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*UH-1-97-ASAM-05  
NVG*

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FROM :CDRATCOM ST LOUIS MO//AMSAT-R-X// TO :AIG 8881 :AIG 9004 :AIG 9042 :AIG 8708 :AIG 7515 :AIG 7471 :AIG 12124 :DCM APMO OZARK AL//DCMDE-AOA// :ASF42 81ST ARCOM DOBBINS AFB GA :CDRCBDCOM ABERDEEN PROVING GROUND MD//AMSCB-OP/OPA// :CDRUSAGAPG ABERDEEN PROVING GROUND MD//STEAP-PF-V// :RAYTHEON RANGE SYSTEMS ENGINEERING KWAJALEIN MH//PAT2// :CDR WHITE SANDS MISSILE RANGE NM//STEW-S-NRS-AA-MQA// :CDRDPG DUGWAY UT//STEDP-AVN// :USDOCO LANDSOUTHEAST IZMIR TU//AV// :DPRO BELL HELICOPTER FORT WORTH TX//DCMDS-RBOB/RBP// :WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA ://CODE 831.2 AIRCRAFT QA// INFO :HQAFSPC PETERSON AFB CO//LGM/SEF// :CDRMDW WASHINGTON DC//ANLG-LS// :CDRUSASDC WASHINGTON DC//CSSD-ZA// :SEC STATE WASHINGTON DC//NEA/MFO// :AFSOC HURLBURT FIELD FL//LGMW// :HQ PACAF HICKAM AFB HI//DO/LGM// :HQ AMC SCOTT AFB IL//LG/LGF/LGQ/SEF/DO/DOT/DOV// :DOX// :89AW ANDREWS AFB MD//LG// :89OG ANDREWS AFB MD//CC/OGV// :IHS ANDREWS AFB MD//CC/DO// :CDR FT BRAGG NC//AFZA-GT-OM// :CDR HQ 1ST COSCOM FT BRAGG NC//LOGOPS AVN SECT : AFVH-DC-L// :FAA AERONAUTICALCEN OKLAHOMA CITY OK//AFS-620// :DISC PHILADELPHIA PA//QEBB-JU// :CDR LSE AVIATION IZMIR TU//LSE// :FAA SOUTHWEST RGN HQ FORT WORTH TX//ASW-100// :PMSW VHFS WARRENTON VA//SFAE-IEW-SG// XMT :USDAO DHAKA BG :USDAO RANGOON BM :USCINCPAC REP PHNOM PENH CB :USDAO COLOMBO CE :USDAO SUVA FJ :DSA NEW DELHI IN :AMEMBASSY ANTANANARIVO MA :AMEMBASSY PORT LOUIS :SAO KUALA LUMPUR MY ACCT : TEXT

**Subject**

AVIATION SAFETY ACTION MESSAGE, MAINTENANCE MANDATORY,

RCS CSGLD-1860(R1), ALL UH-1 H/V, NIGHT VISION GOGGLE FLIGHT RESTRICTIONS, UH-1-97-ASAM-05, TB 1-1520-210-20-36.  
NOTE - THIS IS AN AVIATION SAFETY ACTION MESSAGE ISSUED PER AR 95-3, CHAPTER 5 REVISION VIA MESSAGE HQ AVSCOM, AMSAV-XSOF, 181900Z

SEP 90, SUBJECT: CHANGE TO AR 95-3, CHAPTER 5, SAFETY OF FLIGHT MESSAGES. THIS MESSAGE HAS NOT BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSEES. ADDRESSEES SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO ALL SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THE MESSAGE. ACTION ADDRESSES WILL IMMEDIATELY VERIFY THIS TRANSMISSION TO COMMANDER, ATCOM, ATTN: AMSAT-R-X (SOY COMPLIANCE OFFICER).

