



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON,  
FORT LEONARD WOOD  
320 MANSCEN LOOP STE 120  
FORT LEONARD WOOD, MISSOURI 65473-8929

IMWE-LNW-PL

19 March 2012

**MEMORANDUM FOR SEE DISTRIBUTION**

**SUBJECT: Policy for Use of Training Aids, Devices, Simulators and Simulations (TADSS) on Fort Leonard Wood, MO**

**1. References:**

- a. AR 5-9, Area Support Responsibilities
- b. AR 350-38, Training Device Policies and Management
- c. AR 710-2, Supply Policy Below the National Level
- d. AR 710-32, Force Development and Documentation-Consolidation Procedures
- e. AR 735-5, Policies and Procedures for Property Accountability
- f. DA PAM 350-9, Index and Description of Army Training Devices
- g. DA PAM 710-2-1, Using Unit Supply System (Manual Procedures)
- h. CTA 50-909, Field and Garrison Furnishings and Equipment
- i. CTA 50-970, Expendable and Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items)
- j. TRADOC PAM 350-9, TRADOC Training Devices for Army-wide Use

**2. Purpose:** To establish common policy for request, issue, training, maintenance and fabrication of TADSS on Fort Leonard Wood, MO.

**3. Policy/Procedures:** The Training Support Center (TSC) division of the Directorate of Plans, Training, Mobilization and Security (DPTMS), Fort Leonard Wood, MO consists of four components; Administrative, Supply, Training and Fabrication. Effective immediately the policies and procedures established herein govern requests from supported units and agencies for TSC support.

IMWE-LNW-PL

SUBJECT: Policy for use of Training Aids, Devices, Simulators and Simulations (TADSS) on Fort Leonard Wood, MO

a. General (to include Administrative and Scheduling requirements). Several functions such as budgeting, central scheduling and process management for TADSS are managed in this section. Specific policies and procedures are documented in Enclosure 1.

b. Supply. The Supply Section includes accounting for, issue, receipt, storage, tracking and documentation of all TADSS on the installation. Specific policies and procedures are documented in Enclosure 2.

c. Training. The Training Section includes such TADSS as the Call for Fire Trainer (CFFT), Engagement Skills Trainer (EST), Multiple Integrated Laser Engagement System (MILES), Humvee Egress Assistance Trainer (HEAT), and assorted other simulators and TADSS devices that require training. Specific policies and procedures are documented in Enclosure 3.

d. Fabrication (to include TADSS maintenance). The Fabrication Section identifies repair requirements for damaged TADSS devices, repairs TADSS within capabilities and coordinates repair of TADSS outside of capability or covered under other maintenance policies and fabricates installation-unique TADSS devices IAW customer requirements and specifications. Specific policies and procedures are documented in Enclosure 4.

e. Separate Policies. Policies for Unit Requirements for Use of the Engagement Skills Trainer (EST) 2000 on Fort Leonard Wood and for Use of the Close Combat Mission Capability Kit (CCMCK) are documented in Enclosures 5 and 6.

4. Supersession: This policy supersedes External Policies dated 1 May 2010.

5. Proponent: DPTMS TSC.

6 Encls

  
JOSEPH A. RAPONE II  
Director, DPTMS

**DISTRIBUTION:**

All Schools, Brigades, Battalions,  
Companies, Detachments, Tenant Units,  
Directorates and Personal Staff Offices

