

LINE NO.	ITEM NO.	NAME AND DESCRIPTION	QUANTITY	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	REVISIONS FOR ACCEPTANCE
7.20		FLANGED ADAPTER (EMU) (EMU) (EMU)	2718	<p>Failure Mode: Leakage between adapter and valve seat</p> <p>Event: Foreign matter in parts burrs, flash, or nick on adapter or valve seat</p>	<p>Leakage into cuff with possible leakage into EMU.</p>	<p>1) Design The Flanged Adapter provides the structure to attach and seal the valve seat and in the new way valve to the bag. The Flanged Adapter may be molded polyurethane or machined Delrin. The molded adapters are first tested to the bag, the machined adapters are adhesive bonded.</p> <p>2) Test a) Acceptance The Flanged Adapter is leak tested in the DUC during PIA (at 2 psi) and at 21A (at 2 psi).</p> <p>b) Specification The DUC was certified by analysis based on review of drawing (EMU) (EMU) (EMU).</p> <p>c) Turnaround Used DUC's are disposed of. Unused DUC's are leak tested at PIA at 2 psi, during which a defective Flanged Adapter would be discovered.</p> <p>3) Inspection a) Manufacturing The Flanged Adapter undergoes 100% visual inspection.</p> <p>b) Turnaround Unused DUC's undergo visual inspection at PIA.</p> <p>4) Failure History Leakage between the molded Flanged Adapters and valve seats have occurred during PIA testing. Ref. IIR # (EMU) (EMU) (EMU). Corrective action includes: 1) More stringent receiving inspection on molded Flanged Adapters 2) Replacement of defective molded Flanged Adapters by vendor. 3) Removal of defective DUC's. A sealant was added between the valve seat and adapter per (EMU) (EMU) (EMU).</p> <p>5) Operational Use a) Effect of Failure Turnaround of (EMU) (EMU) (EMU) may be necessary.</p> <p>b) Crew Action Determine extent of problem; continue EVA or return to shelter.</p> <p>c) Crew Training Discussion includes discussion of possible failure, effect on PIA, possible need to abort.</p> <p>d) Mission Contingency None</p> <p>e) In-Flight Checklist None</p>

B-2.2