

221448Z FEB 00 PP PP UUUU AA ZYUM

FROM:

:CDRAMCOM REDSTONE ARSENAL AL//AMSAM-SF-A//

PART 1 OF 3 PARTS

SUBJECT - AVIATION SAFETY ACTION MESSAGE, MAINTENANCE

FACTORY, RCS CBOLD-1860(R1), ALL U.S. ARMY AIRCRAFT,

ATED INFORMATION ON NIGHT VISION GOGGLES, **GEN-00-ASAM-01.**

1. PRIORITY CLASSIFICATION - N/A.
2. TASK/INSPECTION SUSPENSE DATE - N/A.
3. REPORTING COMPLIANCE SUSPENSE DATE - N/A.
4. SUMMARY OF PROBLEM -

4A. THIS MESSAGE SUPERCEDES GEN-98-ASAM-02 AND GEN-99-ASAM-02. THE PURPOSE OF THIS MESSAGE IS TO PROVIDE CONSOLIDATED AND UPDATED INFORMATION ON AVIATION NVG MESSAGES. IT IS NOT INTENDED TO REPLACE ANY PUBLICATION, BUT AS A SUPPLEMENT TO THOSE PUBLICATIONS.

NOTE:

THIS MESSAGE DOES NOT ADDRESS NIGHT VISION DEVICES USED FOR GROUND OPNS.

4B. THE UPDATED INFORMATION IN THIS MESSAGE IS ORGANIZED AS FOLLOWS:

PARA SUBJECT

OPERATIONAL

8A COMMERCIAL NIGHT VISION DEVICES

8B AN/AVS-6 (ANVIS)

8C HUD/ADSS

8D SUPPLEMENTAL LIGHTING

8E LASER POINTERS

8F PHYSICAL SECURITY

8G CURRENT PUBLICATIONS

8H EXPIRED PUBLICATIONS

MAINTENANCE

8I ANVIS MAINTENANCE QUALIFICATION TRAINING

8J BATTERY AND POWER PACK ASSEMBLY (BATTERY PACK)

8K TEST SETS

8L AIRCRAFT MODIFICATION WORK ORDERS (MWO)

8M AIRCRAFT LIGHTING

8N FORMS AND RECORDS

8O NVG VISOR HOUSING MODIFICATIONS

8P HELMETS

8Q MISCELLANEOUS INFORMATION

16 POINTS OF CONTACT

5. END ITEMS - THIS MESSAGE COVERS THE AN/AVS-6 SERIES, AN/AVS7, ADSS, AND ASSOCIATED SUPPORT EQUIPMENT FOR THESE SYSTEMS.

6. ASSEMBLY COMPONENTS TO BE INSPECTED - N/A

7. PARTS TO BE INSPECTED - N/A

8. NVG PROCEDURES/INFORMATION -

8A. COMMERCIAL NIGHT VISION DEVICES - COMMERCIAL NIGHT VISION DEVICES (INCLUDING PROCURED GSA CATALOGUED GOGGLES AND SPARE PARTS) ARE NOT AUTHORIZED FOR AVIATION USE, EXCEPT FOR TEST, EVALUATION, AND DEMONSTRATION AS REQUESTED BY F96V/RSTA. THESE NONSTANDARD DEVICES AND PARTS HAVE NOT BEEN ADEQUATELY TESTED FOR MILITARY USE (ELECTROMAGNETIC INTERFERENCE, ETC).

8B. AN/AVS-6 (ANVIS) -

NOTE

PRIOR TO FLYING WITH ANVIS, ENSURE A PROPER

FIT OF THE SPH - 4/4B OR THE HGU-56/P HELMET.

IF THE CREWMEMBER CANNOT ADJUST THE ANVIS GOGGLES

TO HIS/HER EYES, A QUALIFIED ALSE TECHNICIAN (Q2/H2)

MAY NEED TO HEAT TREAT THE THERMOPLASTIC LINER (TPL)

TO PROVIDE A PROPER FIT.

8B(1) THE FOLLOWING VERSIONS OF THE AN/AVS-6 ANVIS ARE THE ONLY IMAGE INTENSIFICATION SYSTEMS AUTHORIZED FOR AVIATION FLIGHT USE:

| | |
|----------------|----------------------|
| AN/AVS-6(V)1 | NSN 5855-01-138-4749 |
| AN/AVS-6(V)2 | NSN 5855-01-138-4748 |
| AN/AVS-6(V)1A | NSN 5855-01-439-1745 |
| BINOCULAR ASSY | NSN 6650-01-242-2508 |
| AN/AVS-9(V) | NSN 5855-01-433-3157 |

8B(2) IMAGE INTENSIFIER TUBES - RESULT/REFURBISHED IMAGE INTENSIFIER TUBES ARE NOT AUTHORIZED FOR USE. UNITS WILL NOT PURCHASE OR USE RESULT IMAGE INTENSIFIER TUBES FROM THE U.S. MARINE CORPS REPAIR FACILITY AT BARSTOW, CA, OR ANY OTHER SOURCE. ANY QUESTIONS OR

GEN-00-ASAM-01

NVG

*Supersedes
Gen-98-ASAM-02
Gen-99-ASAM-02*

CONCERNS, CONTACT MR. GLEN NOWAK, PARA 16A.

8B(3) NEWLY FIELDED ANVIS THAT FAIL EITHER THE "SERVICE-UPON RECEIPT-OF-MATERIAL" INSPECTION OR FAIL PRIOR TO THE EXPIRATION OF THE WARRANTY MUST BE REPORTED ON A PRODUCT QUALITY DEFICIENCY REPORT (PQDR), SF 368. THE PQDR MUST BE PROCESSED THROUGH THE LOCAL CECOM AVIONICS LAR AND TRANSMITTED TO CDR, CECOM. THIS WILL ENSURE THE UNIT SUBMITTING THE PQDR RECEIVE CREDIT FOR THAT NVG.

8B(4) DUAL PIVOT AND ADJUSTMENT SHELF (PAS) (EXCEPT AN/AVS6(V)12), 25MM EYEPiece LENS, AND HUD NECK CORD ASSEMBLY ENHANCEMENTS ARE AUTHORIZED TO BE APPLIED TO ANY ANVIS.

8B(5) CONVERSION OF AN/AVS-6(V)2 (NSN 5855-01-1384748) BINOCULARS TO AN/AVS-6(V)1 (NSN 5855-01138-4749) VERSION BY REPLACEMENT OF THE PAS, IS NOT AUTHORIZED.

8B(6) INSTALLATION OF THE 3- NOTCH LIGHT INTERFERENCE FILTER (LIF), NSN 5855-01379-1410, ON AN/AVS-6 IS MANDATORY, IAW PROCEDURES CONTAINED IN TM 11-5855-26310, PARA 2-12, AND FIGURE 2-24 (THE CORRECT LIF IS DEPICTED AS THE NEW LIF IN THIS FIGURE). AN/AVS-6 WITHOUT THIS MODIFICATION WILL BE CARRIED ON A RED //X// STATUS. UNIT MAINTAINERS WILL DOCUMENT THE INSTALLATION OF THE NEW LIF ON DA FORM 2408-15, HISTORICAL RECORD.

8B(7) MX-10160 AND MX-10160A IMAGE INTENSIFIER TUBES WILL NOT BE MIXED WITHIN ANY ANVIS BINOCULAR ASSEMBLY. AN/AVS-6(V)1A SYSTEMS THAT REQUIRE REPLACEMENT IMAGE INTENSIFIER TUBES WILL ONLY USE MX10160A REPLACEMENT TUBES.

8B(8) DIFFERENT VERSIONS OF ANVIS MAY BE USED IN THE SAME COCKPIT, FLIGHTCREW, OR FORMATION.

8C. HUD/ADSS -

8C(1) WHEN INSTALLED ON THE ANVIS MONOCULAR, THE ANVIS/HUD OPTICAL UNIT SUPPORT CLAMPS ARE CONSIDERED PERMANENT. HOWEVER, HUD CLAMPS MAY BE REMOVED FOR MAINTENANCE, OPERATIONAL REQUIREMENTS, ANVIS TRANSFER, OR HUD SYSTEM TRANSFER. UNIT MAINTAINERS WILL DOCUMENT THE INSTALLATION AND REMOVAL OF THE SUPPORT CLAMPS ON DA FORM 2408-15, HISTORICAL RECORD.

8C(2) UNITS ARE AUTHORIZED TO MODIFY THE FOAM INSERT OF THE ANVIS CARRYING CASE TO ACCEPT ANVIS WITH OPTICAL UNIT SUPPORT CLAMP INSTALLED.

8C(3) THE ANVIS NECK CORD MUST BE REMOVED FROM THE ANVIS WHEN THE HUD OR ADSS IS IN USE TO FACILITATE EGRESS FROM THE AIRCRAFT IN THE EVENT OF AN EMERGENCY. AN ADDITIONAL (REMOVABLE) NECK CORD ASSEMBLY IS AVAILABLE. THE ASSEMBLY CONSISTS OF A NECKCORD (STRAP, WEBBING), P/N 125302, NSN 5340-01396-1746, AND BARREL FASTENER (CYLINDER), P/N 125301, NSN 5340-01-3934890. INSTALL BY THREADING THE NECK CORD ASSEMBLY UP THROUGH THE PAS AND INSTALLING THE BARREL CONNECTOR ON THE ENDS OF THE NECK CORD ASSEMBLY. TIE A KNOT IN ONE END OF THE NECK CORD ASSEMBLY AFTER THREADING THROUGH THE BARREL CONNECTOR. THE SECOND END REMAINS UNKNOTTED TO ALLOW EASE OF REMOVAL OF THE NECK CORD ASSEMBLY.

8C(4) THE HUD NECK CORD WITH A BARREL FASTENER (CYLINDER) MAY ALSO BE USED TO REPLACE THE NECK CORD ASSEMBLY USED ON ANY STANDARD ANVIS SYSTEM.

8D. SUPPLEMENTAL LIGHTING - INTERIOR LIGHTING ADDITIONAL TO THAT WHICH IS ORGANIC TO THE AIRCRAFT MAY CONSIST OF LIP LIGHTS (MIC LIGHTS), FINGER LIGHTS, FLASHLIGHTS WITH FILTERS, LASERS, AND OTHER SIMILAR DEVICES.

