

EMU FAILURE MODE, EFFECT ANALYSIS

01/02/90 SUPERSEDES / /

ANALYST:

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NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRT	REMARKS/ HAZARD	REF
WATER RELIEF VALVE, ITEM 142 ----- SV769403-3 11)	Relieves reserve feeder to the primary feeder line when the primary feeder tank is empty. The valve opens at 4-5 psid.	1007902: Fails to open. CAUSE: Failure, diaphragm sticks to seat, plunger jams.	PREEVA EVA	END ITEM: Blocked water flow path through valve seat. Unable to discharge reserve tank feeder. GFE INTERFACE: Unable to supply an additional 30 minutes of feeder upon depletion of the primary water tank during EVA. Possible helmet fogging. MISSION: None for single or double (external water leak) failure. CREW/VEHICLE: None for single or double failure. Possible loss of crewman with loss of SOP.	FLIGHT: No. GROUND: Yes. FEMU-R-001, Para. 7.3.3.2.1.1. 16 Reserve to Primary Water tank Leakage Verification by Discharge.	None. If no feeder is available the SOP can be activated by opening the purge valve to obtain cooling/ defog. TIME AVAILABLE: N/A TIME REQUIRED: N/A	3/1R A-PASS B-N/A C-PASS	Redundant path is the rest of the water system and the SOP. Water relief valve is standby redundancy. The "B" screen does not apply.	None.