

# FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: EGRESS, INFLATION  
 ASSY P/N: SSO2300000-201

SYSTEM: CREW ESCAPE SYSTEM  
 SUBSYSTEM: AIRCRAFT, INFLATION

REV: 1  
 DATE: 10/15

NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION		CORRECTIVE ACTION (SEE APPROVED DRAWING)	LIFE TIME	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE	FLIGHT	GROUND			
14 (Continued) Inflation Assembly	Pyrotechnic activated puncture CO <sub>2</sub> bottle that inflates upper chamber upon water entry and releases upper closure	1.4.2 Mode: Puncture CO <sub>2</sub> bottle prematurely  Cause: • Vibration	Launch/ Landing	Premature inflation of one chamber of the bottle	N/A*	Possible loss of component of IED 1 or oral inflation assembly failed	None		Deflate and orally inflate if chamber where needed  Hours  minutes	EDM	The pyrotechnic pack would not allow the inflator to inflate and be released from the pack
15 Oral Inflation Assembly	To assist inflation of bottle	1.5.1 Mode: Valve fails closed  Cause: • Contamination • Galled • Leaked ring	Recovery	Unable to inflate bottle	N/A*	Possible loss of component of IED 9 and manual inflation fails	Visual		Attempt to orally inflate if needed only  Hours  minutes	EDM	As subject is most likely provided down to allow pressure to decrease

SSO2300  
 ATTACHMENT  
 PAGE 21 OF