## Enclosure 1. General requirements

### General

1. All items identified as TADSS in DA and/or TRADOC Pams 350-9 or procured as a TADSS IAW AR 70-1 and/or AR 350-38, will be accounted for by DPTM TSC on Fort Leonard Wood.
2. The Area of Responsibility (AOR) for the Fort Leonard Wood TSC is defined in Table C2 found on page 12 of AR 5-9, Area Support Responsibilities dated 16 October 1998.
3. All TADSS will be counted and inventoried at time of issue and turn-in. If you sign for it, you are accountable.
4. TADSS will only be issued and/or signed out to those identified by their commands as eligible to do so on a DA Form 1687 signature card.
5. TADSS are on a first-come/first-serve basis and require no reservation with the exception of those identified here-in as requiring advanced scheduling, training or detail support. (Exception – TADSS may be withheld from issue if directed by higher, safety issues are identified, or a policy is required prior to issue.)
6. TADSS requiring advanced scheduling are identified in Enclosure 2. These items may change without notice as new devices arrive or policies change.
7. TADSS requiring training prior to issue are identified in Enclosure 3. These items may change without notice as new devices arrive or policies change.
8. Priorities are determined in accordance with the Commanding General's Annual Training Guidance.
9. Requests more than 45 days in advance will not be considered unless specifically excepted by this policy.
10. TADSS equipment is classified as installation property; therefore equipment on loan will not be taken off the Fort Leonard Wood installation or out of the TADSS area of responsibility (AOR) without written approval from the Training Support Officer (TSO) or his designated representative.
11. If equipment is needed outside the AOR, the unit will send a written request to the Fort Leonard Wood TSO who will coordinate with the appropriate TSC where the training is to take place. If arrangements cannot be made, the TSO may authorize a unit to take Fort Leonard Wood equipment outside the AOR.

## Enclosure 1. General requirements (cont)

12. If equipment is needed off the Fort Leonard Wood installation, but within the AOR, the unit will take a copy of the hand receipt to the Provost Marshal's office and have the hand receipt annotated to ensure no issues occur when reentering the installation with inert IED or weapons.

13. Tours. Tours may be scheduled with five working days advance notice. Tour requests may be submitted by e-mail to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil).

### 14. Scheduling of Simulators.

a. Simulators under the operational control of DPTM TSC (i.e. EST 2000, Call For Fire Trainer, VBS2, RVTT, Dismounted Soldier) will be scheduled through RFMSS. Units will e-mail requests to the appropriate POC, as outlined in RFMSS. Upon approval the unit will paste the e-mail granting approval in RFMSS and forward for approval to the RFMSS scheduler.

b. Simulators outside the operational control of DPTM TSC (i.e. AVCATT, HYEX, Common Driver Trainers – Stryker, wheeled vehicle, Buffalo, etc...) . Units may contact the TSC at 573-596-0234 for a list of all Simulators on Fort Leonard Wood. Requests for simulators outside the operational control of TADSS will be returned with the scheduling POC's information for the unit to contact and continue coordination.

### 15. Budgeting.

a. Budget requirements for the next fiscal year are normally submitted through budget channels during February-March time frame. Units must submit TADSS requirements for the following fiscal year to TADSS NLT 31 January for consideration for next-year and out-year funding.

b. In the event of an immediate unfunded request by a unit, the request will be forwarded, along with a copy of the current year's spend plan, to the DPTM Director and G3 to determine priority of funding.

### 16. Process management (does not include School/CDID proponent procurement).

a. TSO is the process owner for all TADSS purchased on Fort Leonard Wood. Any unit wishing to procure a TADSS must forward a request by e-mail, in memorandum format, to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil). Requests must contain requestor's name, unit designation by company, battalion, brigade, type and amount of equipment, and justification for purchase.

**Enclosure 1. General requirements (cont)**

**b. TADSS Procurement rules.**

1) IAW Memorandum, Subject : Policy for the Acquisition of Training Aids, Devices, Simulators and Simulations (TADSS) and Gaming for Training, dated 30 June 2008 (VCSA) paragraph 4c "Commanders will not procure TADSS solutions or gaming technologies for training without prior coordination with TRADOC, ...).

2) No new TADSS solution will be procured by the Fort Leonard Wood TADSS without express permission from TRADOC.

3) Requests for an increase in the number of on-hand/approved TADSS must be submitted NLT 1 February each year to be added to the following year's budget request and forwarded to IMCOM, TRADOC and HQDA.

