

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: EMERGENCY OXYGEN SYSTEM
ASSY P/N: 8725036

SYSTEM: CREW/SCAPE SYSTEM
SUBSYSTEM: EMERGENCY OXYGEN SYSTEM

REV: 001
DATE: 01/14/03

NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION FLIGHT GROUND	CORRECTIVE ACTION TIME AVAILABLE TEAM REQUIRED	CREE H/E	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
5 0 EMERGENCY OXYGEN SYSTEM 5 1 OXYGEN CYLINDER 8725036	Contains 10 minute supply of 100% oxygen at 2100 psi	5 1 1 Mode: Rupture Cause: • Material failure	Pad egress	Loss of full or all available oxygen	N/A*	Loss of crewmembers due to detection of available oxygen	None	None	01	The cylinders are non-detonatable, the cylinders will not explode by itself
		5 1 2 Mode: Internal leakage Cause: • Defective seal	Pad egress	Loss of available oxygen in one or both oxygen cylinders	N/A*	Loss of crewmembers if oxygen is not available in one or both cylinders	None	None	01	
5 2 OXYGEN HOSES 8725036	Supply oxygen from oxygen cylinders to suit manifold and transmit manifold to the isolate regulator at 70 psi	5 2 1 Mode: Rupture Cause: • Material failure • Overstress	Pad egress	Loss of available oxygen if regulator fails open and/or closed fails closed	N/A*	Loss of crewmembers if regulator fails open and/or closed valve fails closed	Visual	None	01R	The hoses are equiped with a PBE cutting

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ATTACHMENT 1
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