NOTE THIS IS A MAINTENANCE ADVISORY MESSAGE AND HAS NOT, REPEAT HAS NOT, BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSES; ADDRESSES SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO ALL SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THIS MESSAGE;

SUBJECT MAINTENANCE ADVISORY MESSAGE FOR HM-120 UH-1G HYDRAULIC SERVO CYLINDER ASSEMBLY P/N 229-076-099-7 (HM-126-9)

1. PURPOSE OF MESSAGE TO PROVIDE CORRECTING INFORMATION FOR TM 55-165-294-40, CHANGE 5 DATED 19 DEC 79, TO CLARIFY SERVO ASSEMBLY OPERATING CHARACTERISTICS, THEREBY DECREASING CHANCE OF PREMATURE REPLACEMENT, AND TO PROVIDE DISPOSITION INSTRUCTIONS FOR UNSERVICEABLE BEARINGS.

2. CHANGE 5 TO TM 55-165-294-40 WAS ISSUED ON 19 DEC 79, TWO ERRORS HAVE BEEN NOTED AND REQUEST FOR CORRECTION SUBMITTED THROUGH CHANNELS; PENDING PUBLICATION, CORRECTIONS ARE AS FOLLOWS

A, PG 2-24/2-26 ITEM 1, SHIELD, IS SHOWN IN THE REVERSE POSITION; LARGE END SHOULD BE TOWARD RETAINER NUT (2):

B, PG 2-4 INDEX NO. 241 CYLINDER ASSEMBLY FLIGHT CONTROL P/N 229-076-036-7, ADD NOTE IN PARENTHESES (REWORK TO 229-076-099-7), THE REWORK SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH INSTRUCTIONS ON PG 2-17 OF CHANGE 5;

3. THE NORMAL OPERATING CHARACTERISTICS OF THE 229-076-099-7 SERVO ASSEMBLY DIFFER FROM THOSE OF THE 229-076-036-7 AND ITS PREDECESSORS; TO PRECLUDE PREMATURE REMOVAL OF THE 099-7 ASSEMBLY, REMOVAL DECISION SHOULD CONSIDER THE FOLLOWING

A, THE 229-076-099-7 DOES NOT CONTAIN THE UNIBALL BEARING WHICH REQUIRES FISH-SCALE MEASURED TORQUE ADJUSTMENT; THE 099-7 ASSEMBLY INCORPORATES A ONE PIECE, SELF-LUBRICATING BEARING WHICH IS ADJUSTED AT MANUFACTURE; BEARING TENSION ADJUSTMENT IS NOT REQUIRED (AND CANNOT BE MADE) IN THE FIELD; TORQUE APPLIED TO THE UPPER AND LOWER
THREE RULNEA1722 UNCLAS
BEARING RETAINING NUTS SECURES THE BEARING BUT DOES NOT AFFECT THE TENSION ON THE ASSEMBLY.

B: THE 299-7 ASSEMBLY WITH THE SELF-LUBRICATING BEARING WILL HAVE MORE ROTATIONAL FREEDOM AT THE SUPPORT BEARING. THE BEARING IS DESIGNED TO GIMBAL FREELY, THIS APPARENT CONFLICT WITH THE CHARACTERISTIC TIGHTNESS OF THE 039-7 SERVO ASSEMBLY WITH THE UNIBALL SHOULD NOT ARBITRARILY BE INTERPRETED AS AN EXCESSIVELY WORN BEARING. EXCESSIVE WEAR OF THE KSP6299-1 SELF-LUBRICATING BEARING IS INDICATED BY AXIAL PLAY OF THE BEARING WITHIN ITS CASING AND IS NOT CONSIDERED EXCESSIVE UNTIL FEEDBACK IS FELT IN THE CONTROLS. WEAR LIMITS WOULD NOT NORMALLY BE REACHED IN LESS THAN 1500 HOURS OF BEARING SERVICE AS LONG AS BEARING AND SHIELD ARE INSTALLED IN ACCORDANCE WITH PRESCRIBED PROCEDURE.

C: SPECIAL CARE MUST BE TAKEN TO ENSURE THAT THE BEARING SHIELD IS SECURELY IN PLACE, RESTING LIGHTLY AGAINST THE RETAINER NUT. IF THE SHIELD IS ALLOWED TO SEPARATE FROM THE RETAINER NUT, WATER MAY GAIN ACCESS TO THE INSIDE OF THE RETAINER AND CORROSION PRODUCTS FORM IN THE RETAINER AND THE BEARING, ACCELERATING BEARING WEAR. THIS INFORMATION IS BEING ADDED TO THE TM 99-1522-217-28 MANUAL.

4. SOURCES, MAINTENANCE AND RECOVERABILITY (SRM) CODES SPECIFIED IN

PAGES FOUR RULNEA1722 UNCLAS
DS AND GS MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST ARE BEING REVISED TO REFLECT BEARING, BEARING HOUSING AND SHIELD REPLACEMENT, AT THE INTERMEDIATE LEVEL OF MAINTENANCE ON THE THREE LEVEL SYSTEM. THE SRM FOR THE KSP6299-1 BEARING IS BEING CHANGED TO REFLECT REPAIR CODES AND RECOVERABILITY CODE D. WHEN THE BEARING IS NO LONGER SERVICEABLE OR CONDITION IS QUESTIONABLE, THE BEARING SHOULD BE RETURNED TO CORPUS CHRISTI ARMY DEPOT (CCAD) FOR DISPOSITION. BEARING SHOULD BE MARKED KSP6299 BEARING RECLAMATION, PURPOSE CODE A, CONDITION CODE F.

5. USAVSCOM POINT OF CONTACT IS DR. SAV-PEU, MR. DIXON, EXT 5006