NOTE

LIP/MIC LIGHTS AND FINGER LIGHTS DO NOT SATISFY THE FLASHLIGHT REQUIREMENT OF AR 95-1.

8D(1) FM SOLDIER HAS APPROVED THE FOLLOWING ITEMS:

| COMPONENT | NSN |
|---------------------------------|------------------|
| FINGER LIGHT | 6230-01-357-2175 |
| MIC LIGHT | 6240-01-362-4902 |
| FLASHLIGHT FILTER, (1.715 INCH) | 6230-01-369-1658 |
| FLASHLIGHT FILTER, (1 INCH) | 6230-01-369-1659 |
| FLASHLIGHT FILTER, (0.895 INCH) | 6230-01-369-1657 |
| AA FLASHLIGHT | 6230-01-259-4495 |
| ANVIS COMPATIBLE FLASHLIGHT | |
| FILTER (N/ROOT) | 6230-01-393-2365 |

8D(2) IF THE ABOVE ITEMS ARE NOT AVAILABLE, SUPPLEMENTAL LIGHTING WHICH PASSES THE EVALUATION OF PARAGRAPH 8D(4) IS AUTHORIZED.

8D(3) THE SPECIFIC SUPPLEMENTAL LIGHTING CONFIGURATIONS AUTHORIZED BY UNIT COMMANDERS MUST BE DEFINED IN THE UNIT SOP. UNIT COMMANDERS MUST ENSURE CREWMEMBERS RECEIVE INSTRUCTION IN THE USE OF AUTHORIZED SUPPLEMENTAL LIGHTING INCLUDING FLASHLIGHT FILTERS. THIS REQUIREMENT MAY BE MET AS PART OF NIGHT VISION GOGGLE READINESS LEVEL PROGRESSION IF ADDRESSED IN THE UNIT STANDARDIZATION SOP. AS A MINIMUM, THE FOLLOWING TRAINING MUST BE DOCTED, EVALUATED, AND DOCUMENTED:

8D(3)(A) OPERATION AND USE OF LIGHTING.

8D(3)(B) CAUTIONS/WARNINGS ASSOCIATED WITH THE LIGHTING.

8D(3)(C) DEMONSTRATE DEGRADATION OF NVG PERFORMANCE CAUSED BY SUPPLEMENTAL LIGHTING.

NOTE

LIGHTS THAT HAVE NOT PASSED THE SUPPLEMENTAL TEST DESCRIBED BELOW WILL NOT BE USED IN THE

COCKPIT/PILOT STATIONS EXCEPT FOR GROUND OPERATIONS. THESE LIGHTS MAY BE USED IN THE CARGO/PASSENGER COMPARTMENT OF UH-1, UH-60, CH58A/C, OR CH-47 AIRCRAFT, AT THE DISCRETION OF THE PILOT IN COMMAND (PIC).

SD(4) SUPPLEMENTAL LIGHTING DEGRADATION EVALUATION - A METHOD FOR EVALUATING THE EFFECTS OF SUPPLEMENTAL LIGHTING ON ANVIS IS AS FOLLOWS:

SD(4)(A) AT NIGHT, IN AN AIRCRAFT LOCATED IN AN AREA OF LOW AMBIENT LIGHT (LANDING ZONE, ETC), WITH INTERIOR LIGHTING SET FOR NVG OPERATIONS, AND WITH ANVIS PREPARED FOR USE, POSITION A REFLECTIVE MATERIAL (MAP SHEET, NOTE CARD, VINYL CHECKLIST, ETC.) AT READING DISTANCES (APPROXIMATELY 12 TO 18 INCHES) FROM YOUR EYES.

SD(4)(B) SHINE THE SUPPLEMENTAL LIGHT ONTO THE MATERIAL. WITH THE UNAIDED EYE, LOOK AT THE RESULTANT REFLECTION CAST ON THE WINDSCREEN.

SD(4)(C) OBSERVE THIS SAME REFLECTION THROUGH THE ANVIS. AN ACCEPTABLE SUPPLEMENTAL LIGHT SOURCE WILL ALLOW NVG AIDED VISION THROUGH THE REFLECTION. THE REFLECTION MAY EVEN DISAPPEAR.

SD(4)(D) IF THE REFLECTION BLOCKS THE ANVIS AIDED VISION OF ANY CREWMEMBER TO THE OBSERVED AREA, THIS LIGHT SOURCE IS UNACCEPTABLE.

EE. LASER POINTERS -

WARNING

USERS SHOULD BE AWARE THAT ANY LASER CAN PERMANENTLY OR TEMPORARILY DEGRADE THE PERFORMANCE OF ANVIS IF USED IMPROPERLY.

WARNING

ANY LASER THAT IS NOT A CLASS 1 LASER DEVICE HAS THE POTENTIAL TO CAUSE PERMANENT DAMAGE TO THE EYE.

EE(1) LASERS OTHER THAN CLASS I NEAR IR LASERS MAY BE USED ONLY IN THE CARGO COMPARTMENT OF UH-1, UH-60 OR CH-47 AIRCRAFT, OR PASSENGER COMPARTMENT OF THE OH-58 AT THE DISCRETION OF THE PIC. THE PIC WILL INCLUDE THE USE OF LASER POINTERS IN THE CREW AND PASSENGER BRIEFING FOR NIGHT OPERATIONS.

EE(2) VISIBLE LASER POINTERS, OR NEAR-INFRARED (NEAR-IR) INVISIBLE LASER POINTERS GREATER THAN CLASS I, SEVERELY DEGRADES THE PERFORMANCE OF ANVIS AND CREATE AN EYE HAZARD WHEN USED IN THE COCKPIT OF ARMY HELICOPTERS.

EE(3) ANY CLASS I NEAR-IR LASER IS ACCEPTABLE FOR USE IN THE COCKPITS OR CARGO COMPARTMENTS OF ARMY HELICOPTERS. THE INFRARED AIMING LIGHT, AN/PAQ-4C (MSN 5855-01-398-4315, LIN NUMBER 34938) IS A CLASS I, NEAR-IR (830-860 NANOMETERS) LASER, WHICH PROVIDES REASONABLE RANGE PERFORMANCE WITH LITTLE TO NO DEGRADATION OF THE ANVIS PERFORMANCE WHEN DIRECTED THROUGH THE WINDSCREEN OF HELICOPTER COCKPITS. THIS LASER IS DEEMED ACCEPTABLE FOR USE.

WARNING

USE CAUTION NOT TO POINT LASERS INSIDE THE COCKPIT, AS THIS MAY DEGRADE ANVIS PERFORMANCE.

EE(4) PRIOR TO CONDUCTING OPERATIONS USING LASERS, UNIT COMMANDERS SHALL INCLUDE PROCEDURES REGARDING THE USE OF LASER POINTERS DURING ANVIS HELICOPTER MISSIONS IN THE UNIT SOP.

EE(5) GUIDANCE REGARDING HAZARDS ASSOCIATED WITH TACTICAL LASER POINTERS IS AVAILABLE FROM THE U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE, DSN 5843912 OR (410) 436-1932;

[HTTP://CHPPM-WWW.APOEA.ARMY.MIL/LASER/INDEX](http://CHPPM-WWW.APOEA.ARMY.MIL/LASER/INDEX). EMAIL IS

LASERWAG.AMEDD.ARMY.MIL

GENERAL GUIDANCE REGARDING THE SAFE USE OF LASERS IS AVAILABLE IN THE FOLLOWING VIDEO TAPES:

EE(5)(A) TVT-20-835, GUIDELINES FOR LASER SAFETY.

EE(5)(B) TVT-20-854, SAVPIN 7059800A, LASERS IN COMBAT AND TRAINING

EE(5)(C) TVT-20-855, SAVPIN 7059810A, LASERS, THE NEW THREAT.

EF. PHYSICAL SECURITY -

EF(1) UNITS SHOULD USE THE FOLLOWING REFERENCES AND THEIR LOCAL REQUIREMENTS FOR ANVIS

PHYSICAL SECURITY AND ACCOUNTABILITY:

EF(1)(A) AR 190-51, PHYSICAL SECURITY.

EF(1)(B) DA PAM 190-51, RISK ANALYSIS FOR ARMY PROPERTY.

EF(1)(C) AR 710-2 AND AR 735-5, UNIT SUPPLY.

EF(1)(D) CECOM SECURITY CLASSIFICATION GUIDE FOR IMAGE

INTENSIFIER DEVICES

EF(2) FOR FURTHER GUIDANCE, CONTACT THE LOCAL PHYSICAL SECURITY MANAGER/OFFICER.

COCKPIT/PILOT STATIONS EXCEPT FOR GROUND OPERATIONS. THESE LIGHTS MAY BE USED IN THE CARGO/PASSENGER COMPARTMENT OF UH1, UH-60, OH58A/C, OR CH-47 AIRCRAFT, AT THE DISCRETION OF THE PILOT IN COMMAND (PIC).

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8D(4)(B) SHINE THE SUPPLEMENTAL LIGHT ONTO THE MATERIAL. WITH THE UNAIDED EYE, LOOK AT THE RESULTANT REFLECTION CAST ON THE WINDSCREEN.

8D(4)(C) OBSERVE THIS SAME REFLECTION THROUGH THE ANVIS. AN ACCEPTABLE SUPPLEMENTAL LIGHT SOURCE WILL ALLOW NVG AIDED VISION THROUGH THE REFLECTION. THE REFLECTION MAY EVEN DISAPPEAR.

8D(4)(D) IF THE REFLECTION BLOCKS THE ANVIS AIDED VISION OF ANY CREWMEMBER TO THE OBSERVED AREA, THIS LIGHT SOURCE IS UNACCEPTABLE.

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8E(2) VISIBLE LASER POINTERS, OR NEAR-INFRARED (NEAR-IR) INVISIBLE LASER POINTERS GREATER THAN CLASS I, SEVERELY DEGRADES THE PERFORMANCE OF ANVIS AND CREATE AN EYE HAZARD WHEN USED IN THE COCKPIT OF ARMY HELICOPTERS.

