CIL

EMU CRITICAL ITEMS LIST

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EMU CRITICAL ITEMS LIST		5/30/2002 SUPERSEDES 12/31/2001			Date: 4/24/2002
NAME P/N QTY	CRIT	FAILURE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE	
		105FM05			
HELMET ASSEMBLY, ITEM 105	EM 105 L 9672-03	Condensation on helmet bubble.	END ITEM: Fogging of visual area.	A. Design - A GFE supplied anti-fog film is applied to the visual area of the helmet by the crewman prior to EVA. The application procedure has been proven to be effective	
A/L 9672-03 (1)			visuai area.	and is part of the crewmember's pre-EVA check list.	f the crewmember's pre-EVA check list. at the rear of the helmet is designed to direct vent flow over the
		Inadequate anti-fog film.	GFE INTERFACE: Reduced	visual area and prevent fogging.	
			visibility.	B. Test - Acceptance: Anti-fog is GFE.	
			MISSION: Terminate EVA due to helmet	PDA: None.	
			fogging.	Certification:	
			CREW/VEHICLE: None.	None.	
			TIME TO EFFECT	C. Inspection - After completing pre-EVA checklist, crewmember must compl verifying application of anti-fog.	ete a second checklist
			/ACTIONS: Minutes.	D. Failure History - I-EMU-105-C001 (10/16/96) - During certification testing	of "Klear Vue"
			TIME AVAILABLE: N/A	permanent antifog coating, approximately 50% of inside vi fogging. "Klear Vue" coating has been eliminated as a ca antifog coating.	sual surface had
			TIME REQUIRED: N/A	E. Ground Turnaround - None. However, crewmembers are trained in the applicatio crew familiarization training conducted in the ETA chambe	
			REDUNDANCY SCREENS: A-N/A	F. Operational Use - Operational Effect of Failure:	
			B-N/A C-N/A	Condensation on Helmet bubble results in poor vision for Crew Action: Turning toward sun may warm the Helmet sufficiently to evaluation. If this fails area helmet purposed to the condensation of the fails area helmet purposed to the condensation.	aporate the
				condensation. If this fails, open helmet purge valve, te	rminate 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