

FME
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	CRIT	REMARKS/ HAZARD	REF
COMBINATION PURGE VALVE, ITEM 105 A/L 9819-07 (1)	Provides for emergency purging of the helmet during EVA if the coolant system or ventilation system becomes inoperative, or if helmet is fogged.	105FN06: Combination purge valve will not open. CAUSE: Contamination; button damaged; spring broken, defective O-ring, gasket, screw.	PRE-EVA EVA POST-EVA	END ITEM: Unable to open CPV. GFE INTERFACE: Unable to provide emergency O2 flow and/or vent flow cooling, defogging, and CO2 washing across face. MISSION: None. CREW/VEHICLE: None for failure of CPV. Loss of crossover with loss of 314 purge valve.	FLIGHT: Yes. Secondary. GROUND: Yes. 16MU-3-001, Para. 7.1.7.6.3.7 CPV Torque Check.	Activate 314 purge valve. Return to airlock. TIME AVAILABLE: Minutes. TIME REQUIRED: Minutes.	3/12 A-PASS B-N/A C-PASS	Redundancy is the 314 purge valve and the PESS. The "B" screen is N/A because the CPV is a standby redundancy.	None.

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