EMU CRITICAL ITEMS LIST

CIL

5/30/2002 SUPERSEDES 12/31/2001

Date: 3/27/2002 NAME FAILURE P/N MODE & OTY CRIT CAUSES FAILURE EFFECT RATIONALE FOR ACCEPTANCE 105FM04 HELMET ASSEMBLY, 2/2 END ITEM: A. Design -Loss of attachment, Loose Fresnel
Fresnel Lens. Lens in helmet. GFE supplied. The fresnel lens is a commercially available item. It is ITEM 105 flexible and requires no adhesive to attach to the helmet shell. Prior to installation, that area of the helmet is cleaned with distilled or de-ionized A/L 9672-03 (1) water. Defective GFE INTERFACE: material or Unable to use contamination. fresnel lens B. Test to read DCM Certification -The fresnel lens was installed in the helmet and successfully passed S/AD shock, display. vibration and acceleration requirements (Ref. HS TER's 3067, 3048, 3043 and MISSION: 3076). Terminate EVA. C. Inspection -CREW/VEHICLE: None. None. D. Failure History -TIME TO EFFECT None. /ACTIONS: Seconds. E. Ground Turnaround -The Fresnel lens is a crew option item. If required it will be inspected for TIME non-EET processing per FEMU-R-001, Pre-Flight External visual inspection. None AVAILABLE: N/A for EET processing. TIME REQUIRED: F. Operational Use -N/A Operational Use Crew Response -

Pre/post-EVA: Troubleshoot problem.

Special Training -REDUNDANCY

No training specifically covers this failure mode. SCREENS:

Operational Considerations -A-N/A

EVA checklist procedures verify hardware integrity and systems operational B-N/A

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C-N/A status prior to EVA.

## EXTRAVEHICULAR MOBILITY UNIT SYSTEMS SAFETY REVIEW PANEL REVIEW

FOR THE

I-105 HELMET ASSEMBLY

CRITICAL ITEM LIST (CIL)

EMU CONTRACT NO. NAS 9-97150

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12 Jan 6/04/02

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