

SUBSYSTEM CCTV
 UNIT NYC/MLA
 ASSY. DRNG. 2294B19-504, 500/2307000-503
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

SHUTTLE CCTV FAILURE MODE
 & EFFECTS ANALYSIS

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

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/MED	CRIT'Y	HAZARDS/REMARKS
2.3.0	No output signal to the VSU. Neither video or synchronization information is present.	:TVC :A1 Sync Generator. : Clock Divider Chain. : :A2 Camera Timing Logic. : :A4 Sync Formatter. : Video Output Drive. : :A5 Power ON/OFF Switching : Input Voltage Pre-regu- : later. : Output Voltage : Regulators. : :A7 DC-DC Converter. : Primary Oscillator : Driver. : Secondary Rectifiers/ : Filters. : :A13 Master Oscillator.	:Loss of camera :output depicting :scene information :within FOV of lens :assembly. : :Worst Case: :Loss of mission :critical video.	:FLT : (1) No visual dis- :play of scene in- :formation on the :TVM. : (2) No status :status back to the A7: :panel lites for :ALC/GAMMA. : :GND : (1) No visual dis- :play 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 : :None. : (Usage of EVA :tools is :available.)	:2/2 : :3/1R	
			:Worst Case (if :video is not :mission critical, :for B & C cameras :only): Unable to :verify PIB door :aft bulkhead :latches are :closed.	:Same as above			

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 ATTACHMENT
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