### Priority Classification

A. AIRCRAFT IN USE - UPON RECEIPT OF THIS MESSAGE THE CONDITION STATUS SYMBOL OF THE CITED AIRCRAFT WILL BE CHANGED TO A CIRCLED RED //X//: AIRCRAFT RESTRICTED FROM NVG FLIGHT. THE CIRCLED RED //X// MAY BE CLEARED WHEN THE REQUIREMENT OF PARA 8 BELOW IS COMPLETED. THE AFFECTED AIRCRAFT SHALL BE INSPECTED AS SOON AS PRACTICAL BUT NO LATER THAN THE TASK/INSPECTION SUSPENSE DATE. FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS MESSAGE WITHIN THE TIME FRAME WILL CAUSE THE STATUS SYMBOL TO REMAIN A CIRCLED RED //X//.

B. AIRCRAFT IN DEPOT MAINTENANCE - AIRCRAFT WILL NOT BE ISSUED UNTIL COMPLIANCE WITH THIS ASAM HAS BEEN COMPLETED.

C. AIRCRAFT UNDERGOING MAINTENANCE - AIRCRAFT WILL NOT BE RELEASED UNTIL COMPLIANCE WITH THIS ASAM HAS BEEN COMPLETED.

D. AIRCRAFT IN TRANSIT -

(1) SURFACE/AIR SHIPMENT - WITHIN 30 HOURS OR 60 DAYS OF ARRIVAL.

(2) FERRY STATUS - INSPECT AT FINAL DESTINATION.

E. MAINTENANCE TRAINERS (CATEGORY A AND B) - N/A.

F. COMPONENT/PARTS IN STOCK AT ALL LEVELS (DEPOT AND OTHERS) INCLUDING WAR RESERVES - N/A

G. COMPONENTS/PARTS IN WORK (DEPOT LEVEL AND OTHERS) - N/A.

### Task/Inspection Suspense Date

- WITHIN NEXT 30 FLIGHT HOURS/

### Reporting Compliance Suspense Date

- NO LATER THAN 23 JUL 97

PER PARA 14A OF THIS MESSAGE.

### Summary of Problem

A. UH-1-97-ASAM-02 (TB 1-1520-210-20-34) DIRECTED ALL UNITS TO REMOVE OBSCURING MATERIALS FROM THE RED AND GREEN NAVIGATION POSITION LIGHTS. THE ORIGINAL INTENT OF MASKING THESE LIGHTS WAS TO PREVENT DISRUPTIVE GLARE DURING NIGHT VISION GOGGLE (NVG) OPERATIONS. HOWEVER, THESE MASKING PRACTICES WERE IN VIOLATION OF FAA REGULATIONS WHEN AIRCRAFT WERE OPERATED IN THE NATIONAL AIRSPACE AT NIGHT. ONCE THE MASKING WAS REMOVED, AN UNACCEPTABLE LEVEL OF GLARE PERSISTED FOR AIRCRAFT OPERATORS USING NVG. THE AEROMEDICAL RESEARCH LABORATORY DEVELOPED A MASKING SCHEME IN COMPLIANCE WITH FAA REGULATIONS AND NVG USER REQUIREMENTS.

B. FOR MANPOWER/DOWNTIME AND FUNDING IMPACTS SEE PARA 12.

C. THE PURPOSE OF THIS MESSAGE IS TO:

(1) REQUIRE A ONE TIME MASKING OF THE RED AND GREEN POSITION LIGHTS TO EXACT DIMENSIONS SPECIFIED.

- (2) ENSURE THAT FLIGHT OPERATIONS ARE CONDUCTED IAW FAA REGULATIONS WHEN FLYING IN CIVIL AIRSPACE AT NIGHT.
- (3) PROVIDE CONTROLS TO MINIMIZE RISK DURING NVG FLIGHT OPERATIONS.

#### **End Items To Be Inspected**

- ALL UH-1H/V AIRCRAFT.

#### **Assembly Components to be Inspected**

- UPPER AND LOWER BOTS

RED AND GREEN SETS OF EXTERIOR NAVIGATION LIGHTS.

