

CAMP SMITH POLICIES AND PROCEDURES  
ANNEX 2E – HMMWV EGRESS ASSISTANCE TRAINER (HEAT) SOP  
JULY 2009

REFERENCES:

TC 55-HEAT (Training Program for the HMMWV Egress Assistance Trainer (HEAT))

US Army (CFLCC) Training Circular 21-305-4.1

GTA 55-03-030 (HMMWV Up-Armored Emergency Procedures Performance Measures)

OBJECTIVE:

To ensure the safe and effective operation of the Camp Smith High Mobility Multipurpose Wheeled Vehicle (HMMWV) Egress Assistance Trainer (HEAT). The initial goal of the HEAT is to instill the training necessary to first avoid a rollover. However, when a rollover does occur, training is required to learn how to survive the rollover and then successfully egress from an inverted vehicle by emphasizing teamwork and developing muscle memory through crew/battle drills.

A better perspective may be in clarifying what the HEAT is *not*. It is *not* designed to show how easy it is to become disoriented. HEAT training is one of the final steps in an overall Vehicle Safety Training Program. The scenarios inherent to training in the device, presume that an accident has occurred or is in the process of occurring and the HMMWV crew must now respond accordingly.

GENERAL:

The HEAT is designed as an integral component of the larger vehicle operator selection, training and testing process of the wheeled vehicle safety program. It is designed to provide military-specific training to operators and crew of the up-armored HMMWV. Use of the HEAT is strictly limited to military units.

The responsibility for the safe and effective use of the HMMWV Egress Assistance Trainer (HEAT) rests with unit Commanders. Commanders will designate OIC/NCOIC as appropriate for all training events utilizing the HEAT trainer. Unit OIC personnel will be responsible for ensuring that two certified HEAT system instructors/operators are on site at all times during training events. Unit Commanders will ensure that all OICs, NCOICs, and Instructor/Operators (I/Os) are familiar with TC 55 HEAT before conducting training. Unit Commanders will ensure that all I/Os and participants are familiar with the Drop on Request (DOR) and Training Time Out (TTO) Policy (see Appendix 1).

HEAT OPERATOR AND HEAT INSTRUCTOR REQUIREMENTS:

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Only instructor trainers qualified and licensed per TC 55-HEAT paragraph 3-16 may operate the simulator. HEAT operators must be trained and certified by competent personnel. As such, commanders must determine who is qualified to train the HEAT operator(s).

Commanders may assign other competent personnel (military, civilian technician, or contractors) as HEAT Instructor/Operators (I/Os). Ideally, someone who is already an instructor trainer or has experience as an instructor or safety officer/NCO may be designated by the commander as a HEAT Instructor/Operator.

Instructor/Operators (I/Os) must be selected not only for their technical qualifications but also for their demonstrated performance, objectivity, and ability to observe and provide constructive comments.

Qualification training for HEAT Instructor/Operators (I/Os) will be conducted using the following guidance:

1. Individuals conducting HEAT training must be qualified by an individual who completed the HEAT train-the-trainer course given by a Regional TADSS Facility. Camp Smith recognizes all documented training qualified by the Northeastern TADSS Facility for HEAT train-the-trainer and HEAT I/O (POC number 518-285-5829).
2. Initial qualification training will consist of, as a minimum, hands-on training of all tasks the operator is authorized to perform in accordance with the HEAT TC. Special emphasis will be placed on Academic and Performance Phase Learning Objectives and appropriate PMCS.
3. Annually, all HEAT Instructor/Operators (I/Os) must demonstrate a working knowledge and understanding of the appropriate subject areas in the HEAT training POI and the ability to administer the commander's HEAT training program.
4. The initial/annual evaluation will determine the HEAT operator's ability to train other personnel and perform essential tasks to the prescribed standards. HEAT Instructor/Operators (I/Os) may evaluate the HEAT operator(s) by observing the performance of the prescribed duties or by functioning as a crewmember undergoing HEAT training by the HEAT operator, in order to evaluate the effectiveness of the HEAT operator's instruction.
5. HEAT Instructor/Operators (I/Os) will be certified in accordance with TC 55-HEAT, paragraph 3-12. Qualified instructor/Operators (I/Os) will be issued a DD Form 1902 (Certificate of Qualification) and qualification annotated on their DA Form 348 (Equipment Operator's Qualification Record).

