



SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM :EPD&C - AUXILIARY PWR FMEA NO 05-6N -2059 -1 REV:08/02/90

(E) POSSIBLE LOSS OF MISSION, CREW AND VEHICLE AFTER SECOND FAILURE (LOSS OF REDUNDANT TANK/FUEL LINE HEATERS) DUE TO FUEL (HYDRAZINE) FREEZING AND LINE RUPTURE UPON THAWING. ATTITUDE THERMAL CONDITIONING COULD BE USED TO PREVENT FREEZING.

DISPOSITION & RATIONALE:

(A)DESIGN (B)TEST (C)INSPECTION (D)FAILURE HISTORY (E)OPERATIONAL USE:

(A-D) DISPOSITION AND RATIONALE

REFER TO APPENDIX B, ITEM NO. 1 - HYBRID DRIVER

(B) TEST

APU 1/2/3 HEATER TEST BY COCKPIT COMMAND PERFORMED IN FLIGHT EVERY FLOW OR AFTER CIG RETEST.

(E) OPERATIONAL USE

FIRST FAILURE - MANUALLY SWITCH TO ALTERNATE HEATER. SECOND FAILURE- ATTEMPT ATTITUDE THERMAL CONDITIONING.