

PAGE		NAME, QTY AND DRAWING REF DESIGNATION	QTY	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	MATERIALS FOR REFERENCE
NO	REV					
0-2.4		VALVE FLAPPER YN261700-01 or YN26100-01	2/00	<p><u>Failure Mode:</u></p> Leakage between flapper and seat <p><u>Cause:</u></p> Foreign matter between flapper and seat	Orifice leakage from bag into cuff and possible leakage into OMC. Leakage into orbiter when detaching DUCO.	1) Design The valve flapper used with the valve seat is a one way valve allowing it [orline] hold the bag and preventing flow back out. The flapper is held from silicone rubber to provide the necessary sealing capability. 2) Test a) Acceptance The valve flapper is leak tested in the MCD during PDA (at 2 psig) and at PIR (at 2 psig). b) Certification The OMC was certified by analysis based on review of drawing YN261-0000-01. c) Burnthrough Used DUCO's are disposed of. Unused OMC's are leak tested at PDA at 2 psig, during which a defective valve would be discovered. 3) Inspection a) Manufacturing The valve flapper is a vendor item and undergoes a 100% visual inspection upon receipt. b) Inspection Unused DUCO's undergo visual inspection at PDA. 4) Failure History None 5) Operational Use a) Effects of Failure Isolation of TOR (short) may be necessary. b) Crew Action Determine extent of problem; continue OMC or return to orbiter. c) Crew Training Orientation includes discussion of possible failure, effect on PMS, possible need on board. d) Mission Constraints None e) In-flight Checks None

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