

FMEA
EMU FAILURE MODE, EFFECT ANALYSIS

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12/24/95 SUPERSEDES 12/24/94

ANALYST:

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
DISPLAY AND CONTROLS ELECTRONICS, ITEM 350 SV792291-27 (1)	Provides current limiting for EVC, feedwater solenoid and CLIV solenoid power. Provides optical isolation and discrete signal conditioning for CVS input discretes and EVC tone discretes. Contains battery current and voltage sense circuits, DCM display, and provides secondary power to DCM display, CVS, and sensors.	350PM24: Electrical short (input to output) in CLIV current limiter. CAUSE: Electronic component failure.	PREEVA EVA	END ITEM: Loss of over current protection for DCM for short circuits in CLIV power circuits. GFE INTERFACE: None for single failure. Subsequent failure could cause EMU power loss by fusing EMU power return P.C. trace in DCM. MISSION: None for single failure. Terminate EVA for subsequent failure (short) that results in EMU power loss. CREW/VEHICLE: None for single or double failure. Possible loss of crewmen with loss of SOP.	FLIGHT: No. GROUND: None.	None. TIME AVAILABLE: N/A TIME REQUIRED: N/A	3/1R A-PASS B-PASS C-PASS	The redundant paths are the electrical components and the SOP. Circuit breakers (current limiters), are standby redundant.	None.