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| CERTIFICATE OF QUALIFICATION   |                                       |
|--|---------------------------------------|
| 1. NAME ( <i>Last, First, Middle Initial</i> )<br><b>O'Day, Tom C.</b>                     | 2. ORGANIZATION<br><b>HHC, A Co.</b>  |
| 3. TITLE<br><b>INSTRUCTOR/OPERATOR</b>   | 4. SPEC/STANDARD<br><b>HEAT I/O</b>   |
| 5. NAME OF CERTIFIER ( <i>Last, First, Middle Initial</i> )<br><b>Williams, Claude, J.</b> |                                       |
| 6. SIGNATURE<br><i>Claude J. Williams</i>  | 7. DATE (YYYYMMDD)<br><b>20070528</b> |
| 8. EXPIRATION DATE (YYYYMMDD)<br><b>20080528</b>   | 9. CARD NO.<br><b>001</b>             |
| 10. REMARKS<br><b>HEAT INSTRUCTOR/OPERATOR QUALIFIED</b>                                   |                                       |
| <b>DD FORM 1902, MAY 91</b>  |                                       |
| Previous edition may be used.  |                                       |

REQUIRED EQUIPMENT AND INSTRUCTIONAL AIDS:

GENERAL

1. Graphic training aid (GTA) 55-03-030, HMMWV Up-armored Emergency Procedures Performance Measures.
2. HEAT.
3. Whistle, air horn, or similar signal device.
4. Combat lifesaver (CLS) and lifesaver/first aid equipment.
5. Motion sickness supplies (medical/hazardous waste), such as:
  - a. Shop (wet/dry) vacuum
  - b. Hose and water source.
  - c. At least two one-gallon pails.
  - d. Latex (or equivalent) gloves.
  - e. Shop rags/towels.
  - f. Motion sickness bags.
  - g. A self-closing trash can and plastic trash bags.
6. Recommended knee-pads and elbow-pads (flailing and egress injury abatement).
7. Safety glasses or goggles (mandatory for eye injury abatement).
8. Fire extinguisher (Class A, B, C - at least 10 pounds).

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9. Hazardous material absorbent material to recover any oil and/or grease that may leak from the HEAT device and/or to clean up the effects of motion sickness.

10. Oxygen Bottle

## TRAINING UNIFORM AND EQUIPMENT

HEAT trainees will report wearing boots, Army combat uniform/desert combat uniform, protective eye wear (mandatory), hearing protection, helmet, body armor, personal and any crew-served weapon(s), protective masks (as required by the unit) LBE/V, and any other equipment that would typically be worn while riding in an up-armored HMMWV in a combat zone.

## TRAINING SCENARIOS

NOTE: Prior to all scenarios, students shall conduct a pre-rotation check of their gear by using the “buddy system”. Any loose or hanging items should be fixed or removed at this time.

### **SCENARIO 1 (Orientation)**

This scenario should be used to identify any potential for students to experience motion sickness or claustrophobia. This scenario should be done at the beginning of every group training session.

1. Rotate the trainer and stop at the 25° position. Identify this as the critical rollover angle of the up-armored HMMWV.
2. Assess students for any illness or problems.
  - a. Rotate the trainer and stop at 90°.
  - b. Assess students for any illness or problems.
  - c. Rotate the trainer and stop at 180°.
  - d. Assess students for any illness or problems.
  - e. Rotate the trainer and stop at 360°.
  - f. Scenario complete.

**SCENARIO 2 (HMMWV Rollover to 180° Basic)**

1. Rotate the trainer and stop at the 180° position.
2. \*Unlock only one of the doors.
3. Signal students to egress the vehicle.
4. Observe and assist students as required.
5. After egressing, have students set up security and conduct accountability checks.
6. Conduct After Action Review.

\*After the vehicle has come to a resting position, the lead instructor will only unlock one door. This is done to simulate jammed or damaged doors that cannot be opened.

**SAFETY:**

This section defines and delineates the safety considerations inherent to operation of the HEAT and highlights key safety considerations in operation of a HMMWV.