8E(3) ANY CLASS I NEAR-IR LASER IS ACCEPTABLE FOR USE IN THE COCKPITS OR CARGO COMPARTMENTS OF ARMY HELICOPTERS. THE INFRARED AIMING LIGHT, AN/PAQ-4C (NSN 5855-01-398-4315, LIN NUMBER 14918) IS A CLASS I, NEAR-IR (830-860 NANOMETERS) LASER, WHICH PROVIDES REASONABLE RANGE PERFORMANCE WITH LITTLE TO NO DEGRADATION OF THE ANVIS PERFORMANCE WHEN DIRECTED THROUGH THE WINDSCREEN OF HELICOPTER COCKPITS. THIS LASER IS DEEMED ACCEPTABLE FOR USE.

WARNING

USE CAUTION NOT TO POINT LASERS INSIDE THE COCKPIT, AS THIS MAY DEGRADE ANVIS PERFORMANCE.

8E(4) PRIOR TO CONDUCTING OPERATIONS USING LASERS, UNIT COMMANDERS SHALL INCLUDE PROCEDURES REGARDING THE USE OF LASER POINTERS DURING ANVIS HELICOPTER MISSIONS IN THE UNIT SOP.

8E(5) GUIDANCE REGARDING HAZARDS ASSOCIATED WITH TACTICAL LASER POINTERS IS AVAILABLE FROM THE U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE, DSN 5843932 OR (410) 436-3932;

HTTP://CHPPM-WWW.APCGA.ARMY.MIL/LASER/INDEX. EMAIL IS *LASER@APG.AMDDO.ARMY.MIL*

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8E(5)(A) TVT-20-835, GUIDELINES FOR LASER SAFETY.

8E(5)(B) TVT-20-854, SAVPIN 705980DA, LASERS IN COMBAT AND TRAINING

8E(5)(C) TVT-20-855, SAVPIN 705981DA, LASERS, THE NEW THREAT.

8F. PHYSICAL SECURITY -

8F(1) UNITS SHOULD USE THE FOLLOWING REFERENCES AND THEIR LOCAL REQUIREMENTS FOR ANVIS PHYSICAL SECURITY AND ACCOUNTABILITY:

8F(1)(A) AR 190-51, PHYSICAL SECURITY.

8F(1)(B) DA PAM 190-51, RISK ANALYSIS FOR ARMY PROPERTY.

8F(1)(C) AR 710-2 AND AR 735-5, UNIT SUPPLY.

8F(1)(D) CECOM SECURITY CLASSIFICATION GUIDE FOR IMAGE

INTENSIFIER DEVICES

8F(2) FOR FURTHER GUIDANCE, CONTACT THE LOCAL PHYSICAL SECURITY MANAGER/OFFICER.

QUALIFIED INDIVIDUAL ASSIGNED TO THEIR UNIT, CIVILIAN OR MILITARY. ANVIS MAINTENANCE QUALIFICATION

TRAINING WILL BE CONDUCTED UTILIZING THE FOLLOWING GUIDANCE:

SI(2) (A) INDIVIDUALS CONDUCTING AVUM ANVIS MAINTENANCE WILL HAVE RECEIVED TRAINING IAW PARA SI(1)A. GRADUATES OF THE MOS 68N COURSE SINCE 23 OCTOBER 1992, HAVE RECEIVED AVUM ANVIS MAINTENANCE QUALIFICATION TRAINING.

SI(2) (B) AVUM ANVIS MAINTENANCE QUALIFICATION TRAINING WILL CONSIST OF EACH APPLICABLE TASK IAW TM 11-5855-26323&P.

SI(2) (C) ALSE PERSONNEL MUST BE TRAINED IAW PARAGRAPH SI(2)A ABOVE TO CONDUCT CONTINUITY CHECKS ON THE MOUNT WHEN INSTALLED ON THE FLIGHT HELMET. THIS TRAINING WILL BE DOCUMENTED IAW PARAGRAPH SI(4) BELOW.

SI(2) (D) AVIATORS CONDUCTING DISTORTION EVALUATIONS WILL BE TRAINED IAW TM 11-5855-263-23&P. COMMANDERS WILL DESIGNATE THE INDIVIDUALS IN WRITING AND THIS RECORD WILL BE MAINTAINED BY THE ANVIS MAINTAINER.

SI(3) ANVIS MAINTENANCE SUSTAINMENT TRAINING WILL BE CONDUCTED IAW FM 25-100, FM 25-101 AND LOCAL SOP. ACTIVE COMPONENTS WILL CONDUCT SUSTAINMENT TRAINING ON AN ANNUAL BASIS. ARMO REQUIRE AVCRAD LEVEL SUSTAINMENT TRAINING AT LEAST EVERY TWO YEARS. THE TRAINING WILL BE CONDUCTED BY THE NEXT HIGHER LEVEL MAINTENANCE. AVIM TRAINING WILL BE CONDUCTED BY A CECOM AVIONICS LAR WHO HAS BEEN TRAINED ON NVD MAINTENANCE OR, IN THE CASE OF ARMO, AN AVCRAD DESIGNATED TRAINER. THE TRAINING WILL CONSIST OF, AS A MINIMUM, HANDS-ON TRAINING OF ALL TASKS THE MAINTAINER IS AUTHORIZED TO PERFORM. THE TRAINER WILL DOCUMENT THE COMPLETION OF THE TRAINING ON A MEMORANDUM TO THE UNIT COMMANDER IDENTIFYING THE TASKS THAT WERE TRAINED. THE COMMANDER WILL INITIAL THE MEMORANDUM FOR LINE TO ACKNOWLEDGE RECEIPT. A COPY OF THE ACKNOWLEDGED MEMORANDUM WILL BE MAINTAINED ALONG WITH ALL OTHER MAINTAINER TRAINING DOCUMENTATION AND ORDERS BY THE MAINTAINER.

SI(4) TRAINER DOCUMENTATION GUIDANCE AVIM/AVUM ANVIS MAINTENANCE QUALIFICATION TRAINING WILL BE DOCUMENTED. MAINTENANCE TRAINERS WILL DOCUMENT THE TRAINING ON A MEMORANDUM WHICH LISTS EACH APPLICABLE AVIM/AVUM TASK TRAINED. THE MEMORANDUM WILL INCLUDE THE NAME, RANK, SSN, UNIT, AND SIGNATURE OF THE TRAINER. THE MEMORANDUM WILL BE MAINTAINED BY THE TRAINER AND TRAINEE FOR THE DURATION OF THE TRAINEE'S DUTY ASSIGNMENT. AN EXAMPLE OF THE MEMORANDUM IS PROVIDED IN PARAGRAPH

SI(6). UPON COMPLETION OF TRAINING, A DA FORM 87 CERTIFICATE OF TRAINING, OR EQUIVALENT, WILL BE ISSUED TO THE TRAINEE.

SI(5) TRAINER (MAINTAINER) DOCUMENTATION GUIDANCE: THE DA FORM 87, DA CERTIFICATE OF TRAINING, IS PROOF OF AVIM/AVUM ANVIS MAINTENANCE QUALIFICATION TRAINING. ADDITIONALLY, INDIVIDUALS WILL BE DESIGNATED BY THE UNIT COMMANDER AS ANVIS MAINTAINERS ON A MEMORANDUM. THE MEMORANDUM WILL INCLUDE THE NAME, RANK, SSN, AND UNIT OF THE ANVIS MAINTAINER. EXAMPLE MEMORANDUM IS PROVIDED IN PARAGRAPH SI(7).

SI(6) BELOW IS AN EXAMPLE OF THE MAINTENANCE QUALIFICATION TRAINING MEMORANDUM. THE MEMORANDUM TASK LIST IN PARAGRAPH 2 OF THE EXAMPLE WILL BE TAILORED TO THE LEVEL (AVIM/AVUM) OF TM 115855-26323&P. AVIM LEVEL TRAINING WILL ALSO INCLUDE DEMONSTRATED PROFICIENCY OF PRECISION SOLDERING TECHNIQUES.
MEMORANDUM FOR RECORD

SUBJECT: ANVIS MAINTAINER (OR REPAIRER) TRAINING CERTIFICATION

1. THE INDIVIDUAL(S) LISTED BELOW HAVE COMPLETED ANVIS MAINTENANCE QUALIFICATION TRAINING OF THE AVUM (OR AVIM AS APPLICABLE) TASKS LISTED IN TM 11-585526323&P.
2. THE INDIVIDUAL(S) ARE QUALIFIED TO PERFORM THE FOLLOWING CHECKS AND SERVICES:
 - A. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) TABLE.
 - B. INSPECTION CRITERIA FOR IMAGE INTENSIFIER OPERATION.
 - C. BLACKSPOT CHECK.
 - D. TROUBLESHOOTING.
 - E. IMAGE INTENSIFIER TEST USING THE TS-3895A/UV.
 - F. IMAGE INTENSIFIER TEST USING THE TS-4348/UV.
 - G. OBJECTIVE LENS INFINITY FOCUS CHECK.
 - H. POWER PACK TEST.
 - I. ALTERNATE POWER PACK TEST.
 - J. VISOR MOUNT CONTINUITY CHECK.
 - K. MAINTENANCE FORMS AND RECORDS.
 - L. REMOVAL AND REPLACEMENT OF THE AN/AVS-6(V1) MOUNT.
 - M. REMOVAL AND REPLACEMENT OF THE AN/AVS6(V2) MOUNT.
 - N. REMOVAL AND REPLACEMENT OF VISOR LINK.
 - O. REMOVAL AND REPLACEMENT OF MOUNT LOC-RELEASE BUTTON.
3. TRAINING WAS CONDUCTED BY JOHN D. DOE, SFC, 000-00-0000, A CO, 127TH ASB. A DA FORM 87, DA CERTIFICATE OF TRAINING HAS BEEN ISSUED TO THE TRAINEE(S).
4. THE FOLLOWING INDIVIDUAL(S) HAVE COMPLETED TRAINING AS INDICATED ABOVE:
JOHN D. DOE, CW2, 000-00-0000, B CO, 1101 AVN REGT.
JOHN P. DOE, CW4, 000-000000, CASSD, V CORPS AVN.