#### **Parts to be Inspected**

- N/A

#### **Inspection Procedures**

- ENSURE ACTIONS PER PARAGRAPH 9 OF UH-

1-97-ASAM-02 (TB 1-1520-210-20-34) WERE PERFORMED; REQUIRING REMOVAL OF ALL TAPE AND OR PAINT FROM BOTH UPPER AND LOWER SETS OF RED AND GREEN LENSES. IF PARAGRAPH 9 OF UH-1-97-ASAM-02 (TB 1-1520-210-20-34) WAS NOT PERFORMED COMPLETE THE PROCEDURES OF PARAGRAPH 9 US-1-97-ASAM-02 (TB 1-1520-210-20-34) PRIOR TO IMPLEMENTING PARAGRAPH 9 OF THIS ASAM.

#### **Correction Procedures**

- A. LENS MODIFICATION -
  - (1) BOTH UPPER AND LOWER RED AND GREEN LENSES MUST TO BE MODIFIED. LEAVE POSITION LIGHT DOME LENS IN ASSEMBLY.
  - (2) DETERMINE THE HORIZONTAL CENTER LINE OF THE POSITION LIGHTS BY DRAWING OR MARKING FROM THE CENTER OF THE PHILLIPS SCREW AND CONE POINT OF THE LIGHT COVER AND EXTENDING ACROSS DOME LENS THROUGH THE RAISED LETTER OR DIMPLE LOCATED IN THE CENTER OF THE LENS.
  - (3) FOR THE UPPER RIGHT AND LEFT POSITION LIGHTS, MARK A LINE 1/8 INCH BELOW AND PARALLEL TO THE CENTER LINE DRAWN IN STEP 2. THE LINE SHOULD EXTEND FROM THE LIGHT COVER TO THE BASE OF THE LENS. PLACE MASKING TAPE ON THE UPPER PART OF THE LIGHT ASSEMBLY ALONG THE LINE DRAWN 1/8 INCH BELOW THE CENTER LINE. NOTE THAT THE MASKING TAPE WILL JUST COVER THE HEAD OF THE PHILLIPS SCREW ON THE LIGHT ASSEMBLY COVERS.
  - (4) FOR THE LOWER RIGHT AND LEFT POSITION LIGHTS, MEASURE AND MARK 1/8 INCH ABOVE AND PARALLEL TO THE CENTER LINE MARK ON THE LENS. THE LINE SHOULD EXTEND FROM THE LIGHT COVER TO THE BASE OF THE LENS. PLACE MASKING TAPE ON THE LOWER PART OF THE LIGHT ASSEMBLY ALONG THE 1/8 INCH LINE ABOVE THE CENTER LINE. NOTE THAT THE MASKING TAPE JUST COVERS THE HEAD OF THE PHILLIPS SCREW ON THE LIGHT ASSEMBLY COVERS.
  - (5) VERIFY THAT SLIGHTLY MORE THAN 1/2 OF THE TOP PORTIONS OF THE EXPOSED UPPER POSITION LIGHTS ARE COMPLETELY MASKED, AND SLIGHTLY MORE THAN 1/2 OF THE BOTTOM PARTS OF THE LOWER POSITION LIGHTS ARE COMPLETELY MASKED.
  - (6) TO PREVENT OVERSPRAY OF THE AIRFRAME CARC PAINT, CUT

A PIECE OF STENCIL BOARD, OIL, NSN 9310-00-160-7858, APPROXIMATELY 16 INCHES LONG X 11 INCHES WIDE AND LOCATE CENTER POINT. PLACE THE POSITION LIGHT TEMPLATE OVER THE CENTER POINT OF THE CUT STENCIL BOARD LENGTHWISE AND DRAW AROUND THE TEMPLATE. REMOVE THE TEMPLATE AND, WITH A SHARP INSTRUMENT, CUT OUT TEMPLATE AREA. THE POSITION LIGHT ASSEMBLY WILL BE EXPOSED TO MINIMAL OVERSPRAY.

