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PARUZEXH RULNNACS282 8192827-UUUU--RUMMDTA. 1922097 JAN 77 ZEX FM CDR ARNG-DAC EDGEWOOD MD//NGB-AVN-L// TO A 1 07471 INFO RUEFHOA/CNGB WASH DC//NGB-ARL-A// P R 191600Z JAN 77 FMCDRAVSCOM STL MO//DRSAV-FEW// UNCLAS 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 ECEMENTS AFFECTED OR CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THIS MESSAGE! SUBJECT MAINTENANCE ADVISORY HESSAGE AUTHORIZING NEW LUBRICATION. INSPECTION REQUIREMENTS OF TAIL ROTOR FLEXIBLE COUPLINGS ON AH-/UH-1-HELICOPTERS (AH=1=77=1 AND UH=1=77=1) PURPOSE OF THIS MESSAGE THIS ADVISORY IS TO ACERT ACL USERS O. A MODIFICATION IN THE LUBRICATION INTERVAL FOR THE TAIL ROTOR PLEXIBLE COUPLING SCHEDULED TO BE IMPLEMENTED WITH THE NEW PHASED

PAGE 2 RULNNACZZZZ UNCLAS MAINTENANCE CHECKLISTS, TM 55-1520-210-PMS DATED 31 DEC 76 AND TM 55-1528-218-PM DATED 24 DEC 76. ALL AH-1/UH-1 AIRCRAFT MODELS ARE SUBJECT TO THE CURRICATION/ INSPECTION REQUIREMENTS DESCRIBED HEREIN, CORRESPONDING CHECKLISTS FOR ALC MODELS ARE IN DEVELOPMENT AND MILL BE FORTHCOMING. REPORTS OF FLEXIBLE COUPLING FAILURES ARE STILL BEING RECEIVED. THESE REPORTS SHOW THAT ALTHOUGH SIGNIFICANT CALENDAR TIME HAD ELAPSED SINCE THE LAST PACKING, THE OPERATING TIME OF THE AIRCRAFT INVOCVED HAD NOT REACHED THE 600-HOUR CUBRICATION INTERVAL SPECIFIED BY THE AFFECTED TECHNICAL MANUAL' LOSS OF TAIL ROTOR THRUST HAS BEEN THE RESULT OF COUPLING/HANGER BEARING FAILURES THE FLEXIBLE COUPLING SHALL NOW BE REPACKED EVERY 600 OPERATING HOURS FROM LAST PACKING, AS REFORE, BUT TO EXCEED 12 MONTHS FROM CAST PACKING DATE: DATE OF NEXT CUBRICATION IS NOW REQUIRED ON DA FORM 2478-18, THIS COUPLING IS COMMON TO THE TRANSMISSION TALL ROTOR DRIVE QUILL, THE HANGER ASSEMBLIES, THE 42 DEGREE GEARBOX INPUT/OUTPUT QUILLS, AND THE 92 DEGREE GRARBOX INPUT QUILL. 5. IF DATE OF LAST PACKING CANNOT BE DETERMINED, OR WAS LAST PACKED MORE THAN 12 MONTHS AGO, SCHEDULE COUPLING LUBRICATION AT THE PERIODIC/PHASE INSPECTION, PEPACK ALL COUPLINGS ON THE

SAME HELICOPTER AT THIS TIME! WHENEVER ANY OF THE FLEXIBLE COUPLINGS COME DUE FOR REPACKING. PERFORM THE FOLLOWING BEFORE DISASSEMBLY

A REMOVE DRIVE SHAFT COMPLETELY TO AVOID SIDELOADING THE ADJOINING DRIVE TRAIN COMPONENT, MANUALLY FLEX THE COUPLING, ANIALLY WITH A SLIGHT TORQUE APPLIED (CLOCKWISE AND COUNTERCLOCKWISE) TO CHECK FOR WEAR, POUGHNESS, OR BINDING OF SPLINES

VISUALLY INSPECT FOR WEAR METAL PARTICLES ADJACENT TO THE

COUPLING (OR THE BEARING) C' WIPE THE SHAFT OF THE MALE COUPLING CLEAN OF GREASE RESIDUE WITH A LINT-FREE CLOTH TO CHECK FOR EVIDENCE OF AN OVERHEATING COUPLING (OR BEARING) AS INDICATED BY DISCOLORATION (BELLE TO BELLE) BLACK IN COLOR);