4) All TADSS procured by units, no matter the funding, must be shipped to TADSS for addition to the Training Support Materiel Army-wide Tracking System (TS-MATS). The TADSS items will then be issued from TADSS to the unit.

17. Reserve Component and National Guard. All RC/NG requiring TADSS support outside of regular duty hours (0700-1600 M-F) must coordinate 14 working days in advance through the DPTMS Reserve Component Operations office at 573-563-4053/4073 /5127/5968.

18. Customer Service. The DPTM TADSS is dedicated to Customer Service. ICE boxes are located in the lobby of the TSC as well as on the back counter of the warehouse, in the lobby of the EST 2000 and at Kanell Hall, B768 (EST/CFFT). Your input outlining excellent service and areas of deficiency are appreciated.

## Enclosure 2. Supply

### 1. Scheduled TADSS.

a. Certain TADSS require advanced scheduling, certification and or detail support. All TADSS listed in this section require a request be submitted a minimum of 14 working days in advance and a detail of 12 personnel. Those items with special requirements for training as outlined in Enclosure 3 will only be issued to individuals with documentation certifying training. However, in the event a certified cadre member is unable to be present during issue of a special requirements TADSS, representatives directed to pick up items for their Command on DA Form 1687 may bring a copy of the trainer's certification card. Those TADSS are:

- 1) Demolition Effects Simulator (DES).
- 2) Pneumatic machine guns.
- 3) Mock M16/M4s (>80).
- 4) IEDES.
- 5) THOR III.
- 6) AN/PSS 14.
- 7) LMTS/LCCATS.
- 8) CCMCK.
- 9) CREWII
- 10) PUGIL Gear
- 11) MILES.

a) Wet and mildewed equipment will not be accepted for turn-in. This also includes any residue from (CS) tear gas. These guidelines also apply to any parts of the transit cases that are used to transport the equipment, and all supporting equipment known to be associated with MILES.

b) Vehicle MILES kits (MITS/WITS) must be included on Units original MILES request and must be requested 30 days out to ensure availability and time to train cadre on installation of the system. TADSS trainers will then coordinate with the requesting unit for a vehicle kit installation class. Class is usually conducted on the day of the MILES equipment pick-up.

## Enclosure 2. Supply (cont)

b. All requests to reserve TADSS devices must be sent by e-mail, in memorandum format, to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil).

c. E-mails for reservation of TADSS devices must contain the contact information for the requestor, unit designation (to include company, battalion and brigade), type and amount of equipment and/or training required and preferred dates and times for the pick-up/ turn-in for equipment and/or training.

d. Date of issue and turn-in will be provided by the scheduler and date of turn-in will be annotated on the issue document.

e. No scheduled TSC item will be made available to any requestor who does not meet the 14 working day requirement unless a letter of lateness is submitted with endorsement by the Battalion, Brigade and G3.

f. If a unit submits a letter of lateness, they will be accommodated only if the item(s) requested are available and enough time remains to allow for issue without requiring over-time for employees.

g. Units that fail to show up within 15 minutes of the scheduled appointment and/or fail to provide the appropriate detail and supervision will be refused service and be required to reschedule, to include a letter of lateness if applicable.

### 2. Standard issue/receipt.

a. TADSS are generally issued as temporary loans for 30 calendar days or less on a DA Form 3161 or a TS-MATS generated hand receipt, with a turn-in date scheduled at the time of issue. It is extremely important that these items be returned on time since the same equipment is frequently scheduled to meet other unit requirements shortly after the scheduled turn-in date.

b. It is understood that units will, from time to time, need to reschedule pick-up and/or turn-in of items.

c. All requests to reschedule should be called in as soon as possible so the unit will not be listed as a NO SHOW and the unit account frozen. A NO SHOW occurs when a unit is more than 15 minutes late and has not called to reschedule.

d. When a unit is a NO SHOW, they will be required to reschedule for another date/time, to include submission of a letter of lateness if applicable.

