CIL

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EMU CRITICAL ITEMS LIST

5/30/2002 SUPERSEDES 12/31/2001

Date: 3/27/2002 NAME FAILURE P/N MODE & OTY CRIT CAUSES FAILURE EFFECT RATIONALE FOR ACCEPTANCE 330FM09 COMMON MULTIPLE 2/2 END ITEM: Shorted A. Design -Electrical connections are conformal coated to minimize the probability of CONNECTOR, ITEM vehicle power High vehicle 330 line. power contamination bridging conductors and causing an electrical short. The electrical leads are protected from mechanical damage by a cover and are bundled consumption. SV778872-26 together and laced. Short line lengths and bundling of the electrical lines (1) Contamination, prevent mutual chafing. cable chafing. GFE INTERFACE: The vehicle power supply
is current
Certification Test Certified for a useful life of 15 years. amps. Discharge EMU C. Inspection power supply. The DCM External Wiring Assembly (SV774161-1) conformal coating, is visually inspected for uniformity and completeness of coverage per step 10 of Operation MISSION: 150. The DCM External Wiring Assembly is visually inspected at final inspection Loss of use of per Operation 170. one EMU. D. Failure History -None. CREW/VEHICLE: None. E. Ground Turnaround -Tested for non-EET processing per FEMU-R-001, V1103.02 Orbiter Checkout. FEMU-R-TIME TO EFFECT 001 Para 8.2 EMU Preflight KSC Checkout for EET processing. /ACTIONS: Seconds. F. Operational Use -Crew Response - Pre/PostEVA: Trouble shoot problem, if no success, continue EVA operations. Deactivate airlock power supply, operate EMU on battery power, TIME perform battery swap as required. AVAILABLE: Training - Standard EMU training covers this failure mode. Operational N/A Considerations - EVA checklist procedures verify hardware integrity and systems TIME REQUIRED: operational status prior to EVA. Flight rules define go/no go criteria related N/A to SCU power. REDUNDANCY SCREENS:

> A-N/A B-N/A C-N/A

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

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