1. Safety Note. It is never advisable to exceed the limitations specified in the operator's manual for any vehicle.
2. Medical Pre-Screening. Guidelines have been developed for the medical prescreening of crewmembers scheduled for HEAT training. Commanders must prevent any Soldier or civilian under their charge from undergoing HEAT training if the commander feels any pre-existing medical conditions could be exacerbated by participating. Commanders will ensure that all participants complete the "HEAT Training Participant Screening Sheet/TTO & DOR Policies" (see Appendix 1)
3. Safety Hazard Awareness Notice. A potential for a mishap during HEAT training is acknowledged. In order to ensure the safety of staff and HEAT training participant(s), the following considerations will be addressed. Be alert for those who appear to be experiencing difficulty. In the event of motion discomfort, the individual – or the unit to which the individual belongs – will be responsible for cleaning the physical evidence (such as the release of *any* bodily fluid or compound) of such discomfort before training will continue.
4. Hazardous Conditions and Control Measures. HEAT trainees must be informed of any known hazardous conditions and control measures that exist in the training

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environment. Trainees must remove all watches and rings, any jewelry worn around the neck, and empty all pockets of pens, pencils, and pocket knives. Earrings should be removed to prevent inadvertent tearing of the earlobe during rollover and egress from the HEAT. Trainees should not bring pagers or cell phones into the trainer. Trainees must be briefed of their responsibility to report any unsafe/unhealthy condition they may discover.

5. The instructor will identify the location of emergency equipment, fire exits, and procedures to be used in the event of a fire, injury, or other emergency. In the event of an in-HEAT emergency, singled by three blasts on the whistle or sounding of applicable alarm, trainees should exit the HEAT immediately and proceed to the pre-designated location. A single long blast means trainees should remain inside the HEAT and not open the doors.

6. Environmental Exposure. Aircrew members should not participate in flight duties for at least eight hours after completion of HEAT training to ensure stability in the eolith organs of the vestibular system (FM 3-04.301, Aeromedical Training for Flight Personnel, Chapter 9).

7. First Aid Treatment. First Aid treatment includes oxygen administration; treatment for shock; cardiopulmonary resuscitation, when needed; and transport to the nearest medical treatment facility.

8. Pre-Training Requirements. Prior to engaging in HEAT training, personnel shall be proficient with the wear and operation of standard uniform and combat equipment worn in the theater and be familiar with survival, signaling, and rescue techniques appropriate to survival situations typical of disabled vehicles in the area of responsibility.

9. Emergency Medical Personnel. There will be a minimum of one CLS on site during any operation of the HEAT. Ideally, CLS services will be provided by the unit undergoing the training. Emergency medical personnel with appropriate equipment and a suitable vehicle for transport will be readily available during all HEAT training. The absence of any criteria in this paragraph requires a reassessment of the risk and the approval of the appropriate authority. OICs will be prepared to evacuate injured or sick personnel with life threatening injuries in accordance with the Camp Smith emergency medical evacuation SOP.

10. Safety Reminder. All personnel will be reminded that equipment damage, personal injury, and even death can result from carelessness, failure to comply with the approved procedure, or violations of warnings, cautions, and safety regulations.

11. HEAT Location Safeguards. The HEAT device will be isolated from passers-by and accidental striking by the device when it is in motion.

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12. Personnel Physical Requirements. Prior to their selection for HEAT training, prospective trainee records must be reviewed for any profiles or medical conditions that may preclude their participation. Trainers will ensure each HEAT training participant is free of symptoms of motion sickness and any injuries resulting from the training. All HEAT training participants will be required to remain in the immediate training area for at least ten minutes following training to be observed for presentation of acute motion sickness symptoms.

13. Licensing and Qualification Documentation. Commanders will ensure adequate records of initial training and annual revalidation are maintained for each trainee on the DA Form 348 (Equipment Operator's Qualification Record (Except Aircraft)) or service equivalent.

a. The HEAT will only be run by instructor trainers certified in accordance with TC 55-HEAT. Selection of operators will be based on Appendix E AR 600-55, The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing) and/or other applicable prescribing service directives.

b. A statement of qualification to operate the HEAT will be made on the DD Form 1902 (Certificate of Qualification) to show "HEAT Instructor/Operator Qualified."

