

SUBSYSTEM	CCIV		PREPARED BY	M. Kravitz
UNIT	TVC/MLA		DATE	8-19-86
ASSY. DWG.	2294819-506, 508/2294820-502		REVISED	10-3-86
QUANTITY/LOCATION	1/MULTIPLE (CARGO BAY STACK)			

SHUTTLE ECIV FAILURE MODE
& EFFECTS ANALYSIS

FUNCTION: Provide telemetry information of the camera status during the vertical blanking interval.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DEFECT FLIGHT/GROUND	CORRECT ACTION TIME ANAL/REQ	CRIT'Y	HAZARDS/REMARKS
2.1.4	loss of camera telemetry information located on lines 04, 16, 17, 08 and 19 of the vertical blanking interval.	TVC A1 Temperature telemetry. A2 Camera Status Logic. A2 Pan-Tilt Logic. A0 Sync and CHD/REVR. Video Output Driver.	(1) loss of telemetry information; but camera is still fully functional. (2) Loss of temperature telemetry; on IIB will be misinterpreted as an over-temperature condition and cause an alarm to be issued. <u>Worst Case:</u> loss of over-temperature indicator which could result in loss of aft bulkhead camera ability to verify payload bay door latches are closed.	FLT (0) Status lights for ALC/GAMMA on crew A7 panel are not illuminated when commanding this camera. (2) Loss of Pan-Tilt angle information on TVM. (3) Over-temperature indication of 175°C will appear on TVM when this camera is selected. (4) Over-temperature flag is issued by RCU. Same as FLT but indication will be on GSE equipment. May display status data on waveform monitor to confirm failure.	None	3/IR	

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ATTACHMENT
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