

Subsystem <u>CCTV</u>	CCTV Intensified Television Camera Failure Mode and Effects Analysis Space Shuttle Orbiter	Prepared by <u>G. Fitten</u>
Unit <u>ITVC</u>		Date <u>10/28/94</u>
Assy. Dwg. <u>20007442G1</u>		Revised _____
Quantity <u>/Location-1 Multiple</u> (Cargo Bay Stack)		

FUNCTION: To provide telemetry information of the camera status during the Vertical Blanking Interval.

Item	Failure Mode	Failure Cause	Failure Effect on End Item	Failure Detect Flight/Ground	Correct Action Time Avail/Req	Crit'y	Hazards/Remarks
ITVC 1.4	Loss of camera telemetry information on lines 11, 12, 13, 14, 16, 17, 18 and 19 of the Vertical Blanking Interval.	A4 Cmd Dec/Tlm Enc Lens A2 Tlm A6 Video Processor	(1) Loss of telemetry information but camera is still fully functional. (2) Loss of temperature telemetry on L18 will be misinterpreted as an over temperature and cause an alarm to be issued. <u>Worst Case</u> Loss of over temperature indication which could result in loss of the camera and inability to verify payload bay latch closure.	FLT (1) Status lights for ALC/Gamma on A7 panel are not illuminated when commanding camera. (2) Over temperature condition and indication of 75°C will appear on CTVM when this camera is selected. (3) Over temperature flag is issued by RCU. GND Same as flight but indication will be on GSE equipment.	None	3/IR	