

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: HELMET
ASSY P/N: 109596-02

SYSTEM: Crew Escape System
SUBSYSTEM: Launch Entry Seat

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION <small>PERCENT</small> <small>WARNING</small>	CORRECTIVE ACTION <small>TIME AVAILABLE</small> <small>TIME REQUIRED</small>	CRIT. I/O/F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
1 & 1 Earphone	Provides the audio during crewmember communications	1.8.1.1 Earphone failure Cause: a defective material	Launch, Entry, Abort	Unable to receive communications if second earphone fails	N/A*	Unable to receive communications if second earphone fails	No reception	Use hand signals or write on kneeboard minutes/seconds	3/R	
1 & 2 Microphone	Provides for the only way of voice transmission in the helmet	1.8.2.1 Microphone failure Cause: a defective material	Launch, Entry, Abort	Unable to transmit communications if second microphone fails	N/A*	Unable to transmit communications if second microphone fails	No transmission	Use hand signals or write on kneeboard minutes/seconds	3/R	
1 & 1 Pressure Sensitive Comm. Switch	Provides shut-off to microphone during exhalation	1.8.3.1 Switch fails off Cause: a contamination or piece part failure	Launch, Entry, Abort	Unable to transmit communications	N/A*	Unable to transmit communications	No transmission	Use hand signals or write on kneeboard minutes/seconds	3/R	
		1.8.3.2 Switch fails open Cause: a contamination or piece part failure	Launch, Entry, Abort	Continuous transmission	None	None	Excessive noise	None	N/A	

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 ATTACHMENT
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