

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
DCM ELECTRONIC ASSEMBLY, ITEM 350 ----- SV792291-27 (1)	Provides current limiting for EVC, feedwater solenoid and CLIV solenoid power. Provides optical isolation and discrete signal conditioning for CMS input discretes and EVC tone discretes. Contains battery current and voltage sense circuits, DCM display, and provides secondary power to DCM display, CMS, and sensors.	350FM16: Battery current sense circuit output drifts low.  CAUSE: Electronic component failure or broken connection.	PREEVA  EVA	END ITEM: Displayed battery current lower than actual current.  GFE INTERFACE: Battery spare hour accumulator reads low. Fails to indicate high current draw for subsequent failure.  MISSION: None for single failure. False indication that additional EVA time is available. If a subsequent short occurred which increased the current draw, no warning message would be issued.  CREW/VEHICLE: None for single (current sensor) or double (high current draw which could prematurely deplete battery) failure. Possible loss of crewmen with loss of SOP.	FLIGHT: Yes. Battery failure would cause loss of fan and comm.  GROUND: Yes. FEMU-R-001, Para. 7.3.3.2.1.1.7, Transducer and DCM and Gauge Check.	None,  TIME AVAILABLE: N/A  TIME REQUIRED: N/A	3/R  A-PASS B-PASS C-PASS	Redundant paths are the battery power circuit and the SOP. The CWS issues a fault message when battery voltage drops below 15.7 VDC.	None.