

SUBSYSTEM	CCTV	PREPARED BY	M. Krawitz
UNIT	TVC/DLA	DATE	8/16/86
ASSY. DWG.	2294819-506, 508/2294821-503	REVISED	7-17-82
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)		

SHUTTLE CCTV FAILURE MODE
& EFFECTS ANALYSIS

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

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.2.1	No output signal to the VSU. Neither video or synchronization information is present.	<u>TVC</u> <u>A1</u> Sync Generator, Clock Divider Chain. <u>A2</u> Camera Timing Logic. <u>A4</u> Sync Formatter, Video Output Drive. <u>A6</u> Power ON/OFF Switching Input Voltage Pre-regulator, Output Voltage Regulators. <u>A7</u> DC-DC Converter, Primary Oscillator Drive, Secondary Rectifiers/Filters. <u>A13</u> Master Oscillator.	Loss of camera output depicting scene information within FOV of lens assembly. Worst Case: Loss of mission critical video.	<u>FLT</u> (1) No visual display of scene information on the TDM. (2) No status talkback to the A2 panel lites for ALC/COMM. <u>END</u> (1) No visual display of scene information on ground monitor display. (2) No signal present on wave-form monitor. (3) No readout present on GSE of camera status.	None	2/2	
			Worst Case III video is not mission critical. For B & C cameras only: Unable to verify P/B door aft bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/1R	

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ATTACHMENT -
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