INSPECT COUPLING SEAL FOR LEAKS, CUTS, TEARS, AND DETERIORA-D

E. ON HANGER ASSEMBLIES, MANUALLY ROTATE THE COUPLING SLOWLY WITH ENOUGH AXIAL LOAD TO CHECK FOR BEARING ROUGHNESS AND BINDING. F. ON HANGERS, INSPECT HANGER BEARING SUPPORT RING AND ATTACH. MENT LUGS FOR CRACKS, ELONGATED BOLT HOLES, OR OTHER VISIBLE DAMAGE 7. IF ANY OF THE ABOVE CONDITIONS ARE ENCOUNTERED, REMOVE AND

SE 4 RULMNACOZOZ UNCLAS REPLACE THE AFFECTED COMPONENT, SUBMIT THE DEFECTIVE UNIT TO DIRECT SUPPORT FOR REPLACEMENT OF COUPLING AND/OR BEARING! APPLICABLE -28 MANUAL FOR PROPER INSTALLATION PROCEDURES COUPLINGS MAY BE REPACKED WHILE INSTALLED ON THE AIRCRAFT REMOVE SPIRAL RETAINING RING FROM COUPLING WHILE HOLDING SEAL PLATE AGAINST SPRING PRESSURE, REMOVE PLATE AND SPRING: HOLD COUPLING AT FULL EXTENDED POSITION, REMOVE OLD GREASE AND CLEAN INTERNAL SPLINES, VISUALLY INSPECT SPLINES FOR GROOVES, UNUSUAL WEAR PATTERNS. AND DAMAGE, IF ANY SUCH CONDITION EXISTS, REMOVE AFFECTED COMPONENT AND SUBMIT TO DIRECT SUPPORT FACILITY CAUTION; DO NOT WASH, CLEAN, OR SPRAY THE BEARING OR HANGER ASSEMBLY WITH ANY TYPE OF SOLVENT, USE CLEAN LINT-FREE CLOTH TO CLEAN ASSEMBLY. IS. IF NO SUCH CONDITION EXISTS, HAND PACK THE OUTER COUPLING GREASE (ANDEROL L-786, NSN 9158-88-926-1969, FOR ALL_UH-1 AND AND @ YODELS; SYN-TECH 3913-G1, NSV 9158-88-586-8497, FOR AH-15 MODE(S) TO 1/8 INCH OVER TOP OF INTERNAL SPLINES OVER THE FULL EXPOSED LENGTH, KEEP COUPLING AT CUTWARD POSITION, REINSTALL SPRING, SEAL PLATE, AND RETAINING RING, PUSH AND PULL COUPLING SENTLY TO LIMIT OF TRAVEL SEVERAL TIMES TO DISTRIBUTE GREASE IN

PAGE 5 RULNNACHZEZ UNCLAS THE COUPLING. WHENEVER A HANGER ASSEMBLY HAS BEEN REPLACED, MONITOR ITS PERFORMANCE CLOSELY, IMMEDIATELY AFTER AIRCRAFT HAS SHUT DOWN. CAUTIOUSLY FEEL THE BEARING HAMGER! IF IT IS TOO HOT TO TOUCH. F IT IS UNUSUALLY HOTTER THAN ADJOINING MANGERS. REMOVE AND REPLACE THE HANGER ASSEMBLY.

12. ON HANGER BEARINGS JUST INSTALLED. A SMALL BEAD OF GRES SLIGHT EXPELLED FROM AROUND THE LIP OF THE BEARING SEAL INDICATES SLIGHT OVERFILLING OF THE BALL BEARING AT TIME OF MANUFACTURE AND IS NOT CAUSE FOR ITS REJECTION. WIPE LUBE FROM SEAL WITH CLEAN. LINTER CAUSE FOR ITS REJECTION. WIPE LUBE FROM SEAL WITH CLEAN. LINTER FREE CLOTH AND KEEP UNDER SURVEILLANCE FOR NEXT 10 FLIGHT HOURS. FREE CLOTH AND KEEP UNDER SURVEILLANCE FOR NEXT 10 FLIGHT HOURS. IF FURTHER INFORMATION IS REQUIRED. POINT OF CONTACT AT THIS COMMAND IS THOMAS HECEI, ATTN DRSAV-FEU. AUTOVON 698-6516.

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