SCHEDULING:

Units/organizations will submit request for use of the HEAT facility (building 516) in the same manner as requesting ranges or any other facilities to Camp Smith RFMSS Operator (see Chapter 3 of this publication).

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 APPENDIX 1 to ANNEX 2E – HEAT Training Participant Screening Sheet/TTO & DOR  
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**HEAT TRAINING PARTICIPANT SCREENING SHEET**

|                       |     |                       |
|-----------------------|-----|-----------------------|
| NAME (LAST, FIRST MI) | SSN | RANK                  |
| UNIT                  | AGE | DATE OF LAST PHYSICAL |

TRAINING: INITIAL / REFRESHER                      MEDICAL STATUS (Profiles): \_\_\_\_\_

- |  |     |
|--|-----|
| 1. Have you been physically ill in the last two weeks?   | Y N |
| 2. Have you taken any medications in the last 24 hours?  | Y N |
| 3. Are you presently under any medical treatment or (aircrews) have you been medically grounded in the last 30 days?                               | Y N |
| 4. Have you had any shots or immunizations in the past 12 hours?   | Y N |
| 5. Have you had any dental work in the past seven days?  | Y N |
| 6. Have you donated blood in the last seven days?  | Y N |
| 7. Have you had less than your normal amount of sleep in the last two nights?  | Y N |
| 8. Have you had any alcohol in the last 12 hours?  | Y N |
| 9. Have you changed your eating habits in the last 24 hours?   | Y N |
| 10. Do you have any physical condition which might be aggravated by this training?   | Y N |
| 11. Have you had any back or joint trouble in the last 30 days?  | Y N |
| 12. Have you had any head, neck, back, or any major previous bone fracture?  | Y N |
| a. If so, have you been released for such activity by a Competent Medical Authority?   | Y N |
| 13. For women: Are you pregnant?   | Y N |
| 14. Do you have any physical condition not noted above?  | Y N |
| 15. Have you ever had a traumatic experience in vehicles and/or do you have any fear associated with being in a tactical vehicle, such as a HMMWV? | Y N |
| 16. Is there any reason why you should not participate in training today?  | Y N |
| 17. Have you previously requested to drop from any HEAT/egress training?   | Y N |

**Note:** If you marked yes to any one of these questions, please provide explanation in the REMARKS section on back identifying by number the question to which reference is made.

**If my medical status should change during this course of training, I will immediately report my status to the Lead HEAT Instructor.**

|                       |      |
|-----------------------|------|
| Participant Signature | Date |
|-----------------------|------|

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APPENDIX 1 to ANNEX 2E – HEAT Training Participant Screening Sheet/TTO & DOR  
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**DROP ON REQUEST (DOR) AND TRAINING TIME OUT (TTO) POLICY**

This course is designated as a low-to-moderate training EVENT, and is voluntary. With proper controls, the risk is mitigated down to at least Moderate level. Accordingly, HEAT Training participants have the option to individually request termination of training. Any time the crewmember makes a statement such as “*I quit*”, “**DOR**” or words of that effect the crewmember **shall** be immediately removed from training environment.

A TTO may be called in any training situation whenever a HEAT Training participant or instructor expresses concern or personal safety or a need for clarification of procedures or requirements exists. TTO is also an appropriate means for a crewmember to obtain the relief if they are experiencing pain, heat stress or other physical discomfort.

Calling “*time out*”, “*training time out*”, crossing the hands in a “T”, raising a clenched fist overhead, or any action that removes the HEAT Training participant from the training area such as an unscheduled or instructed egress from the device will be considered a “training time out”. The crewmember may be returned to the training event following a TTO when ready to return and upon approval of the Lead HEAT Instructor.

STATEMENT OF UNDERSTANDING

I, (*Print Name*) \_\_\_\_\_, **having been thoroughly briefed on the DOR and TTO policies, do fully understand these policies and their implication.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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REMARKS:

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PRIVACY ACT STATEMENT

Under the authority of title 10 U.S.C., 1071-87 and 5031; 5 U.S.C. 301; Executive Order 9397, and the manual of the medical department, Article 4-5, information is required to screen you for training. The personal information will be used to determine the presence of any condition, which would contraindicate participation in egress training. The Social Security Number (SSN) is used only for report filing. Disclosure of requested information is voluntary to prevent illness or injury. Failure to provide the requested information may preclude participation in egress training and may warrant further medical evaluation.

