

SUBSYSTEM CCIV
 UNIT TVC/CLA
 ASST. DWG. 2294819-506, 508/2294821-503
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

SIMULTE CCIV FAILURE MODE
& EFFECTS ANALYSIS

PREPARED BY M. Krawiec
 DATE 8-19-86
 REVISED 9-17-86

FUNCTION: The TVC will respond to commands on the composite sync input line that have been initiated on the crew cabin A2 panel or via the uplink.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLAG/HT/GRND	CORRECT ACTION TIME Avail/REQ	CRIT'Y	HAZARDS/R/IMPKS
2.2.5	TVC/CLA does not respond to any command via the A2 panel or the uplink.	<u>TVC</u> <u>A1</u> Command Detector. Sync Stripper. Clock Divider Chain. Sync Generator. <u>A2</u> Command Decode Logic. Command Execution Logic. Location Code Logic. Camera Timing Logic. <u>A3</u> Sync/Cmd Rcvr <u>A5</u> Automatic Light Control. <u>A6</u> Power On/Off Switching. Input Voltage Prereg. Output Voltage Regs. <u>A7</u> DC-DC Converter Primary Oscillator/Driver. Secondary Rectifiers/ Filters. <u>A13</u> Master Oscillator.	(1) No Pan-0011 motion. (2) No lens motion; i.e., focus, zoom, or iris. (3) Loss of high or low rate of travel for PTU. Worst Case: loss of camera due to inability to change functions.	<u>FLT</u> (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 GMMH 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>	SMITILE CCTV FAILURE MODE & EFFECTS ANALYSIS	PREPARED BY <u>M. Keavill</u>
UNIT <u>ENC/CLA</u>		DATE <u>8-19-86</u>
ASSY. DRWG. <u>2294819-506, 508/2294821-503</u>		REVISED <u>7-11-87</u>
QUANTITY/LOCATION <u>1/MULTIPLE (CARGO BAY STACK)</u>		

FUNCTION: The EVC 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 EMD ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.2.5 continued				END Same as FLT as observed on ground; TV monitor. Additionally can verify no response; to ATC/GMMA 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 P10 door aft bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	J/IN	

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 ATTACHMENT -
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