R	(Usage of EVA tools is available.)

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SUBSYSTEM <u>CCTV</u>	SHUTTLE CCTV FAILURE MODE	PREPARED BY <u>M. Kravitz</u>
UNIT <u>TVC/MRA</u>	<u>B EFFECTS ANALYSIS</u>	DATE <u>8-19-86</u>
ASST. DWG. <u>2294019-506, 508/2307008-503</u>		REVISED <u>7-17-87</u>
QUANTITY/LOCATION <u>1/MULTIPLE (CARGO BAY STACK)</u>		

FUNCTION: Provide a video output signal from the TVC to the VSL/TVN.

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

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