5. THE POC FOR THIS MEMORANDUM IS SFC JOHN D. DOE AT DSN 555-5555.

SIGNATURE BLOCK OF MAINTENANCE QUALIFICATION TRAINER
END OF EXAMPLE MEMORANDUM

8I(7) BELOW IS AN EXAMPLE OF THE UNIT ANVIS MAINTAINER/ REPAIRER MEMORANDUM. THE MEMORANDUM WILL INCLUDE THE NAME, RANK, SSN, AND UNIT OF THE MAINTAINER(S)/REPAIRER(S) AND BE SIGNED BY THE UNIT COMMANDER.

MEMORANDUM FOR RECORD

SUBJECT: ANVIS MAINTAINER (OR REPAIRER) DESIGNATION

1. THE INDIVIDUAL(S) LISTED BELOW HAVE RECEIVED MAINTENANCE QUALIFICATION TRAINING ON AN/AVS-6 NIGHT VISION GOOGLES AND ASSOCIATED TEST SETS: JOHN D. DOE, CW2, 000-00-0000, B CO, 1-101 AVN REGT.

JOHN P. DOE, CW4, 000-00-0000, CASSED, V CORPS AVN.

2. INDIVIDUAL(S) ARE AUTHORIZED TO PERFORM ALL AVUM LEVEL MAINTENANCE TASKS ON ANVIS NIGHT VISION GOOGLES.

3. INDIVIDUAL(S) ARE AUTHORIZED TO CLEAR CIRCLE RED //X// AND RED //X// STATUS SYMBOLS AS LIMITED TECHNICAL INSPECTORS (TI) IAW DA PAM 738-751.

4. POINT OF CONTACT IS THE COMMANDER, CASSED.

SIGNATURE BLOCK OF UNIT COMMANDER

END OF EXAMPLE MEMORANDUM

8J. BATTERY AND POWER PACK ASSEMBLY (BATTERY PACK) INFORMATION -

8J(1) BATTERIES AUTHORIZED FOR ANVIS ARE THE 1.5 VOLT (EVEREADY L91) LITHIUM AA, NSN 6135-01-323-6101, THE BA-5567/U LITHIUM BATTERY AND (1.5 VOLT) AA ALKALINE BATTERY, NSN 6135-00985-7945. NO OTHER BATTERIES (NICAD, MERCURY, CARBON, AND RECHARGEABLE, ETC) ARE AUTHORIZED FOR THE USE WITH THE ANVIS. THE CROCM POWER SOURCES TEAM POINT OF CONTACT IS MR. FEE LEUNG AT DSN 987-4735 OR (732)427-4735.

NOTE

AA LITHIUM BATTERIES (3.6 VOLTS), NSN 613501301-8776, ARE NOT AUTHORIZED.

8J(2) REPAIR OF THE ANVIS BATTERY PACK AND/OR CAP IS NOT AUTHORIZED.

8J(3) BATTERY PACKS MARKED WITH P/N 54490-5008900 AND MFR13567 FUNCTION THE SAME AS "G3" BATTERY PACKS. THESE BATTERY PACKS WILL BE TESTED THE SAME AS THE G3 BATTERY PACKS (THE LOW BATTERY INDICATOR (LBI) WILL BLINK DURING OPERATION).

8K. TEST SETS -

8K(1) TS-4348/UV AND TS-3895A/UV TEST SETS REQUIRE CALIBRATION EVERY 12 MONTHS. CALIBRATIONS ARE TRACKED WITH DA LABEL 80 THAT IS ATTACHED TO THE BODY OF THE TEST SET. UPON INITIAL ISSUE, TURN THE ITEMS INTO LOCAL TMDE FOR CALIBRATION (PRIOR TO USE).

8K(2) FOR MAINTENANCE GUIDANCE ON CALIBRATION FOR TS3895A/UA OR TS-4348/UV, CONTACT PM NV/RSTA, GLEN NOWAK, PARA 16A.

8K(3) TS-3895A/UV REQUIRES AN ANNUAL OPTICAL CHECK USING COLLIMATION ATTACHMENT AND DIOPTRIC SCOPE IAW TM 115855-264-14.

SCHEDULE AND DOCUMENT THE ANNUAL INSPECTION IAW DA PAM 738-751.

8K(4) TM 11-5855-264-14, PAGE 5-7, ITEM NUMBER 3, TABLE 5-1:

DELETE THE VOLTAGE VERIFICATION CHECK ONLY FOR THE TS3895A/UV FROM THE AVIM, DS/GS ANNUAL MAINTENANCE SCHEDULE.

8K(5) THE USE OF THE RADIOMETRIC TEST SET (INTERFEROMETER, NSN 5860-01-178-5837) AFTER REPLACING THE TS-3895A/UV PC BOARD BOX ASSEMBLY OR THE RETICLE LENS ASSEMBLY AT AVIM, DS/GS IS NO LONGER REQUIRED. AFTER REPLACING THESE ITEMS, SEND THE TS3895A/UV TO TMDE FOR CALIBRATION.

8K(6) THE CORRECT NSN AND P/N FOR THE TS-3895A, GOOGLE CONNECTOR CABLE (POWER), IS NSN 5855-01151-4212, AND P/N 5003265.

8K(7) AN/AVS-6 SYSTEMS USING MX10160A IMAGE INTENSIFIER TUBES ARE NOT REQUIRED TO PASS THE SYSTEM CURRENT DRAIN CHECK USING THE TS-3895A LISTED AS PART OF THE 6 MONTH SERVICE IN TM 115855-263-238P.

8K(8) COMMERCIAL TEST SETS ARE NOT AUTHORIZED FOR USE AT THE AVIM, AVUM, OR DS/GS MAINTENANCE LEVELS. TS-3895A/UV AND TS-4348 ARE THE ONLY TEST SETS AUTHORIZED FOR USE TO MEET ARMY MAINTENANCE REQUIREMENTS.

8L. MODIFICATION WORK ORDERS (MWO) -

8L(1) THE FOLLOWING MWOs MUST BE APPLIED TO AIRCRAFT PRIOR TO NVG OPERATIONS. (AIRCRAFT WITH NVG COMPATIBLE COMPONENTS THAT HAVE BEEN REPLACED SINCE INITIAL APPLICATION OF MWO AND NOT MEET INTERIOR LIGHTING REQUIREMENTS MUST ELIMINATE THE EFFECTS OF RED OR WHITE LIGHTING IAW PARA 8M(1)).

8L(1) (A) H-60 SERIES - FOR NVG OPERATIONS: AIRCRAFT S/N 8524462 AND SUBSEQUENT ARE AUTHORIZED FOR NVG USE WHEN DELIVERED WITH EXCEPTIONS LISTED BELOW. AIRCRAFT S/N 8524461 AND PRIOR SHALL HAVE MWO 55-1520237-50-20 INSTALLED. AIRCRAFT 85-24745 THRU 85-24750, 85-25511, AND 8525512 SHALL HAVE MWO 55-1520-23750-20 INSTALLED. ALL AIRCRAFT SHALL COMPLY WITH TS 1-1520237-20139 (UH-60-94-ASAM-01). RED LIGHTING FROM PDU AND CDU IS

FILTERED AND NVG COMPATIBLE.

8L(1)(B) UH-1H/V - FOR NVG OPERATIONS; MWO 551520-210-50-7 AND MWO 551520-210-50-11 SHALL BOTH BE INSTALLED. OTHERWISE, EITHER MWO 55-1520-210-50-10 OR MWO 55-1520-210-50-12 SHALL BE INSTALLED. AIRCRAFT SHALL COMPLY WITH TB 1-1520-24320-24 (UH-197-ASAM-02) WHICH REMOVES OBSCURING PAINT OR TAPE APPLIED BY THE AFOREMENTIONED MWOS. AIRCRAFT SHALL COMPLY WITH UH-197-ASAM-05 WHICH APPLIES THE CORRECT PAINT SCHEME TO POSITION LIGHTS AFTER REMOVAL OF UH-1-97-ASAM-02. THIS CHANGE IS REQUIRED IN ORDER TO COMPLY WITH FAA REGULATIONS FOR NIGHT OPERATIONS IN CIVIL AIRSPACE.

NOTE

FOR UH-1H/V AIRCRAFT WITH THE AN/ARC-186 RADIO AND/OR THE AN/ARC-164 UHF RADIO INSTALLED. UNTIL NVG COMPATIBLE LIGHTING IS AVAILABLE, DISABLE THE LIGHTING TO THE CONTROL VIA THE FOLLOWING PROCEDURES:

8L(1)(B)(1) IF THE C-10604/ARC-186 OR THE C10606/ARC-186 IS INSTALLED AS A RESULT OF MWO 55-1520210-50-14, DISABLE THE CONTROL HEAD LIGHTING WIRE BY REMOVING THE TERMINAL LUG FOR WIRE NUMBER ARC186 19A22 FROM TB12, PIN 3. CAP AND STOW WIRE FOR FUTURE USE. THIS WIRE MAY BE RECONNECTED WHEN THE CONTROL IS MODIFIED WITH NVG COMPATIBLE LIGHTING.

8L(1)(B)(2) IF THE C-10604 OR C-10606 IS NOT INSTALLED PER AN MWO (I.E. AN/ARC-186 RADIO IS LOCATED IN THE REAR OF THE AIRCRAFT, RIGHT SIDE, ON TOP OF THE PREVIOUSLY INSTALLED RT857/ARC-134 RADIO MOUNT), DISABLE THE CONTROL HEAD WIRE BY REMOVING THE TERMINAL LUG FOR WIRE NUMBER ARC134-35A20 FROM TB12, PIN 2. CAP AND STOW THE WIRE FOR FUTURE USE. THIS WIRE MAY BE RECONNECTED WHEN THE CONTROL IS MODIFIED WITH NVG COMPATIBLE LIGHTING.

8L(1)(B)(3) IF THE RT-1354/ARC-186 (RED LIGHTING) IS INSTALLED IN LIEU OF THE AN/ARC-115, THE LIGHTING MUST BE DISABLED BY CUTTING WIRE NUMBER ARC 1153A22 GOING TO PIN C OF THE AN/ARC-115 RADIO CONNECTOR P1151. CAP AND STOW THE WIRE FOR FUTURE USE. THIS WIRE MAY BE RECONNECTED WHEN THE RADIO IS MODIFIED WITH NVG COMPATIBLE LIGHTING.

