CIL

Page 1 EMU CRITICAL ITEMS LIST 5/30/2002 SUPERSEDES 12/31/2001

EMU CRITICAL ITEM	S LIST	5/30/2002 SUPERSEDES 12/31/2001			Date 2/07/0000	
					Date: 3/27/2002	
NAME		FAILURE				
P/N	CDIM	MODE &		DAMIONALE EOD ACCEDMANCE		
QII	CKII	CAUSES	FAILURE EFFECI	RATIONALE FOR ACCEPTANCE		
		330FM15				
COMMON MULTIPLE CONNECTOR, ITEM 330SV778872-26 (1)	CRIT	330FM15 Shorted EMU voltage sense line.  Contamination, causing shorted wire or connection.	END ITEM: Excessive current drawn from vehicle.  GFE INTERFACE: Excessive current will be drawn from vehicle. Current limiter will open vehicle power circuit. EMU will not operate from vehicle power.  MISSION: EMU will not operate from vehicle power. Loss of use of one EMU.  CREW/VEHICLE: None.  TIME TO EFFECT /ACTIONS: Seconds.  TIME AVAILABLE: N/A	A. Design - Electrical connections are brush conformal coated to minimi contamination bridging conductors and causing an electrical electrical leads are protected from mechanical damage by a together and laced. Short line lengths and bundling of the prevent mutual chafing.  B. Test - In-Process Test - Continuity testing between J1-12 and J1-13 is performed per DCM External Wiring Assembly (SV774161-1) Operation Sheets. specification is 0.160 ohm maximum.  Component Acceptance Test - Not applicable.  PDA Test - Not applicable.  Certification Test - Certified for a useful life of 15 years.  C. Inspection - The DCM External Wiring Assembly (SV774161-1) conformal coainspected for uniformity and completeness of coverage per S 150. The DCM External Wiring Assembly is visually inspected per Operation 170.  D. Failure History - None.  E. Ground Turnaround - Tested for non-EET processing per FEMU-R-001, V1103.02 Orbit	short. The cover and are bundled electrical lines  operation 130 of the Resistance  ting, is visually tep 10 of Operation at final inspection	
			TIME REQUIRED:	001 Para 8.2 EMU Preflight KSC Checkout for EET processing.  F. Operational Use -		
			REDUNDANCY SCREENS: A-N/A B-N/A C-N/A	Crew Response - Pre/PostEVA: Troubleshoot problem, if no su operations. Deactivate airlock power supply, operate EMU on perform battery swap as required.  Training - Standard EMU training covers this failure mode. Considerations - EVA checklist procedures verify hardware i operational status prior to EVA. Flight rules define go/no to SCU power.	battery power, Operational ntegrity and systems	

## 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