

SUBSYSTEM	CCTV			PREPARED BY	M. Krafft
UNIT	TVC/MIA		SHUTTLE CCTV FAILURE MODE	DATE	8-19-86
ASSY. DWG.	2294B19-506, 508/2294B20-502		& EFFECTS ANALYSIS	REVISED	7-17-87
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)				

FUNCTION: Provide a video output signal from the TVC to the VSU/EVR.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.1.3.1	Time base errors (jitter) in the synchronization information on the video output line. Video information is present and contains the same time base errors.	<u>A1</u> Sync Generator Clock Divider Chain Phase-Locked Loop <u>A2</u> Camera timing logic <u>R13</u> Master Oscillator TVC Monitors	<u>Worst Case:</u> Degraded video.	<u>FLT/GND</u> Monitor picture erratic and jitters. Picture may appear to roll.	None	2/2	
			Degradation of camera video until self-heating of circuitry restores normal operation.	<u>FLT/GND</u> Monitor picture may appear erratic upon power turn-on after a thermal cold exposure.	Keep TVC powered for a minimum of 30 minutes.		
			<u>Worst Case:</u> Loss of mission critical video.	After a period of time the monitor display will appear normal.			
			<u>Worst Case (if video is not mission critical, for B & C cameras only):</u> Unable to verify P/B door all bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/1R	

540210J
 ATTACHMENT -
 PAGE 11 OF 109