## NOTE

ROGGING THE EXPOSED LENS SURFACES WITH EITHER STEEL WOOL OR SANDPAPER PRIOR TO PAINTING MAY MAKE APPLICATION EASIER AND THE PAINT ADHERE BETTER.

(7) PAINT THE EXPOSED AREA OF THE LENSES USING LACQUER, OLIVE DRAB, 16 OZ. AEROSOL CAN, NSN 8010-00-584-3149. PROCEED UNTIL SUFFICIENT COATS ARE APPLIED TO PREVENT ANY BLEEDING OF LIGHT THROUGH THE PAINTED AREA. TEST THE OPACITY OF THE PAINTED AREA BY TURNING ON THE POSITION LIGHTS.

(8) A SCHEMATIC DRAWING OF THE ABOVE INSTRUCTIONS WILL BE INCLUDED IN TB 1-1520-210-20-36 OR CAN BE OBTAINED VIA DATAFAX BY CONTACTING MR. JOHN SMITH, DIRECTORATE OF LOGISTICS, FT RUCKER, AL. TELEPHONE DSN 558-2460 OR COMMERCIAL 334/255-2460; DATA FAX 334/255-3717.

## B. FLIGHT PROCEDURES -

(1) ALL AIRCRAFT OPERATIONS WILL BE CONDUCTED IAW AR 95-1, AR 95-2, AND AR 95-3; APPLICABLE SUPPLEMENTS TO AR 95-1, AR 95-2, AND AR 95-3; AND FEDERAL AVIATION ADMINISTRATION (FAA) EXEMPTION 3946E.

## NOTE:

THE NEW MASKING SCHEME LIGHTS WILL ALLEVIATE NVG INTERFERENCE FROM THE AIRCRAFT'S OWN POSITION LIGHTS BUT WILL NOT PROVIDE SHIELDING FROM OTHER AIRCRAFT. THEREFORE, COMMANDERS MUST URGE EXTREME CAUTION WHEN FLYING NVG, MULTI-AIRCRAFT OPERATIONS, PARTICULARLY WHEN POSITION LIGHTS ARE REQUIRED TO BE ILLUMINATED TO MEET REGULATIONS.

(2) NO AIRCRAFT SHALL FLY ABOVE 500 FEET AGL WITH LIGHTS OUT/DIM UNLESS IN A DESIGNATED MILITARY TRAINING AREA WHICH MEETS THE REQUIREMENTS OF AR 95-2, PARAGRAPH 9-2. WHEN IN CIVIL AIRSPACE, COMPLIANCE WITH FAA EXEMPTION 3946E IS REQUIRED.

**Supply/Parts and Disposition**

A. PARTS REQUIRED - ITEMS CITED IN PARAGRAPH 6 MAY BE REQUIRED TO REPLACE DEFECTIVE OR DAMAGED ITEMS.

B. REQUISITIONING INSTRUCTIONS - REQUISITION REPLACEMENT PARTS USING NORMAL SUPPLY PROCEDURES.

C. BULK AND CONSUMABLE MATERIALS - STENCIL BOARD, OIL, NSN 9310-00-160-7858 LACQUER, OLIVE DRAB, 16 OZ. AEROSOL CAN, NSN 8010-00-584-3149.

D. DISPOSITION - DISPOSE OF REMOVED PARTS/COMPONENTS USING NORMAL SUPPLY PROCEDURES.

E. DISPOSITION OF HAZARDOUS MATERIAL - IN ACCORDANCE WITH ENVIRONMENTAL PROTECTION AGENCY DIRECTIVES AS IMPLEMENTED BY YOUR SERVICING ENVIRONMENTAL COORDINATOR (AR 200-1).

**Special Tools and Fixtures Required**

- AS REQUIRED PER

MESSAGE.

**Application**