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SHUTTLE CCTV FAILURE MODE
 & EFFECTS ANALYSIS

SUBSYSTEM CCTV
 UNIT Pan/Tilt Unit (PTU)
 ASSY. DWSG. 2294822-502, 503, 504
 QUANTITY/LOCATION 1/MULTIPLE (CARGO BAY STACK)

FUNCTION: The limit switch will inhibit further movement of the PTU in the Pan or Tilt direction.

ITEM	FAILURE MODE	FAILURE CAUSE	FAILURE EFFECT ON END ITEM	FAILURE DETECT FLIGHT/GROUND	CORRECT ACTION TIME AVAIL/REQ	CRIT'Y	HAZARDS/REMARKS
2.4.4.2	Pan or Tilt limit switch falls in a shorted mode.	Mercury relay falls shorted.	Pan or Tilt movement will be inhibited in CM or CCM direction of stopper motor. Worst Case: Loss of mission critical video.	FLT/GND (1) Scene information from the camera mounted on the PTU, as observed on the TVM, will be stationary when commanded in one of the Pan or Tilt directions. (2) Angle readout on the TVM will not increment for one of the Pan or Tilt commands.	None	2/2	
			Worst Case (if video is not mission critical, for B & C cameras only): Unable to verify PLB door aft bulkhead latches are closed.	Same as above	None. (Usage of EVA tools is available.)	3/18	