

FMEA
EMU FAILURE MODE, EFFECT ANALYSIS

01/02/90 SUPERSEDES / /

ANALYST:

Page: 1
Date: 03/09/90

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRII	REMARKS/ HAZARD	REF
ELECTRICAL SIGNALS HARNES, ILEN 152 ----- SV700152-3 (1)	Electrically connects DCN to the CMB to provide status input signals, digital display signals, +5V, +10V, +/-14.2V power; WITE signals, motor tach signal. Electrically connects the DCN to the EVC to provide connections for hardline signals, mic signals, mic power, earphone signals and ECG signals.	152PM20: Electrical open or short, one or more display data (ASCII) lines. CAUSE: Cable chaffing against connector shell or shield. Improper connector strain relief. Faulty connection between connector and lead wires.	PREEVA EVA	EMU I/EM: Electrical open or short in one or more of the ASCII data lines from the CMB. CPE INTERFACE: All characters may not be properly displayed. Display may be illegible. Crew may not be able to read display properly. MISSION: None. CREW/VEHICLE: None for single failure. Possible loss of crewman with loss of ECC, oxygen or low vent flow.	FLIGHT: Yes. Would be detected during periodic status checks or other failure display activation. GROUND: Yes. FEMU-R-001, Para. 7.3.3.2.1.1. 19, Transducer and DCN Gage Calibration Check.	None. TIME AVAILABLE: N/A TIME REQUIRED: N/A	3/1R A-PASS B-PASS C-PASS	Redundant path to the ventilation, CO2 removal, or pressurization components. In event of a short, each ASCII line is protected by a 350 ohm resistor in the CMB.	None.