Enclosure 2. Supply (cont)

3. Non-standard issue/receipt.

a. TADSS issued in a non-standard format (i.e. for 1 year or more) will be issued on a hand receipt generated by PBUSE or TS-MATS depending on the Account Requirement Code (ARC) of the item.

b. TADSS issued for long term will only be issued to the appropriate Commander, Course Chief or equivalent.

c. All requests for long term issue of TADSS must be sent by e-mail, in memorandum format, to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil).

d. E-mail's must contain the contact information for the requestor, unit designation (to include company, battalion and brigade), device(s) required, number of devices required and a justification for long term issue.

e. Requests for long term issue will be granted only if existing stocks can support the issue without negatively effecting other units training requirements.

f. Pugil gear is signed out to Brigade or Battalion level only. Companies must request Pugil gear through their chain of command. Exceptions to policy must be approved by the TSC Property Book Officer in writing.

4. TADSS return policy.

a. All TADSS must be turned in by the date annotated on the hand receipt with operator's maintenance performed and must be free from all dust, dirt, debris and moisture.

b. Units are authorized to enhance certain TADSS (i.e., UXO, IEDs, etc), with duct tape, wires, etc, to meet their training needs; however, all items will be returned to their original state prior to return.

c. Failure to return TADSS by the due date will result in the unit account being frozen.

d. Frozen Accounts. A Frozen Account is defined as an account whose TADSS privileges are suspended.

Enclosure 2. Supply (cont)

1) Units that fail to return items, update hand receipts, or initiate paperwork for lost or damaged TADSS will, at of the end of the date due, have their account frozen until accountability or loss/damage documentation is completed.

## Enclosure 2. Supply (cont)

2) Unit's are allowed five (5) working days to correct the problem. After the fifth day, all units within the next higher chain of command will have their accounts frozen as well (i.e. Company fails to return an item, then on R+6 the Battalion is frozen as well).

3) At R+10 the suspension of privileges will then be extended to the next higher command, if appropriate.

4) In each case where privileges are suspended, the TSC will call the person who signed for the equipment NLT R+1. At R+3, the senior NCO of the first level of command is notified to ensure they have a chance to respond.

5) If the first level of command fails to respond by R+4, the next higher (second level) command will be notified to ensure a chance to respond before additional units accounts are frozen.

6) In the event the issue must go to the third level of command, the CSM will be notified NLT R+8.

7) All days are based on working days, weekends and holidays are not included.

8) NCOs are responsible for informing their Commanders. Commanders will be notified directly if the issue relates to a permanent hand receipt they signed.

9) Requests for exception must be presented, in writing, to the TSO.

### 5. Requirements to receive TADSS.

a. Customer hand receipt accounts will be maintained at TADSS.

b. Accounts (signature cards, assumption of command orders, and hand receipts) must be current in order to receive TADSS support.

c. The Instructor Training Course (ITC) is required to drop off a current list of enrolled students who are authorized to receive and turn-in TADSS each cycle. The expiration date will be the day of their graduation.

d. Property is only issued to individuals that have been authorized on DA Form 1687 to receipt for TADSS.

e. Individuals signing for property from TADSS are strongly encouraged to sub-hand receipt property to other users if they are not involved in the actual training.

## Enclosure 2. Supply (cont)

6. Consumable supplies. Consumables are managed by the supply section and are normally automatically reordered as needed. Units anticipating a large usage, such as for a demonstration or special emphasis (i.e. Best Sapper Competition) must provide notification 60 days in advance to ensure enough consumables are on hand to meet requirements.

