

Gen-75-7

152036Z  
July 1976  
overheat of ni-cad  
batteries

16 Jul 76 0115

Arony 11/11

RAAUZEXH RULNNAC3181 1972045-UUUU--RUMMDTA;  
ZNR UUUUU  
R 152036Z JUL 76  
FM ARNG-DAC EDGEWOOD MD//OAC-S//  
TO AIG 7401  
BT

UNCLAS

SUBJECT CLN AIRCRAFT NICKEL-CADMIUM BATTERIES OVERHEATING  
1. REVIEW OF ATNG PRELIMINARY REPORT OF AIRCRAFT MISHAP (PRAM) DATA  
REVEALS AN INCREASING NUMBER OF PRECAUTIONARY LANDINGS DUE TO OVER-  
HEATING OF NICKEL-CADMIUM BATTERIES, PRIMARILY WITH UH-1 SERIES AIR-  
CRAFT; HOWEVER, OTHER ARNG AIRCRAFT MAY ALSO BE AFFECTED;  
2. AVIATORS SHOULD BE ALERT FOR INDICATIONS OF BATTERY OVERHEATING -  
NORMALLY THE FIRST INDICATION WILL BE A HIGH LOAD METER READING  
(APPROX 5), FOLLOWED BY SMOKE AND FUMES FROM THE BATTERY COMPART-  
MENT; DELAY IN TURNING OFF THE BATTERY SWITCH MAY RESULT IN BOILOVER  
OF BATTERY FLUID AND/OR EXPLOSION OF THE BATTERY; PILOTS CAN HELP  
PREVENT THIS CONDITION BY USING AN AUXILIARY POWER UNIT FOR STARTING  
THE ACFT WHENEVER POSSIBLE;  
MAINTENANCE PERSONNEL SHOULD INSURE COMPLIANCE WITH THE FOL:  
A. REQUIRED PERIODIC VOLTAGE REGULATOR INSPECTIONS ARE PERFORMED  
IAW APPLICABLE DASH 20 MANUAL,  
B. BATTERIES ARE SERVICED IN THE BATTERY SHOP - NOT IN THE ACFT;

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IAW PROCEDURES ESTABLISHED IN TM 11-6140-203-5-2;  
C. EXCESSIVE DRAIN ON BATTERIES SHOULD BE AVOIDED BY UTILIZING  
AUXILIARY POWER UNITS WHENEVER POSSIBLE FOR STARTING AND TROUBLE  
SHOOTING;  
BT  
#3181

Stop Leo Copy  
122109Z  
Nov 1976  
The cad  
Batteries

ARMY

12 NOV 76 22 33Z

RTTUZYUW RULNNAC4881 3172121-UUUU--RUHMDTA;  
ZNR UUUUU  
R 122109Z NOV 76  
FM CDRARNG EDGEWOOD MD//DAC-AVN-L//  
TO AIG 7481  
R 111438Z NOV 76

FM CDRECOM FT MONMOUTH NJ//DRSEL-MA-DT//  
TO RULNEAA/CDRARNG EDGEWOOD MD//DAC-AVN-L//  
RUWTFFA/CDRAAVSCOM ST LOUIS MO//DRSAV-FEG//  
RUCDGDG/CDRNICOM REDSTONE ARSENAL AL//DRSHI-MA//  
RUCIAFA/CDRNBCOM ROCK ISLAND IL//DRSHE-MA//  
RUVJHRA/CDRAAC FT HUACHUCA AZ//CO-LOG//  
RUEACMC/CDTUSMC WASHINGTON DC//CODE LHC-4//

BT  
UNCLAS  
THIS MESSAGE HAS OT BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSES, ADDRESSES SHOULD RETRANSMIT THIS MESSAGE TO ALL SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED; THE RETRANSMITTAL SHALL REFERENCE THIS MESSAGE;  
SUBJECT: MAINTENANCE OF AIRCRAFT NICKEL-CADMIUM BATTERIES  
1. THERE HAS BEEN A PROLIFERATION OF REFLEX CHARGERS IN THE MILITARY TO MEET URGENT NICKEL-CADMIUM BATTERY MAINTENANCE REQUIREMENTS; NUMEROUS QUERIES HAVE BEEN RECEIVED REGARDING THE NEED FOR PERFORMING THE CELL BALANCING AND DEEP DISCHARGE WHEN CHARGING BATTERIES USING THE REFLEX CHARGER,

PAGE 2 RULNNAC4881 UNCLAS  
2. COMPLETE ELIMINATION OF CELL UNBALANCE BY USE OF THE REFLEX CHARGER HAS NOT BEEN SUBSTANTIATED; IT IS MANDATORY THAT ALL AIRCRAFT NICKEL-CADIUM BATTERIES BE MAINTAINED EVERY 120 FLIGHT-HOURS IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN TM 11-6148-283-15-2; C3 INCLUDING ELECTRICAL LEAKAGE, DEEP DISCHARGE AND CELL BALANCING AND CAPACITY CHECK; FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PREMATURE BATTERY FAILURES, THERMAL RUNAWAY AND POSSIBLE SAFETY-IN-FLIGHT PROBLEMS DUE TO EXCESSIVE HEAT AND EVENTUAL BATTERY DESTRUCTION,  
BT  
#4881

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