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 CRITICAL ITEMS LIST
 P/N: CHA7/1

NAME P/N QTY	COID	FATIGUE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
RESERVE WATER GAS - ITEM 100 39149502- 24 P1) PC 100-1 "	2/2	DEFORMATION; BLADDER RUPTURE. CAUSE: EXCESSIVE CYCLING, DEFECTIVE MATERIAL, LACK OF FRYTON LUBRICATION.	EMERGENCY WATER LEAKAGE IN THE BLADDER AND CAVITY AND VENTILATION CIRCLES THROUGH THE ITEM 120 & RELIEF VALVE. GYS INTERFACE; FLOODING OF THE PLS ON ADDED GAS LEAKAGE AND VERY EXCESSIVE; LEAKAGE TO COMPLETE THE RECHARGE SEQUENCE. MISSION: LOSS OF USE OF ONE EMU. LEAKAGE TO RECHARGE. ENVIRONMENT: NONE.	A. DESIGN - THE CURRENT DESIGN OVERSEE TO MEMPHRE LATE WHICH ELEMENTS CHARACTERISTICS, ELASTICITY AND ELONGATION CHARACTERISTICS. BLADDER PROCESSING IS CONTROLLED TO PROVIDE UNIFORM PRODUCT PROPERTIES. THE HOUSING CAVITY WALLS CONSIST OF SMOOTH SURFACES. THE BLADDER IS LUBRICATED PRIOR TO BLADDER INSTALLATION. THE SIZE RATIO OF BLADDER TO CAVITY IS APPROX. 0.1 WHICH MINIMIZES BLADDER STRESSING. THE TANK STRUCTURE SUPPORTS THE LOAD WHEN THE INNER PRESSURE IS ABOVE THE GAS PRESSURE. B. TEST - COMPONENT ACCEPTANCE: THE ITEM IS SUBJECT TO LEAKAGE TESTING PER AT-E-110-2 BY PRESSURIZING THE ITEM AND THREE TO PS.S - 15.7 PSID GMP. THE GZ OUTLET IS CONNECTED TO A MOSE AND THE END OF THE MOSE SUBMERGED IN MTD. THERE SHALL BE NO BUBBLES THROUGH A 5 MINUTE PERIOD. A BLADDER COLLAPSE LEAKAGE TEST IS PERFORMED BY PRESSURIZING THE GZ SIDE OF THE BLADDER TO 0.0 - 0.1 PSID GMP. WITH THE MTD SIDE OF THE BLADDER CONNECTED TO A MOSE AND OUTLET OF THE MOSE SUBMERGED IN MTD. THE LEAKAGE SHALL BE LIMITED TO 1 BUBBLE IN 2 MINUTES. THE PRESSURE IS INCREASED TO 15.5 - 15.7 PSID GMP AND THE LEAKAGE SHALL BE THE SAME. PRESSURIZED TIME IS THREE PER THE LOWERED LEPS LIST (3914-67-000). PDA) A BLADDER COLLAPSE LEAKAGE TEST IS PERFORMED PER 3900-40-010 BY PRESSURIZING THE BLADDER GZ SIDE TO 14.4 - 15.7 PSID GMP. WITH THE MTD OUTLETS CONNECTED TO A MOSE AND THE MOSE SUBMERGED IN MTD. THE LEAKAGE SHALL NOT EXCEED 1 BUBBLE IN 2 MINUTES. A WATER CONTAIN LEAKAGE TEST IS PERFORMED BY PRESSURIZING THE WATER CIRCLES TO 10.7 - 10.9 PSID MTD. THE LEAKAGE SHALL NOT EXCEED 4 SCC/MIN AS MEASURED WITH A VOLUMETRIC MEASUREMENT FOR A 60 MINUTE PERIOD.

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