### 7. Graphic Training Aids (GTA).

a. GTAs are managed by the supply section and are normally automatically reordered as needed. Units anticipating a large usage must provide notification 60 days in advance to ensure enough are on hand to meet requirements.

b. To see Army-wide available GTAs follow the steps below:

- 1) Go to <https://atiam.train.army.mil/>
- 2) CAC login or log in with AKO password
- 3) Click RDL services TAB
- 4) Select "Commandant Approved Training"
- 5) Under Type, select Graphic Training Aids
- 6) Click "submit"

7) Review GTAs then provide the number of the GTA you are looking for to the nearest TSC/TADSS along with how many you need and when you need them.

8) TADSS may be able to ship directly to you or may have them on-hand for instant pick up.

c. Local GTA production.

1) Units requiring creation of a Local GTA must forward a request by e-mail, in memorandum format, to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil).

2) Requests must contain requestor's name, unit designation by company, battalion, brigade, type, justification for local production and estimate of amount needed and frequency of need and must include specific detail of what the GTA must include (color, size, outline of information, etc...).

Enclosure 2. Supply (cont)

3) Drawings are helpful.

4) The TSC will respond with an initial design for unit review and assign a Fort Leonard Wood number once design is complete.

8. Loss/Damage.

a. Damage to TADSS that is considered abuse or neglect will be corrected with a Financial Liability Investigation of Property Loss (FLIPL) or Statement of Charges.

b. Relief from responsibility for accountable property will be IAW AR 735-5.

c. The unit or activity that sub-hand receipted for the property at the time of the loss or damage is responsible for initiating the statement of charges or FLIPL.

d. The TSC Property Book Officer must assign the document number on the FLIPL or Statement of Charges.

9. Review of hand receipts. The DPTM TSC Property Book Officer will contact units annually to review hand receipts.

a. The Commanders are required to review and update hand receipts and signature cards at the time of changes of command. Accounts will be frozen during Change of Command Inventories.

b. A Commander may request a review of their hand receipt through the TSC supply section at 573-596-0234.

c. Commanders may request read-only access to the accounts in TS-MATS by providing the list of persons to have review capability, specifically the AKO e-mail addresses of those personnel, to the TADSS supply section.

10. TADSS inventory.

a. Army-wide device inventories are found in AR and TRADOC Pam 350-9 and TS-MATS.

b. A copy of the local inventory may be requested at any time via e-mail to [leon.dptmtadss@conus.army.mil](mailto:leon.dptmtadss@conus.army.mil).

## Enclosure 3. Training

### 1. Requests for training.

a. All requests for training on TADSS devices must be sent to the TSC Senior Trainer. The Senior Trainer may be reached at 573-596-4604/4687.

b. Requests must include the contact information for the requestor, unit designation (to include company, battalion and brigade), type of training required, estimated number of students and preferred dates and times for the training.

c. Requests for training on weekdays prior to 0700, after 1700 or anytime on weekends will be accommodated, if possible, with existing funds. However, in the event that an employee must be scheduled over 8 hours per day or 40 hours per week the unit may, upon direction by the G8 or Directorate of Resource Management (DRM), be required to pay for the additional hours.

d. Weekend requests require a minimum of 4 hours for the employee, regardless of the unit's training requirement.

2. Units that are more than one hour late to attend scheduled training without notifying the TSC in advance will be considered a "No Show." The system(s) scheduled for the "No Show" unit will be shut down and the operator reallocated elsewhere for training and maintenance support.

a. Units that have two or more "No Shows" for scheduled training in the same quarter will be notified that their accounts are frozen.

b. Future requests for units with two or more "No Shows" will require the personal approval of the TSO.

c. Unit's with two or more "No Shows" in a quarter must submit requests by e-mail, in memorandum format, to [leon.dpmtadss@conus.army.mil](mailto:leon.dpmtadss@conus.army.mil) with a justification for the training/items requested and the POC information for the person that will be responsible for the training on, or pick-up of, the TADSS devices.

d. The request must be signed by the Company Commander or someone on orders to act in his/her stead.