8L(1)(B)(4) IF THE AN/ARC-518X UHF RADIO OR THE C9682B/ ARC164 HAVEQUICK CONTROL IS INSTALLED, DISABLE THE LIGHTING WIRE BY CUTTING WIRE NUMBER L122A20 GOING TO PIN P OF THE C-6287/ARC-518X OR C9682B/ARC-164 CONTROL CONNECTOR NO.P3801. CAP AND STOW THE WIRE FOR FUTURE USE.

8L(1)(B)(5) IF THE C-9682C/ARC-164 HAVEQUICK CONTROL OR THE L1721/ARC-164 CONTROL IS INSTALLED, THE LIGHTING MAY BE ENABLED BY RECONNECTING WIRE NO. L122A20 GOING TO PIN P OF RADIO CONNECTOR P3801.

8L(1)(B)(6) IF THE PANEL MOUNT ARC 164 RADIO (RT 1518C) IS INSTALLED WITH NVG COMPATIBLE LIGHTING, LIGHTING TO THE RADIO MAY BE ACTIVATED BY COMPLETING THE CONNECTION OF WIRE NUMBER ARC 1643A22 FROM THE ARC-164 RADIO CONNECTOR NUMBER P1, PIN C TO TB12, PIN 1. IF THE LIGHTING IS NOT ANVIS COMPATIBLE, THE LIGHTING MUST BE DISABLED BY DISCONNECTING WIRE NO. ARC 164-3A22 FROM TB12, PIN 1. SEE PARAGRAPH 8L(2) FOR AVIONICS APPROVED FOR NVG USE.

8L(1)(B)(7) USE OF THE ID-2192A/ARN124 INDICATOR IS AUTHORIZED FOR NVG MISSIONS IN THE UH1H/V AIRCRAFT.

8L(1)(C) OH-58A - MWO 55-1520-228-50-31 SHALL BE INSTALLED FOR NVG USE.

8L(1)(D) OH-58C - MWO 55-1520-228-50-32 SHALL BE INSTALLED FOR NVG USE.

8L(1)(E) OH-58D KICOMA WARRIOR - ANVIS USE IS PROHIBITED WHEN THE HAMILTON STANDARD PILOT DISPLAY UNIT (PDU) IS INSTALLED. ALL AIRCRAFT FROM PRODUCTION AND RETROFIT LINES ARE CONSIDERED ACCEPTABLE FOR NVG USE, NO MWO IS REQUIRED. USE OF THE ANVIS DISPLAY SYMBOLOGY SYSTEM OPTICAL DISPLAY ASSEMBLY IS AUTHORIZED.

8L(1)(F) CH-47D - AIRCRAFT S/N 84-24187 AND PRIOR SHALL HAVE MWO 55-1520-240-50-3 INSTALLED FOR NVG USE. ALL OTHER CH-47D AIRCRAFT ARE AUTHORIZED FOR NVG USE WHEN DELIVERED.

8L(1)(G) AH-1S - MWO 55-1520-234-50-1 AND MWO 55-1520-23450-4 SHALL BE INSTALLED FOR NVG USE.

8L(1)(H) AH-1E, F AND P - MWO 551520-236-50-4 AND MWO 551520-236-50-5 SHALL BE INSTALLED FOR NVG USE.

8L(2) AVIONICS MWOS HAVE BEEN APPROVED AND ANVIS LIGHTING UPGRADE/MODIFICATION LIGHTING KITS ON AVIONICS COMPONENTS LISTED BELOW ARE AVAILABLE FROM USACECOM.

8L(2)(A) LISTED ITEMS HAVE BEEN IDENTIFIED AS THE PRIMARY AVIONICS COMPONENTS REQUIRING ANVIS BLUESCREEN LIGHTING UPGRADE/MODIFICATION:

| AVIONICS COMPONENT/LRU | ANVIS LIGHTING MOD KIT NSN | EST MAN.HR. TO INSTALL/LOCATION |
|------------------------------|----------------------------|---------------------------------|
| 1252/ASN-128 DOPP RDR | N/A | 10 (DEPOT ONLY) |
| AN/ARC-164 UHF/AM RADIO | 1680-01-342-6491 | 3 (AVIM) |
| RT-1354/ARC-186 VHF/AM RADIO | 1680-01-342-6490 | 3 (AVIM) |
| C-10604/ARC-186 VHF/AM RADIO | | |
| CNTRL | 1680-01-342-6492 | 3 (AVIM) |
| C-10606/ARC-186 VHF/AM RADIO | | |
| CNTRL | 5821-01-209-0109 | 3 (AVIM) |

RT-1285/APX-100 TRANSPONDER/IFF 1680-01342-6489 6 (AVIM)
 RT-1296/APX-100 TRANSPONDER/IFF 1680-01-3426488 6 (AVIM)
 C-10533/APX-100 TRANSPONDER/IFF 168001-342-6487 6 (AVIM)
 AN/ARC-114 VHF/FM RADIO 1680-01-342-6494 3 (AVIM)
 ID-2192/ARN-124 DME CONTROL 1680-01-407-4440 3 (AVIM)
 392A/ARN-89 ADF CONTROL 6210-01-230-0531 0.5 (AVUM)
 0048/ARN-123 VOR CONTROL 5895-01-346-1368 5 (AVIM)
 C-6533/ARC INTERCOM 6210-01-2309106 SEE TM (AVUM/AVIM)

8L(2)(B) WITH THE EXCEPTION OF THE CP1252/ASN128, ALL ANVIS LIGHTING UPGRADE/MODIFICATION KIT MWSG CAN BE INSTALLED AT THE AVIM LEVEL. ALL ASSETS FOR THE ABOVE COMPONENTS/LRUS RECEIVED FROM PROCUREMENT OR OVERHAUL ACTIONS ARE NOW BEING ISSUED WITH NVG COMPATIBLE LIGHTING. THE C10048/ARN-123 LIGHTING UPGRADE KIT MAY NOW BE INSTALLED AT THE AVIM LEVEL, AND IS AVAILABLE THROUGH USACECOM. KITS MAY BE ORDERED THROUGH THE EQUIPMENT MANAGER FOR THE VARIOUS SYSTEMS.

8L(2)(C) THE C7392A/ARN-89 ADF (NSN 6210-01-2300531, P/N BGD-0929-1) AND THE C-6533/ARC INTERCOM (NSN 621001-2303109, P/N BGD-0929-5) REQUIRE ONLY A FILTER CHANGE TO BECOME NVG COMPATIBLE. THIS MODIFICATION CAN BE DONE AT THE AVUM/AVIM LEVEL IAW THE APPLICABLE TM.

8L(2)(D) CECOM ANVIS LIGHTING KIT POC IS MR. ROBERT MANSFIELD, DSN 992-3800 OR (732) 532-3800. EMAIL IS "MANSFIELD@MAIL1.MONMOUTH.ARMY.MIL" OR MR. DWIGHT DEATHERAGE, DSN 992-1626 OR (732) 5321626.
 EMAIL IS "DEATHERA@MAIL1.MONMOUTH.ARMY.MIL".

PART 3 OF 3 PARTS

8M. AIRCRAFT LIGHTING -

8M(1) COMPONENT LIGHTING - LIGHTING OF ANY RADIO CONTROL, SWITCH PANEL, INSTRUMENT, MASTER CAUTION LIGHT, ETC. WHICH DEGRADES THE PERFORMANCE OF THE ANVIS MUST BE ATTENUATED TO ELIMINATE EFFECTS OF LIGHTING PRIOR TO CONDUCTING NVG OPERATIONS.

NOTE

EFFECTS OF LIGHTING FROM NONSTANDARD EQUIPMENT MUST BE ELIMINATED IAW THE ABOVE PARAGRAPH PRIOR TO CONDUCTING NVG OPERATIONS, UNLESS THE APPLICABLE AIRWORTHINESS RELEASE (AWR) SPECIFICALLY AUTHORIZES THE USE OF LIGHTING FROM NONSTANDARD EQUIPMENT DURING NVG OPERATIONS.

8M(2) IR BANDPASS FILTERS -

8M(2)(A) THE IR FILTER (PINK LIGHT), P/N BGD0931-1 MAY BE INSTALLED IAW THE APPLICABLE AIRCRAFT MWO, AIRCRAFT OPERATOR'S /MAINTENANCE MANUALS, OR IN THE ABSENCE OF MWO INSTRUCTION, BASED ON THE OPERATIONAL REQUIREMENTS OF THE USER.

8M(2)(B) UNITS ARE AUTHORIZED TO USE THE BULB WHICH BEST SUITS THEIR OPERATIONAL ENVIRONMENT AND MISSION AS FOLLOWS:

| P/N: | NSN: | VOLTAGE | WATTAGE | CANDLEPOWER |
|------|------------------|---------|---------|-------------|
| 4571 | 6240-00-690-1094 | 28.0 | 150 | 7,000 |
| 4551 | 6240-00-583-3334 | 28.0 | 250 | 75,000 |
| 4553 | 6240-00-816-4808 | 28.0 | 250 | 300,000 |
| 4596 | 6240-00-577-8450 | 28.0 | 250 | 150,000 |
| 4626 | 6240-00-917-0771 | 28.0 | 150 | 3,000 |

NOTE

MAXIMUM PERMISSIBLE WATTAGE IS 250 WATTS.

BEAM SPREAD:

| P/N | HORIZONTAL: | VERTICAL: |
|------|-------------|------------|
| 4571 | 80 DEGREES | 25 DEGREES |
| 4551 | 50 DEGREES | 10 DEGREES |
| 4553 | 11 DEGREES | 12 DEGREES |
| 4596 | 11 DEGREES | 12 DEGREES |
| 4626 | 9 DEGREES | 40 DEGREES |

8N. FORMS AND RECORDS-

8N(1) THE PURPOSE OF THIS SECTION IS TO UPDATE PRESENT AVIATION NIGHT VISION GOOGLE MAINTENANCE DOCUMENTATION REQUIREMENTS.

NOTE

RED //X// STATUS SYMBOLS MUST BE CLEARED BY A QUALIFIED INDIVIDUAL DESIGNATED IN WRITING BY THE UNIT COMMANDER PER DA FAM 738-751.

