CIL

EMU CRITICAL ITEMS LIST

Page 1 5/30/2002 SUPERSEDES 12/31/2001

			5/30/2002 SUPERSEDES 12/31/2001		Date: 3/27/2002	
NAME P/N QTY	CRIT	FAILURE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE		
		330FM11				
COMMON MULTIPLE CONNECTOR, ITEM 330 	2/2	Shorted, battery recharge line. (J1-1). Contamination, cable chafing.	END ITEM: High battery power drain if preEVA. (Airlock power supply shutdown if postEVA).	A. Design - The battery recharge line is automatically opened connector when the connector halves are separated. the back of the connector are brush conformal coats of contamination bridging conductors and causing a electrical leads are physically protected from Medicover and are bundled together and laced. Short lielectrical lines prevent mutual chafing.	Electrical connections at ed to minimize the possibility n electrical short. The hanical damage by a metal	
			GFE INTERFACE: Unable to recharge EMU battery with affected DCM. Battery discharges until the DCM current shunt opens.	B. Test - Certification Test - Certified for a useful life of 15 years. C. Inspection - The DCM External Wiring Assembly (SV774161-1) confinspected for uniformity and completeness of cover 150. The DCM External Wiring Assembly is visually per Operation 170.	age per step 10 of Operation	
			MISSION: Terminate EVA. Loss of use of one EMU. CREW/VEHICLE: None. TIME TO EFFECT /ACTIONS: Seconds. TIME AVAILABLE: N/A TIME REQUIRED: N/A REDUNDANCY SCREENS: A-N/A B-N/A	D. Failure History - None. E. Ground Turnaround - Tested for non-EET processing per FEMU-R-001, Batt. Continuity Verification. FEMU-R-001 Para 8.2 EMU P. processing. F. Operational Use - Crew Response - Pre/PostEVA: Trouble shoot problem, if no success available. EMU no go for EVA. Training - Standard EMU training covers this failu Operational Considerations - EVA checklist procedu and systems operational status prior to EVA. Fligh criteria related to battery power.	reflight KSC Checkout for EET consider use of third EMU if re mode. res verify hardware integrity	

EXTRAVEHICULAR MOBILITY UNIT SYSTEMS SAFETY REVIEW PANEL REVIEW

FOR THE

I-330 COMMON MULTIPLE CONNECTOR

CRITICAL ITEM LIST (CIL)

EMU CONTRACT NO. NAS 9-97150

Prepared by:	1 lema	u, f. 3/2/0-	
H	S - Project Eng	ineering	

Approved by: NASA - SSA/SSM

NASA - Program Manager Son Johnson