

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: MAIN PARACHUTE
ASSY P/N: SFP102420007

SYSTEM: CREW ESCAPE SYSTEM
SUBSYSTEM: PERSONAL PARACHUTE ASSEMBLY

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION		CORRECTIVE ACTION (TIME AVAILABLE: TIME BY QUANTITY)	CRIT. R/F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE	FLIGHT	GROUND			
4.4 REEPING RINGS SN 1183420001	To maintain reepling line orientation around the lower circumference of main canopy	4.4.1 Mode: Reepling ring separates from main canopy Cause: • Defective material • Excessive loading	Descent	Excessive opening loads of five or more concurrent rings fail resulting in possible main chute damage	N/A*	Possible loss of life if more than five rings fail	Visual	None	J/N		
4.5 REEPING CUTTERS	To cut reepling line at predetermined time for full main canopy deployment	4.5.1 Mode: Reepling cutter activation failure or reepling cutter activates late Cause: • Defective material • Free part failure	Descent	Main chute remains reefed if second cutter fails	N/A*	Possible loss of life if second reepling cutter also fails	Visual	None	J/N		

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ATTACHMENT -
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