e. If a unit "No Shows" after a Company Commander signed request is granted, the next request will require Battalion level signature. If another "No Show" occurs after a Battalion Commander signs a request, a Brigade level signature will be required.

f. If a unit maintains a full quarter (3 months) without earning a "No Show" status, they will be removed from the restrictions in this paragraph

Enclosure 3. Training (cont)

3. The complexity of use and/or safety requirements of certain TADSS require that training for cadre be accomplished prior to anyone being allowed to sign for or using these systems. TADSS requiring certification include but are not limited to:

- a. MILES (Force on Force training system). Units, at any level, may schedule training for cadre certification on MILES. Training must be scheduled at least two (2) weeks prior. Unit may request training on the legacy or the new I-MILES systems.
- b. PITS (Portable Infantry Target System for use with MILES) scheduled at least two(2) weeks prior.
- c. Pneumatic weapon simulators
- d. IEDES (IED Simulator – Non-pyrotechnic and pyrotechnic capable – old and new versions available but require separate training)
- e. AN/PSS 14 (Mine Sweeper Trainer, requires UMT certification not provided by TADSS)
- f. LMTS/LCCATS (Portable Marksmanship Simulator)
- g. THOR III/CREWII (DUKE System trainers)
- h. EST 2000 (Stationary Marksmanship Simulator) .

1) Cadre certification (for the purpose of receipting designated EST's to units for after-hours and weekend reinforcement training only) are conducted monthly as a part of the Post CSM's DS/AIT PSG in-processing week. Units needing certification outside of this window must contact the TSC Senior Trainer directly at (573) 596-4604.

2) Routine use is scheduled IAW Enclosure 1, 14a of this policy. Units are required to provide trainers for EST 2000 while the TSC provides the system operators IAW Policy for Unit Requirements for Use of the Engagement Skills Trainer (EST) 2000 on Fort Leonard Wood, dated 22 June 2009, found in Enclosure 5 of this policy.

- i. VBS2/RVTT/Dismounted Soldier (FORSCOM Collective Trainers)
- j. HEAT (Vehicle Rollover Simulator)
- k. CFFT (Call For Fire/Close Air Support Trainer; 30 student maximum per class)

## Enclosure 3. Training (cont)

### 4. Certification requirements.

a. Certification on all TADSS not specifically outlined in Enclosure 3, paragraph 3 of this policy will be conducted IAW published schedule. Copies of updated schedules will be published quarterly and available through the TADSS trainer at 573-596-4604.

b. Request to attend training must be scheduled NLT two (2) weeks prior and a minimum of five (5) cadre must attend. In the event less than five (5) cadre are scheduled or do not arrive, the class will be cancelled. Schedule is subject to change based on available resources.

c. A Certification Card will be issued at the end of the first TADSS training event. A master roster of those trained will be maintained at TADSS.

d. Cadre who have prior training documentation will automatically, upon presentation of documentation, be granted a Certification Card with the appropriate systems annotated.

e. Cadre who have prior training and do not have documentation may be granted certification at the discretion of the appropriate trainer if sufficient skill/knowledge is shown.

### 5. Simulator and Simulations trainer requirements.

a. IAW the Effective date of this policy, units will provide a list of all contractors and government employees (military or civilian) designated as trainers or instructor/operators for documented TADSS devices (Simulator and Simulation only) assigned long term to their units on Fort Leonard Wood.

b. List will include contact information (including AKO e-mail) for the employee and the expiration date of Instructor/Operator contracts to the Chief of TADSS. The list will be updated annually.

c. The TSO or designated representative will assign TS-MATS access based on this list.

d. All instructor/operators for TADSS designated as Simulators or Simulations will submit, in addition to any other required reports, a usage report in TS-MATS, at a minimum, on a monthly basis.

e. Exceptions will be on a case-by-case basis and must be staffed through the TSO, the Director, DPTMS and G3.

