

SUBSYSTEM	CCTV			PREPARED BY	M. Kravitz
UNIT	TVC/MIA		SHUTTLE CCTV FAILURE MODE	DATE	8-19-86
ASSY. DWG.	2294B19-506, 500/2294B20-502		& EFFECTS ANALYSIS	REVISED	5-7-87
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)				

FUNCTION: The TVC will respond to commands on the composite sync input line that have been initiated on the crew cabin A7 panel or via the uplink.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.0.5	TVC/MIA does not respond to any command via the A7 panel or the uplink.	TVC A1 Command Detector. Sync Stripper. Clock Divider Chain. Sync Generator. A2 Command Decode Logic. Command Execution Logic. Location Code Logic. Camera Timing Logic. A4 Sync/Cmd Rcvr A5 Automatic Light Control. A6 Power On/OFF Switching. Input Voltage Prereg. Output Voltage Regs. A7 DC-DC Converter Primary Oscillator/Driver. Secondary Rectifiers/Filters. A13 Master Oscillator.	(1) No Pan-tilt motion. (2) No lens motion; i.e., focus, zoom, or Iris. (3) Loss of high or low rate of travel for PTM. :Worst Case: :Loss of mission critical video.	FLT (1) Scene Information as observed on TVM appears to remain stationary. (2) In response to lens motion commands, May be out of focus. (2) No change in picture APL in response to ALC or GAMMA commands. (3) Picture on TVM does not change in response to pan or tilt commands. (4) May observe no movement of the PTM, in response to commands, either visually or with the aid of a different camera. (5) Rate of pan or tilt travel as seen on TVM does not change in response to high/low commands.	None	2/2	

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SUBSYSTEM	CCIV	SHUTTLE CCIV FAILURE MODE	PREPARED BY	M. Kravitz
UNIT	TVC/PLA	& EFFECTS ANALYSIS	DATE	8-19-86
ASSY. DWG.	2294819-506, 508/2294820-502		REVISED	7-12-82
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)			

FUNCTION: The TVC will respond to commands on the composite sync input line that have been initiated on the crew cabin A7 panel or via the uplink.
(Continued)

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2-P-5 continued				END Same as FLT as observed on ground: TV monitor. Additionally can verify no response: to AIC/GAPPA commands by view- ing status on L16 using a waveform monitor.			
			Worst Case (if video is not mission critical, for B & C cameras only): Unable to verify P18 door aft bulkhead atches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/IR	