This form shall be filed and maintained by the cognizant Master Driver Trainer IAW AR 25-400-2 (The Army Records Information Management System [ARIMS]), AFPD 37-1 (Information Management), AFMAN 37-123 (Management of Records), or OPNAVINST 5000.48.

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### **TRAINING TIME OUT (TTO)/DROP ON REQUEST (DOR) POLICY**

1. All HEAT Training participants shall be briefed on the “DOR” and “TTO” policy prior to the commencement of training.
2. TTO – Crewmembers or instructors who have apprehension concerning their personal safety or that of another shall request a “TTO” to clarify the situation and receive or provide additional instruction as appropriate. Students who refuse to participate in the training exercise after training time-out instruction has occurred will be removed from training. The Safety Officer (or OIC) will forward the matter to the individuals command to determine the possibilities of retraining the crewmember at a future date.
3. DOR – HEAT Training participants are enrolled on a voluntary basis; therefore, crewmembers may voluntarily request termination of training. Any time a crewmember makes a statement such as “*I quit*” or “*DOR*” they will be immediately removed from the training environment (HEAT, classroom etc.). The Safety Officer will inform individual's command of their decision to DOR. When the crewmember exercises the option to DOR as stated above, the individual's supervisor shall:
  - a. Counsel the HEAT Training participant on the importance of the training and ascertain the reasons behind the request.
  - b. Have the crewmember make a written request to terminate or continue training, which shall become a permanent part of their training folder.
  - c. Following a HEAT Training participant's DOR, the Safety Officer (or OIC) is the only authority that may return the crewmember to training.
  - d. Students who are returned to the training environment will be assisted in the program by the instructors until the crewmember's confidence level is restored or it is determine the crewmember's participation in the program is no longer warranted.
4. Student Safety – Any time a HEAT Training participant demonstrates signs of panic, fear extreme fatigue, or lack of confidence, instructors shall stop the training, identify the problem, and make a determination whether or not to continue. Instructors shall be constantly alert for any unusual behavior which may indicate a crewmember is experiencing difficulty and shall immediately take appropriate action to ensure the crewmembers' safety

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 APPENDIX 2 to ANNEX 2E – HEAT PMCS Checklist  
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**PMCS CHECKLIST**

**Daily, Before each use**

| Check or Service  | √<br>Complete |
|---|---------------|
| <b>Check electric rotator motor and rotation mechanism</b> – hold-down bolts are tight.   |               |
| Check (two each) set screws that hold the woodruff key on the motor are tight; check slippage marks.  |               |
| Check motor base freeplay.  |               |
| Check motor shaft wear.   |               |
| Check drive sprocket for abnormal wear.   |               |
| <b>Check rotator gearbox and pivot points</b> – condition and security.   |               |
| Check mechanism base freeplay   |               |
| Check no rotational freeplay in the rotator shaft.  |               |
| Check front rotisserie plate bolts tight, and no freeplay.  |               |
| Check rotation lock (pin) functions properly and is secure.   |               |
| Check rear rotisseries plate bolts tight and no freeplay.   |               |
| Check for any lengthening of bolt heads or elongation of holes, sheared bolt heads or missing bolts, cracking welds, stretching metal or other signs of metal fatigue.                              |               |
| <b>Troop platform</b> – check ladders and ladder brackets for broken brackets, cracking welds.  |               |
| Check troop platform cage for separations, sharp edges or areas where fingers could become trapped or twisted.  |               |
| Availability of motion discomfort bucket(s).  |               |
| Check support brackets and bracket mounts for cracks, and secure fitting.   |               |
| <b>Troop platform lifting winch</b> – ensure winch is operating properly.   |               |
| Check connection points to troop platforms.   |               |
| Check winch hold-down bolts for wear or looseness.  |               |
| <b>HEAT base</b> – check for any lengthening of bolt holes and heads, sheared bolt heads or missing bolts, cracking welds, stretching metal or other signs of metal fatigue.                        |               |
| <b>HEAT cab (exterior)</b> – check door handles function properly.  |               |
| <b>HEAT cab (interior)</b> – check seatbelts present, operational, and free of fraying.   |               |
| Seat pads serviceable and properly installed.   |               |
| Steering wheel has no side-to-side freeplay.  |               |
| Gunner lanyard*/harness – check for installation, security, cleanliness, no fraying, and surety of latch, clasp or carabiner.   |               |
| Interior clean and free of loose objects and dirt or dust that could cause eye injury.  |               |
| Door lock mechanisms fully functional and lock properly.  |               |
| Combat door locks lock and unlock freely.   |               |
| Padding for interior mock-up of communications devices not torn.  |               |
| Interior mock-ups are securely mounted and have no freeplay.  |               |
| Mock (Styrofoam) coolers, ammo cans, etc., for proper placement and condition.  |               |
| Interior cab padding (walls and ceiling) is securely fastened and not torn.   |               |
| Windows are in the up position and locked.  |               |
| Check for any sharp edges on all surfaces within the cab.   |               |
| Availability of motion discomfort bags.   |               |
| <b>General</b> – check availability of POI.   |               |
| Check placement of safety zone (30" and 36") markings on floor around device.   |               |
| Verify placement of padding at least 6" thick, or a safety/suspension web beneath the device.<br>Padding/webbing must be installed so as to effectively arrest any fall from the cab of the device. |               |
| Check availability of serviceable fire extinguisher, and hangar/building is generally safe for device use.  |               |
| Verify the device has been properly grounded IAW TC 11-6.   |               |
| Check generator fuel, oil, and coolant fluid levels; and general serviceability of the generator.   |               |
| Complete the blank spaces in the HEAT Pre-Mishap plan (appendix C) and ensure it is posted in a conspicuous location for immediate reference.   |               |

