

01/02/90 SUPERSEDES / / ANALYSIS:

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
COOLANT RELIEF VALVE, ITEM 172 54784985-1 (1)	Provides condensate relief during EVA in case of a failed closed coolant isolation valve (171).	172IN02: fails to open.  CAUSE: Blowthrough sticks to seat; plunger jams.	PREEVA  EVA	END ITEM: Blockage of water flow path through valve.  GFE INTERFACE: None for single failure if the 171 valve also fails closed, then excess condensate will carry over into the vent loop.  MISSION: None for single failure. If a second failure occurred (the 171 valve failed closed), water carryover into the vent loop would cause termination of EVA.  CREW/VEHICLE: None for single or double failure. Possible loss of crew with loss of SOP.	FLIGHT: No.  GROUND: Yes. FEMU-B-001, Para. 7.3.3.2.1.1. & Coolant Isolation System Performance.	None,  TIME AVAILABLE: N/A  TIME REQUIRED: N/A	3/10  A-PASS B-N/A C-PASS	The 171 valve and the SOP are the redundant paths. The Item 172 valve is standby redundant to the 171 failed closed mode.	None.

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