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|-------------------|-------------------------------|---------------------------|-------------|-------------|
| SUBSYSTEM         | CCTV                          | SHUTTLE CCTV FAILURE MODE | PREPARED BY | Ted Sawirka |
| UNIT              | TVM (TV MONITOR)              | & EFFECTS ANALYSIS        | DATE        | 8-22-86     |
| ASSY. DMG.        | 2291505-502/503               |                           | REVISED     | 0/10/87     |
| QUANTITY/LOCATION | THD/AFT CONSOLE IN CREW CABIN |                           |             |             |

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 |
|--------|-------------------------------------|--------------------------------------|--|---|--|--------|-----------------|
| 7.1.10 | Screen bright video faintly visible | Attenuation of video signal<br>AI 00 | Difficult to discern some picture content. Does not affect output to VTR   | Visual, all failure detection: is in flight. There is no direct detection means on the ground. Indirect means could be: | May require darkening of the cabin or switch to other TVM. | J/IR   |                 |
|        |                                     |                                      | Worst Case:<br>Loss of display of aft bulkhead cameras' video required to verify PLB door aft bulkhead latches are closed. | 1. Conversation with crew<br>2. Point cabin BYC at monitor:   |  |        |                 |