\*1,000 lb.-test lanyard (preferred).

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**Daily, During each use**

| Check or Service   | √<br>Complete |
|--|---------------|
| Check the rotator electric motor for any signs of motor overheating.                 |               |
| HEAT cab (interior) – check door lock mechanisms fully functional and lock properly. |               |
| Combat door locks lock and unlock freely.  |               |
| Any signs of motion discomfort or other fluid excretion.                             |               |

**Daily, After each use**

| Check or Service   | √<br>Complete |
|--|---------------|
| Check electric rotator motor and rotation mechanism – check drive sprocket for abnormal wear.                    |               |
| Check motor base freeplay.   |               |
| Check (two each) set screws on that hold the woodruff key on the motor are tight; check slippage marks.          |               |
| Check the rotator gear box lubricant level (remove access plate).  |               |
| Empty motion discomfort bags, bucket(s) as necessary. Clean and wipe down interior after evidence of discomfort. |               |

**Weekly**

| Check or Service  | √<br>Complete |
|---|---------------|
| Change rotator mechanism gearbox fluid (80W-90).  |               |
| Lubricate –   |               |
| Front rotator mechanism (80W-90).   |               |
| Rear rotisserie (axle grease – inject grease until excretion is evident).   |               |
| Troop platform pivot points (light lubricant spray).  |               |
| The rear rotisserie zerk fitting.   |               |
| Traming platform pivot points (light lubricant spray).  |               |
| HEAT base traming platform pivot points (light lubricant spray).  |               |
| Combat lock mechanisms.   |               |
| Check the rotator gearbox and pivot points (remove access plate).   |               |
| Check electrical connections, cables, etc., from electrical source (battery or wall plug) to electric rotator motor – condition and security. |               |
| Check battery for service level, terminals for evidence of corrosion.   |               |
| Vacuum and wipe down interior (HEAT cab).   |               |
| Clean glass windows.  |               |

**Monthly**

| Check or Service   | √<br>Complete |
|--|---------------|
| Lubricate –  |               |
| All door hinges (light lubricant spray).                               |               |
| Door locks (light lubricant spray).                                    |               |
| Combat locks (light lubricant spray).                                  |               |
| Seatbelt mechanisms (graphite or other light lubricant spray).         |               |
| Service generator IAW applicable TM, Technical Order, Lube Order, etc. |               |

**Quarterly**

| Check or Service   | √<br>Complete |
|--|---------------|
| Wire brush worn and rusted spots – apply touch-up paint as necessary.  |               |
| Service generator IAW applicable TM, Technical Order, Lube Order, etc. |               |