## Enclosure 4. Maintenance/Fabrication

1. Authority to fabricate/maintain TADSS devices. IAW AR 350-38, Training Device Policies and Management, no TADSS device will be fabricated or have maintenance performed at unit level.

2. Maintenance procedures.

a. Repair and maintenance of TSC equipment is performed in-house at the TADSS, accomplished through Contractor Logistics Support, or contracted locally.

b. At no time will Fort Leonard Wood TSC property be turned-in to other activities for repair, inspection, or technical inspection without approval from the Chief, TADSS; nor will TADSS property from another installation be accepted by the Fort Leonard Wood TADSS for repair.

c. TADSS in need of repair should be turned-in immediately.

1) Personnel turning in devices for repair must fill out a DA Form 2407 describing the deficiencies of the item(s).

2) If TSC personnel cannot repair the device, they will forward it to the appropriate activity for repair.

3) If available, the unit will receive a replacement for the damaged item.

4) If the equipment is a serial numbered item, the new serial number will be annotated on the appropriate hand receipt and a copy provided to the unit.

5) Items identified as contractor supported or under warranty will be identified by the TADSS maintenance personnel and repair/replacement conducted IAW the contract and/or warranty.

3. Fabrication requests.

a. Training Device Fabrication Request (TDFR)

1) Fort Leonard Wood units may request fabrication of TADSS items unique to their training needs. Depending on the level of work required units may be required to provide funding for materiel, manpower, equipment or all of the above to meet the requirement.

2) Units wishing a TADSS fabrication will complete a TDFR IAW AR 350-38, Appendix C and submit the completed document to the TSC.

Enclosure 4. Maintenance/Fabrication (cont)

3) TSC personnel will review the document and forward the TDFR to the Army Training Support Command (ATSC) for approval.

4) Once approval is received a cost estimate will be forwarded to the unit to ensure funding is available. Upon receipt of funding the item will be fabricated.

b. The following types of work are not authorized to be performed by the TADSS and will be routinely disapproved:

1) Fabrication of items available through the supply system including GSA and UNICOR.

2) Fabrication of plaques, picture frames, and other items intended for personal mementos.

3) Banners, desk signs, permanent-type signs that identify units.

4) Devices that are cataloged in DA or TRADOC PAM 350-9.

c. Device fabrication is not available on site at this time but units may submit their requirements to the TSC for off-site fabrication. The normal time required to have an item fabricated is 90 days.

Enclosure 5. EST Use policy



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DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON,  
FORT LEONARD WOOD  
320 MANSCEN LOOP STE 120  
FORT LEONARD WOOD, MISSOURI 65473-8929

IMNE-LNE-PL

22 June 2009

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Policy for Unit Requirements for Use of the Engagement Skills Trainer (EST) 2000 on Fort Leonard Wood

1. Purpose: To establish the requirements for units to provide their own training Cadre during use of the EST 2000.

2. Policy/Procedures: The complexity of use and sensitivity of components in the Engagement Skills Trainer (EST) 2000 require that skilled operators operate the systems for most types of training. Effective immediately, the following policies are established for use:

a. Units scheduled to use the EST will provide a minimum of one cadre member to provide training for each EST building and/or suite in which they are scheduled to conduct training. The cadre will conduct the weapons training and physically oversee their Soldiers on the EST firing line.

b. Units scheduled to use the EST will provide additional cadre (as required) to oversee Soldiers who are not training.

c. DPTM-provided operators are computer operators and will not, under any circumstances, act as trainers for Soldiers or be left alone with IET Soldiers.

d. If, at any time, a unit does not provide the required cadre, DPTM operators are required to ask the unit to leave the EST building/suite, notify their supervisor of the violation of this policy, and cease all training until the required cadre arrives or the operator is provided direction by their supervisor.

e. Policy dated 15 September 2008 is in effect for cadre who require training on the use of the EST systems. Copies of this policy are available from TADSS.

3. