

SUBSYSTEM	CCTV	PREPARED BY	H. Kravitz
UNIT	TVC/MLA	DATE	8-19-66
ASST. DWG.	2294B19-506, 508/2JD7080-503	REVISED	5-7-67
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)		

SINGLE CCTV FAILURE MODE
B EFFECTS ANALYSIS

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/RLQ	CRIT'Y	HAZARDS/REMARKS
2.3.5	TVC/MLA does not respond to any command via the A7 panel or the uplink.	TVC A7 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 Recv 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 PTU. <u>Worst Case:</u> Loss of mission critical video.	TLR (1) Scene Information as observed on TVM appears to remain stationary in response to lens motion commands. May be out of focus. (2) No change in picture APL in response to ALC or GMPR commands. (3) Picture on TVM does not change in response to pan or tilt commands. (4) May observe no movement of the PTU, 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	

SUBSYSTEM <u>CCTV</u>	SHUTTLE CCTV FAILURE MODE & EFFECTS ANALYSIS	PREPARED BY <u>M. Kravitz</u>
UNIT <u>TYC/MIA</u>		DATE <u>8-19-86</u>
ASSY. DWG. <u>2294819-506, 508/2307800-503</u>		REVISED <u>7-12-87</u>
QUANTITY/LOCATION <u>1/MULTIPLE (CARGO BAY STACK)</u>		

FUNCTION: The TYC 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	CRITICITY	HAZARDS/REMARKS
2.3.5				END			
continued				Same as FLE as observed on ground: TV monitor. Additionally can verify no response: in ALC/GNDIA commands by viewing status on L16 using a uniform monitor.			
			Worst Case (if video is not mission critical, for B & C cameras only): Unable to verify PLD door off bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/IR	

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 ATTACHMENT -
 PAGE 48 OF 109