SUBSYSTEM CCTV
UNIT TVM (TV MONITOR)
ASSY. DWNG. 2291505-502/503
QUANTITY/LOCATION TWO/AFT CONSOLE IN CREW CABIN

SHUTTLE CCTV FAILURE MODE
& EFFECTS ANALYSIS

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FUNCTION: To provide viewable video in cabin for crew to verify picture quality, scene, payload and RMS operations, VTR record and playback, and to display various types of camera data.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
7.1.1	Screen dark, no video visible	1. Loss of high voltage A5 BD 2. Loss of vertical sweep A2 BD 3. Loss of horizontal sweep A3 BD 4. Broken CRT A6 assy. 5. Open CRT heater A6 assy. 6. No 28V primary power A7 BD 7. Loss of low voltage power supply	No viewable video, but does not affect output to VTR. Not usable for any TVM function Worst Case: Loss of display of aft bulkhead cameras' video required to verify PLB door aft bulkhead latches are closed.	Visual, all failure detection is in flight. There is no direct detection means on the ground. Indirect means could be: 1. Conversation with crew 2. Point cabin TVC at monitor	Switch to other TVM	3/IR	