8N(2) DA FORMS 2407 (MAINTENANCE REQUEST). THIS FORM WILL BE USED WHEN AVIM LEVEL MAINTENANCE IS PERFORMED OR WHEN ANVIS ARE FORWARDED TO A HIGHER MAINTENANCE LEVEL FOR SCHEDULED OR UNSCHEDULED MAINTENANCE. USE A SINGLE DA FORM 2407 FOR EACH ANVIS, DO NOT COMBINE TWO OR MORE ANVIS ON A SINGLE DA FORM 2407. DOCUMENT EACH INDIVIDUAL INSPECTION TASK COMPLETED ON THE FORM. AFTER COMPLETION OF THE MAINTENANCE AND RECEIPT OF ANVIS, PLACE THE

ORGANIZATIONAL COPY IN THE POCKET LOCATED INSIDE THE BACK COVER OF THE LOGBOOK. MAINTAIN THE FORM UNTIL 6MONTH SERVICE IS COMPLETED. IN ORGANIZATIONS WHERE AVUM AND AVIM MAINTENANCE IS CONDUCTED BY THE SAME SHOP, A DA FORM 2407 IS REQUIRED TO DOCUMENT COMPLETION OF AVIM MAINTENANCE.

SN(3) ALL RECORDS WILL ACCOMPANY EQUIPMENT TO AVIM WHEN EQUIPMENT IS SUBMITTED FOR AVIM-HEL INSPECTION/REPAIR.

SN(4) ALL POWER PACKS REQUIRE A 3MONTH PMCS AND A 6-MONTH SERVICE IAW THE APPROPRIATE TM. THESE DATES SHOULD ALIGN WITH THE ANVIS INSPECTION DATES.

SN(5) 120 DAY VISOR/MOUNT CHECK DOCUMENTATION REQUIREMENTS.

SN(5) (A) ALL VISORS/MOUNTS WHICH ARE PLACED INTO SERVICE ARE REQUIRED TO HAVE A 120 DAY CONTINUITY CHECK.

SN(5) (B) RECORD INSPECTIONS FOR ASSIGNED VISORS/MOUNTS ON THE DA FORM 2408-22 FOR THE HELMET TO WHICH IT IS ASSIGNED.

SN(5) (C) ADDITIONAL VISOR/MOUNT(S) NOT IN USE WILL BE TAGGED IAW DA PAM 738-751. A DA FORM 2408-22 IS NOT REQUIRED FOR EACH ADDITIONAL VISOR/MOUNT ON HAND.

SN(5) (D) CONTINUITY CHECKS MAY BE CONDUCTED BY ALSE PERSONNEL. REFER TO SI(2) (C) FOR TRAINING REQUIREMENTS.

SN(6) DISTORTION TESTING-

SN(6) (A) CONDUCT A DISTORTION TEST FOR THE FOLLOWING CONDITIONS:

SN(6) (A) (1) SERVICE UPON RECEIPT OF MATERIAL (NEWLY FIELDED ANVIS OR NEWLY ASSIGNED ANVIS WITHOUT SUCCESSFUL DISTORTION EVALUATION DOCUMENTATION).

SN(6) (A) (2) REPLACEMENT OF IMAGE INTENSIFIER TUBE(S).

SN(6) (A) (3) RECEIPT OF ANVIS WITH A DD FORM 1576 ATTACHED.

SN(6) (B) DOCUMENT ALL DISTORTION TESTS AND RESULTS ON A DA FORM 2408-30 TO INCLUDE THE SIGNATURES OF BOTH NVG PILOTS WHO PERFORMED EVALUATION. THE COMPLETION OF A SUCCESSFUL DISTORTION TEST WILL ALSO BE DOCUMENTED ON THE DA FORM 2408-15.

SN(7) ANVIS MAINTENANCE INTERVALS ANVIS MAINTENANCE INTERVALS ARE REDEFINED AS FOLLOWS:

SN(7) (A) CHANGE ALL DOCUMENTATION AND REFERENCES FOR ANVIS 90-DAY INSPECTION TO 3-MONTH INSPECTION (DAY/MONTH/YEAR). THE INSPECTION WINDOW WILL BE +/- 9 DAYS OF THE INSPECTION DATE. THIS CHANGE AFFECTS TM

11-5855-263-10, TM 11-5855-263-234P, AND DA PAM 738751.

SN(7) (B) CHANGE ALL DOCUMENTATION AND REFERENCES FOR ANVIS 180-DAY INSPECTION INTERVAL TO 6-MONTH INSPECTION (DAY/MONTH/YEAR). THE INSPECTION WILL BE +/- 18 DAYS OF THE INSPECTION

.E. THIS CHANGE AFFECTS TM 115855-263-10, TM 115855-263-234P, AND DA PAM 738-751.

PART 3 OF 3 PARTS

80. NVG VISOR HOUSING MODIFICATION -

80(1) AVSCOM MESSAGE GEN-92-ASAM-06, DATED 301400Z MAR 92, STATED THAT THE SPH-4B DUAL VISOR WILL NOT BE USED WITH THE AVIATOR'S NIGHT VISION IMAGING SYSTEM (ANVIS). AN ARMY STUDY INDICATED THAT SOME PILOTS USING THE DUAL VISOR ASSEMBLY (DVA) WITH THE SPH-4B HELMET REQUIRED ADDITIONAL UPWARD TILT RANGE. AS A RESULT OF FURTHER TESTING, CERTAIN PROCEDURES ARE CONSIDERED NECESSARY AND MUST BE COMPLETED PRIOR TO THE FIRST NVG FLIGHT WITH THE SPH-4B.

80(2) THIS SECTION AUTHORIZES USE OF ANVIS WITH THE SPH4B HELMET PROVIDED THE FOLLOWING PROCEDURES ARE FOLLOWED:

80(2) (A) REMOVAL OF THE CABLE AND MOUNT FROM THE ANVIS VISOR HOUSING.

80(2) (B) REPAIR TO THE CABLE ASSEMBLY.

80(2) (C) ATTACHMENT OF THE ANVIS MOUNT TO THE SPH-4B HELMET.

80(2) (D) CONVERSION OF THE ANVIS(V)2 MOUNT TO THE ANVIS(V)1 MOUNT.

80(2) (E) DOCUMENTATION OF VISOR CONTINUITY CHECK.

80(3) CYLINDER 822 ANAEROBIC ADHESIVE MADE BY HERMON MANUFACTURING INC. (GREEN LIQUID WITH A MILD COLOR) IS NOT AUTHORIZED FOR USE ON NVG EQUIPMENT. REPORTS INDICATE THAT THIS ADHESIVE IS BEING USED TO SECURE SCREWS WHEN INSTALLING AN/AVS-6 VISOR SHIELD TO THE HELMET. THIS SPECIFIC ADHESIVE CAUSES SEVERE DAMAGE TO ALL NVG PLASTIC PARTS AND SHALL NOT BE USED.

NOTE

UNITS MAY ORDER AN ANVIS(V)1A MOUNT (NSN 5855-01-451-7389), OR AN ANVIS(V)2 MOUNT, (NSN 5855-01-151-4230) AND MODIFY IT. THEY MAY ALSO REMOVE THE CABLE AND MOUNT ASSEMBLY FROM AN ANVIS(V)1 (5855-01-151-4229) VISOR HOUSING.

80(4) MAINTENANCE INSTRUCTIONS FOR REMOVING THE CABLE AND MOUNT ASSEMBLY FROM THE ANVIS VISOR HOUSING. THIS PROCEDURE MUST BE PERFORMED BY AVIM.

80(4) (A) MATERIEL AND TOOL REQUIREMENT:

80(4) (A) (1) CLEAN-UP SOLVENT, NSN 6850-01-228-7266 (ITEM NO. 76820, 2 OZ BOTTLE).

80(4) (A) (2) KNIFE, POCKET; ELECTRICIANS, NSN 5110-00240-5943.

80(4) (A) (3) SCREWDRIIVER, CROSS TIP, PHILLIPS, NO 1X3 INCHES, NSN 5120-00-240-8716.

80(4) (A) (4) ABSORBENT TOWEL.

80(4) (A) (5) COTTON SWAB.

WARNING

TO PREVENT BODILY INJURY, AND DAMAGE TO THE CABLE OR VISOR HOUSING, CAREFULLY USE THE ELECTRICIAN'S KNIFE ON BOTH SIDES OF THE CABLE TO HELP FREE IT FROM THE VISOR HOUSING GROOVE.

- 80(4) (B) REMOVE THE CABLE FROM THE VISOR HOUSING.
- 80(4) (C) AFTER THE CABLE HAS BEEN FREED FROM THE VISOR HOUSING, REMOVE THE FOUR SCREWS ON THE BACK OF THE VISOR HOUSING, AND REMOVE THE MOUNT ASSEMBLY.
- 80(4) (D) CAREFULLY PUSH THE RUBBER GROMMET OUTWARD FROM THE INSIDE OF THE VISOR HOUSING AND THEN PULL THE CABLE THROUGH THE HOLE IN THE VISOR HOUSING.
- 80(4) (E) VISUALLY INSPECT THE CABLE FOR OBVIOUS DAMAGE TO THE PLASTIC COATING. IF THE COATING IS SERVICEABLE, PROCEED TO STEP F BELOW. IF THE COATING HAS BEEN DAMAGED, PROCEED TO PARAGRAPH 80(5) BELOW.
- 80(4) (F) PERFORM THE VISOR CONTINUITY CHECK IAW TM 11-5855263-234P
- 80(4) (F) (1) IF THE ASSEMBLY FAILS THE CONTINUITY CHECK, DISCARD THE CABLE AND MOUNT.
- 80(4) (F) (2) IF THE ASSEMBLY PASSES THE CONTINUITY CHECK, PROCEED TO PARAGRAPH 80(6).
- 80(5). MAINTENANCE INSTRUCTIONS FOR REPAIR TO THE PLASTIC COATING - THESE PROCEDURES MUST BE PERFORMED BY AVIM.
- 80(5) (A) MATERIAL AND TOOL REQUIREMENT: 1-INCH PIECE OF ONEQUARTERINCH BLACK HEAT SHRINK, NSN 597000-8151295.
- 80(5) (B) PROCEDURE:

NOTE

THE FOLLOWING STEPS MUST BE READ AND UNDERSTOOD BEFORE ATTEMPTING TO COMPLETE THE MAINTENANCE PROCEDURE.

