

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE EMERGENCY OXYGEN SYSTEM
 ASSY P/N 8725036

SYSTEM CREW ESCAPE SYSTEM
 SUBSYSTEM EMERGENCY OXYGEN SYSTEM

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 DATE

NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION (EICAS) (EICAS)	CORRECTIVE ACTION (TIME AVAILABLE) (TIME REQUIRED)	CRIT M.F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
5 3 OXYGEN GAUGE #725036		5 3 1 Mode: Rupture Cause: • Charge malfunction	Post flight	Loss of available oxygen as reducer fails open and relief valve both closed	N/A*	Loss of 10 crewmembers of 10 minutes oxygen supply is not available	None	None	1/1R	
5 4 REDUCE PRESSURE VALVE #725036	Regulates oxygen from 2100 psi to 70 psi Relief valve provides pressure relief at 150 psi	5 4 1 Mode: Relief valve fails open Cause: • Contamina- tion • Piece part failure • Excessive material	Post flight	Excessive consumption of oxygen supply	N/A*	Loss of 10 crewmembers of 10 minutes oxygen supply is not available	Audible noise (from relief valve)	None	1/1	• Excessive will pressure rupture
		5 4 2 Mode: Relief valve closes Cause: • Piece part failure • Contamina- tion	Post flight	Loss of full (or all) available oxygen if second reducer fails	N/A*	Possible loss of 10 crewmembers of 10 minutes oxygen supply	None	None	1/1	

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 ATTACHMENT
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