

NAME P/N QTY	CRIT	FAILURE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
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108FM01

D. Failure History -

I-EMU-108-001 (07-29-80). EVVA Shell cracked during fit check. Changed shell material from polysulfone to polycarbonate.

B-EMU-108-A005 (12/15/92) - EVVA shell exhibited a crack at the right side plate subassembly interface when the stainless steel side plate was clamped up against the curved EVVA shell, the tip of the plate created a concentrated load, initiating the crack in the shell. The right side plate height will be shortened by 0.312 inches to eliminate any interference with the EVVA.

E. Ground Turnaround -

Inspected for non-EET processing per FEMU-R-001, Pre-Flight visual inspection. None for EET processing. Additionally, every 4 years from date of original EVVA and helmet interface the EVVA is removed from the helmet and completely inspected for structural integrity/material damage.

F. Operational Use -

Crew Response -

Pre/post-EVA:

Troubleshoot problem, if no success and visors required but cannot be positioned, terminate EVA operations.

EVA: If visors required and cannot be positioned, terminate EVA.

Special Training -

No training specifically covers this failure mode.

Operational Considerations -

EVA checklist procedures verify hardware integrity and systems operational status prior to EVA.

EXTRAVEHICULAR MOBILITY UNIT
SYSTEMS SAFETY REVIEW PANEL REVIEW
FOR THE
I-108 EXTRAVEHICULAR VISOR ASSEMBLY (EVVA)
CRITICAL ITEM LIST (CIL)

EMU CONTRACT NO. NAS 9-97150

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