- 80(5) (B) (1) UNSCREW THE ELECTRICAL CONNECTOR LOCATED AT THE END OF THE CABLE. CAREFULLY SLIDE THE TOP OF THE CONNECTOR OFF THE BLACK PLUG. IDENTIFY THE TWO INSERT KEYS AND THEIR POSITIONS (EACH KEY IS DIFFERENT). HOLD THEM IN PLACE WHILE PERFORMING THE FOLLOWING STEPS. IF THE INSERT KEY(S) FALL OFF DURING DISASSEMBLY OR REASSEMBLY OF THE CONNECTOR, REINSTALL THEM IMMEDIATELY IAW THE CAUTION BELOW.

CAUTION

FAILURE TO PERFORM THIS PROCEDURE CORRECTLY MAY LEAD TO A SYSTEM FAILURE. TO REINSTALL THE INSERT KEYS, PLACE THE KEY WITH THE SINGLE TAB INTO THE SLOT LOCATED ON THE METAL BASE OF THE CONNECTOR. ALIGN THE OTHER END OF THE KEY (END WITH TWO TABS) ON THE SPLINE LOCATED ON THE BLACK PLUG. THE SPLINE MUST BE ALIGNED BETWEEN THE TWO TABS. PUT THE KEY WITH THE BEVELED END INTO PLACE. THE BEVELED END MUST BE PLACED ON THE BLACK PLUG.

- 80(5) (B) (2) WITHOUT TWISTING THE BLACK PLUG, SLIDE OVER THE BLACK PLUG AND CABLE. ENSURE THE NEW HEAT SHRINK OVERLAPS THE EXISTING HEAT SHRINK AND BUTTS UP AGAINST THE METAL BASE OF THE CONNECTOR END OF THE CABLE.
- 80(5) (B) (3) CAREFULLY SLIDE THE HEAT SHRINK OVER THE BLACK PLUG AND CABLE. ENSURE THE NEW HEAT SHRINK OVERLAPS THE EXISTING HEAT SHRINK AND BUTTS UP AGAINST THE METAL BASE OF THE CONNECTOR END OF THE CABLE.
- 80(5) (B) (4) SHRINK THE TUBING ONTO THE CABLE. DURING THE SHRINKING PROCESS, ENSURE THE NEW HEAT SHRINK COVERS ALL EXPOSED CABLE AND OVERLAPS THE EXISTING HEAT SHRINK.
- 80(5) (B) (5) SLIDE THE TOP PORTION OF THE CONNECTOR OVER THE BLACK PLUG AND INSERT KEYS. TURN THE CONNECTOR UNTIL IT CLICKS INTO PLACE. THE CLICK MEANS THAT THE CONNECTOR IS PROPERLY ALIGNED WITH THE INSERT KEYS.
- 80(5) (B) (6) SLIDE THE BOTTOM PORTION OF THE CONNECTOR UP THE CABLE AND SCREW IT INTO THE TOP CONNECTOR. HAND TIGHTEN ONLY.

NOTE

IF THE CONNECTOR HAS BEEN ASSEMBLED PROPERLY, THERE WILL NOT BE ANY EXPOSED THREADS BETWEEN THE TOP AND BOTTOM PARTS OF THE CONNECTOR.

- 80(5) (B) (7) PERFORM THE VISOR MOUNT CONTINUITY CHECK PER PARAGRAPH 2-16 OF TM 11-5855-263-234P. IF THE ASSEMBLY FAILS THE VISOR CONTINUITY CHECK, DISCARD THE CABLE END MOUNT.
- 80(6) ATTACHMENT OF THE CABLE AND MOUNT ASSEMBLY TO THE SPH4B DUAL VISOR - THIS PROCEDURE SHOULD BE PERFORMED BY AVIM. FOLLOW THE INSTRUCTIONS OUTLINED IN THE SPH-4B ANVIS ATTACHMENT KIT INSTALLATION GUIDE. INSTRUCTIONS ARE PROVIDED WITH EACH SPH4B HELMET AND WITH SEPARATELY ORDERED DUAL VISOR ASSEMBLIES.
- 80(6) (A) ANVIS(V2) OFFSET MOUNT - A MODIFIED (V2) MOUNT ASSEMBLY MAY BE ATTACHED TO THE SPH-4B VISOR HOUSING. THIS PROCEDURE SHOULD BE ACCOMPLISHED BY AVIM.
- 80(6) (A) (1) MATERIAL AND TOOL REQUIREMENT:
- 80(6) (A) (1) (A) ANVIS(V2) OFFSET MOUNT.
- 80(6) (A) (1) (B) SCREWDRIVER, CROSS TIP, PHILLIPS, NO. 1X3 INCHES, NSN 5120-00-240-8716.

80(6) (A) (2) PROCEDURES:

80(6) (A) (2) (A) ORDER THE ANVIS(V2) OFFSET MOUNT ASSEMBLY, NSN 5855-01-151-4230.

80(6) (A) (2) (B) MODIFY THE ANVIS(V2) OFFSET MOUNT BY REMOVING THE FOUR SCREWS AND RACKPLATE. THIS MODIFICATION CONVERTS AN ANVIS(V2) TO AN ANVIS (V1) MOUNT.

80(6) (A) (2) (C) FOLLOW THE INSTRUCTIONS OUTLINED IN THE "SPH4B ANVIS ATTACHMENT KIT INSTALLATION GUIDE" TO COMPLETE ATTACHMENT OF THE MOUNT TO THE SPH4B DUAL VISOR HOUSING.

80(6) (A) (2) (D) VISOR CONTINUITY CHECK - PERFORM THE VISOR CONTINUITY CHECK PER PARAGRAPH 2-16 OF TM 11-5855-26323&P. DOCUMENT SUCCESSFUL ACCOMPLISHMENT OF THE CONTINUITY CHECK ON DA FORM 2408-22 (HELMET AND OXYGEN MASK/CONNECTOR INSPECTION RECORD).

80(7) PRIOR TO THE NIGHT VISION GOGGLE (NVG) FLIGHT WITH THE SPH-4B HELMET, THE OPERATIONAL PROCEDURES DETAILED IN PARAGRAPH 26 OF TM 11-5855-263-10 MUST BE PERFORMED. PARTICULAR ATTENTION SHOULD BE MADE TO THE TILT RANGE OF THE MOUNTED NVG.

NOTE

IT IS IMPERATIVE THAT THE AVIATOR CONTINUE TO MAXIMIZE THE USE OF NVG SCANNING TECHNIQUES TO MINIMIZE ANY RISK ASSOCIATED WITH INADEQUATE TILT ADJUSTMENT.

80(7) (A) IF ADEQUATE TILT OR VERTICAL RANGE IS NOT AVAILABLE FOR SAFE NVG FLIGHT, HAVE THE AVIATION LIFE SUPPORT EQUIPMENT (ALSE) PERSONNEL CUSTOM FIT THE THERMAL PLASTIC LINER (TPL) WITH EXISTING GUIDANCE. THIS GUIDANCE IS OUTLINED IN THE MAINTENANCE INSTRUCTIONS THAT COME WITH THE SPH-4B HELMET. THE U.S. ARMY AEROMEDICAL RESEARCH LABORATORY (USAARL) DEVELOPED ADDITIONAL FITTING PROCEDURES TO ASSIST THE ALSE TECHNICIAN. FOR THESE PROCEDURES CONTACT: MR. JOE LUCINA, DSN 558-6893 OR (334) 255-6893 ; OR CWS RODNEY THOMAS, DSN 558-6895 OR (334) 255-6895.

80(7) (B) IF AN ADEQUATE CUSTOM FIT CANNOT BE OBTAINED, THE USER MUST USE THE SINGLE ANVIS VISOR HOUSING ASSEMBLY FOR NVG FLIGHT.

8P. HELMETS -

8P(1) PROBLEMS HAVE BEEN REPORTED WITH THE METAL CLIP IN THE SPH-4B ANVIS ATTACHMENT KIT. THE RETAINING SCREWS THAT SECURE THE CLIP TO THE VISOR BECOME LOOSE AFTER MINIMAL USE. THE CLIP WILL NOT TIGHTEN ENOUGH TO SECURE THE NVG CABLE AND OTHERS. RECOMMEND USING CLAMP LOOP, NSN 5340-00-434-9596, TO PROPERLY SECURE THE NVG CABLE CONNECTOR TO THE HELMET.

8P(2) THE IHADSS HELMET FOR THE AH-64 HELICOPTER DOES NOT ALLOW THE INSTALLATION OF AN ANVIS MOUNT ON THE ORIGINAL VISOR. THE ANVIS/APACHE VISOR ADAPTER KIT (P/N 544905009399) MAY BE USED TO INSTALL AN SPH-4 HELMET VISOR ON THE IHADSS HELMET. THE POC TO ACQUIRING THIS ADAPTER KIT IS MR. CLINTON THACKER, NVEED, DSN 654-1328, OR (703)704-1328.

8Q MISCELLANEOUS INFORMATION -

8Q(1) A MAINTAINER MAY ALSO BE ON ORDERS AS A TECHNICAL INSPECTOR (TI) AT THE DISCRETION OF THE COMMANDER. A MAINTAINER SHALL NOT SIGN OFF HIS/HER OWN WORK AS THE TI.

8Q(2) THE ANVIS TUBE RETAINER RING, NSN 5855-01151-4226, MATERIAL HAS BEEN CHANGED FROM PLASTIC TO METAL. EITHER MATERIAL IS APPROVED FOR USE.

8Q(3) REPAIR OF THE ANVIS MOUNT ASSEMBLY IS LIMITED TO THE REPAIR OF THE SHIELDED CABLE.

8Q(4) REMOVE THE EXISTING TAMPER MARK FROM THE SIX O'CLOCK POSITION ON THE EYEPIECE. RE-MARK THE EYEPIECE AT THE TWELVE O'CLOCK POSITION. THIS AFFECTS THE FOLLOWING PUBLICATIONS: TM 11-5855-263-10, TABLE 2-2, STEP 13; TM 11-5855-263-23&P, TABLE 21, PWCS, SEQUENCE NUMBER 8 AND SETTING COLLIMATION, PARAGRAPH 315, STEP 23 (OPERATIONAL) AND PARAGRAPH 3-16, STEP 10. THE USE OF A MARKING MATERIAL OTHER THAN THE PRESCRIBED LACQUER IS PROHIBITED.

