

FMEA
 EMU FAILURE MODE, EFFECT ANALYSIS

DOCUMENT NO. 0111-211630
 RELEASE DATE 06/14/95
 PAGE 16 OF 40

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REC
Heater Assembly 0106-211542 -01 (1)	Provides for active glove finger tip heating.	10GFM24; Heater short. CAUSE: Short in wiring or connector, degraded insulation or contamination.	EVA	END ITEM: Loss of electrical power to thermofoil heaters and excessive current draw. GFE INTERFACE: Loss of active heating in glove fingertip area and excessive current draw. MISSION: None with heater short. None with subsequent fuse failure to open. None with additional failure of one thermostat. CREW/VEHICLE: None with short of heater. None with subsequent failure of fuse to open and additional failure of one thermostat. Loss of crewman with loss of second thermostat causing battery self heating and cell rupture or explosion.	FLIGHT: Tactile. GROUND: Yes. Resistance Check.	None. TIME AVAILABLE: N/A TIME REQUIRED: N/A	3/1R A - Pass B - Pass C - Pass	A 1.5 amp fuse is provided to preclude current overload. Two redundant thermostats are provided to preclude over temp conditions of battery.	