WARNING

USE OF ANY NYLON CORD AS AN ANVIS NECK CORD IS UNAUTHORIZED. THE NYLON MAY PRESENT A SEVERE BURNING HAZARD IN THE EVENT OF A FLASH FIRE. REFER TO TM 11-5855-263-10 FOR NECK CORD ASSEMBLY NSN.

8Q(5) ANVIS SYSTEMS, WITH THE EXCEPTION OF AN/AVS6(V)2, WILL INSTALL THE NECK CORD ASSEMBLY WITH THE KNOT TIED ON TOP OF THE PAS. WHEN INSTALLING THE BARREL CONNECTOR, THE HUD NECK CORD ASSEMBLY WILL BE THREADED UP THROUGH THE PAS WITH THE BARREL CONNECTOR ON TOP.

8Q(6) TM 11-5855-263-10, DTD 1 MAR 94, TABLE 2-2 PAGE 2-11, STEP 13, "NOT USABLE" IF COLUMN, ADD THE FOLLOWING: "AIRCREW WILL CHECK THAT BOTH EYEPIECES ARE IDENTICAL (EITHER TWO 15 MM EYEPIECES OR TWO 25 MM EYEPIECES)".

8Q(7) TM 11-5855-263-10, DTD 1 MAR 94, PAGE B-6, SECTION 3, BASIC ISSUE ITEMS, ILLUSTRATION NO. 6, CHANGE NSN FOR NECK CORD ASSEMBLY TO READ: NSN 585501-149-4106. THE LENGTH OF THIS NECK CORD IS 42 INCHES. AN ADDITIONAL NECK CORD ASSEMBLY IS AVAILABLE, SEE PARAGRAPH 8(C)3 OF THIS MESSAGE.

8Q(8) TM 11-5855-263-10, DTD 15 MAY 94, PAGE 2-7, TABLE 2-2, STEP 1 PROCEDURES, CHANGE 90-DAY SERVICE TO 3-MONTH SERVICE.

8Q(9) TM 11-5855-263-10, DTD 15 MAY 94, PAGE 2-7, TABLE 2-2, STEP 1 PROCEDURES, CHANGE 180-DAY SERVICE TO 6-MONTH SERVICE.

8Q(10) TM 11-5855-263-23&P, DTD 15 MAY 95, PAGE 3-35, PARA 3-16, SETTING COLLIMATION FOR 25 MM EYEPIECE, ADD THE FOLLOWING ANTI-TAMPER LACQUERS IN THE INITIAL SETUP, UNDER

MATERIALS/PARTS: NSN 8030-00-408-1137 (GREEN), NSN 8030-01077-7674 (WHITE), NSN 8030-01-163-3483 (YELLOW).

8Q(11) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 2-4, PARA 2-7, TABLE 2-1, SEQUENCE 1-12, CHANGE INTERVAL FROM 90DAY TO 3MONTH.

8Q(12) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 2-4, PARA 2-7, TABLE 2-1, SEQUENCE 1, CHANGE 90-DAY PMCS TO 3MONTH PMCS.

8Q(13) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 24, PARA 2-7, TABLE 2-1, SEQUENCE 1, CHANGE 180DAY SERVICE TO 6MONTH SERVICE.

8Q(14) TM 11-5855-263-236P, DTD 15 MAY 95, PARA 36, CHANGE TO READ: THE ANVIS MUST RECEIVE A 6-MONTH SERVICE THAT SHALL BE PERFORMED BY AVIM. THIS 6-MONTH SERVICE CONSISTS OF A PMCS (LISTED IN PARA.2-7, TABLE 2-1), SYSTEM CURRENT DRAIN TEST, COLLIMATION CHECK AND PURGING.

BEFORE A NEW ANVIS IS PLACED INTO USE IT MUST RECEIVE THE 6-MONTH SERVICE. REFER TO PARAGRAPH 2-7 FOR THE PMCS CHECKS.

8Q(15) TM 11-5855-263-236P, DTD 15 MAY 95, PARA 39, CHANGE TO READ: EACH MONOCULAR OF THE ANVIS IS FILLED WITH DRY NITROGEN AND SEALED TO PREVENT DIRT AND MOISTURE FROM DEGRADING THE OPTICAL PERFORMANCE.

8Q(16) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 219, PARA 210, SUBPARA 8, ADD: NOTE - A MINIMUM OF TWO EXPERIENCED ANVIS PILOTS MUST SIGN THE DA FORM 240830, PART II - CORRECTING INFORMATION BLOCK TO RELEASE ANVIS AFTER SUCCESSFUL COMPLETION OF A DISTORTION EVALUATION.

8Q(17) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 221, PARA 210, SUBPARA 5, ADD NOTE - A MINIMUM OF TWO EXPERIENCED ANVIS PILOTS MUST SIGN THE DA FORM 240830, PART II CORRECTING INFORMATION BLOCK TO RELEASE ANVIS AFTER SUCCESSFUL COMPLETION OF A DISTORTION EVALUATION.

8Q(18) TM 11-5855-300-10, DTD 1 DEC 97, PAGE B-5, SECTION II, ILLUS NUMBER 3, CHANGE NATIONAL STOCK NUMBER TO 7025-01-3620980.

8Q(19) THE FOLLOWING MAINTENANCE SUPPLIES ARE AVAILABLE:

| COMPONENT | NSN |
|---|------------------|
| SILICON GREASE | 9150-00-145-0161 |
| COMPRESSED AIR REFILL (16 OZ) | 6830-01-335-5741 |
| WRENCH, HEX, 5/64 INCH (FOR ANVIS/NUD CLAMPS) | 5120-00-729-6392 |

8Q(20) THE ANVIS PURGE DEVICE (JA215008) HAS A BUILT-IN PRESSURE REGULATOR CALLED A 5 PSI POP-UP VALVE, P/N B-4CP2-5. IF PROBLEMS HAVE BEEN EXPERIENCED, UNITS SHOULD ENSURE THE POP-UP VALVE IS A P/N B-4CP2-5 AND NOT B-4CP2-1. THIS ITEM MAY BE PURCHASED FROM NUPRO PANY, 4800 EAST 345TH STREET, WILLOUGHBY, OH 44094. CALL NUPRO CUSTOMER SERVICE AT (440) 473-1050 FOR A LOCAL DISTRIBUTOR.

8Q(21) ANVIS COMPONENTS SUCH AS THE BATTERY PACK AND VISOR ASSEMBLY DO NOT REQUIRE PMCS UNTIL PLACED INTO SERVICE; HOWEVER, THOSE NOT IN SERVICE ARE REQUIRED TO BE TAGGED IAW DA PAM 738751.

8Q(22) THIS IS A CLARIFICATION REGARDING COMPLETION OF THE PERMANENT MAINTENANCE RECORD DA FORM 2408-15 FOR THE ANVIS. ALL MAINTENANCE REPAIR, SUCH AS INSTALLATION OF THE ENHANCED PAS, OR REPLACING 15 MM LENS ASSEMBLIES WITH 25 MM LENS ASSEMBLIES, WILL BE DOCUMENTED ON THE DA FORM 240815.

8Q(23) AVIM MAINTENANCE ORGANIZATIONS, UPON COMPLETION OF THE 6 MONTH SERVICE FOR AVIM-OWNED ANVIS SYSTEMS, MUST DOCUMENT THIS MAINTENANCE ACTION ON A DA FORM 2407.

8Q(24) THE USE OF ELECTRONIC FORMS OR DA APPROVED EQUIVALENT IS AUTHORIZED.

8Q(25) AVUM/AVIM MAINTENANCE AREAS MUST BE KEPT CLEAN, AND FLOORS MUST BE GREASE-FREE, IAW FM 1-500 AND FM 1508.

8Q(26) BEGINNING WITH THE NEXT AVIM LEVEL REPAIR/INSPECTION, THE CONTRACT NUMBER AND SERIAL NUMBER FOR EACH IMAGE INTENSIFICATION TUBE WILL BE RECORDED ON DA FORM 2408-15.

8Q(27) TM 11-5855-263-236P, DTD 15 MAY 95, PAGE 1-8, PARA 111, SUB-PARAGRAPH D, ADD: CAUTION - DO NOT USE BLACK SHELL IMAGE INTENSIFIERS WITH THE ONEPIECE MONOCULAR HOUSINGS (SEE FIGURE 335). THE BLACK SHELL IMAGE INTENSIFIERS DO NOT HAVE EMI SHIELDING; THE LACK OF WHICH COULD RESULT IN SYSTEM FAILURE.

8Q(28) UPDATE THE 3-MONTH PMCS DATE ON DA FORM 2408-30, BLOCK 6 TO REFLECT COMPLETION OF THE PMCS. ENTER THE NEW 3-MONTH PMCS DATE. THE NEW 3-MONTH PMCS DATE SHALL NOT EXCEED THE NEXT 6MONTH INSPECTION DATE. 9. CORRECTION PROCEDURES - N/A.

10. SUPPLY/PARTS AND DISPOSITION - N/A.

11. SPECIAL TOOLS, JIGS AND FIXTURES REQUIRED - N/A.

12. APPLICATION - N/A.

REFERENCES - N/A.

RECORDING AND REPORTING REQUIREMENTS - COMPLIANCE WITH THIS MESSAGE WILL BE ANNOTATED ON DA FORM 2408-15 FOR EACH ANVIS.

15. WEIGHT AND BALANCE - N/A.

16. POINTS OF CONTACT -

16A. FM NV/RSTA, TECHNICAL AND PROCUREMENT POC IS MR. GLEN NOWAK, SFAE-IEN-NV-L, DSN 654-3453 OR (703) 704-3453, FAX IS (703) 704-1111, EMAIL: "GNOWAK@NV.L.ARMY.MIL" OR MR. BRIAN GILLESPIE, SFAE-IEN-NV, DSN 654-1214 OR (703) 704-1214, FAX IS DSN 654-3449, EMAIL IS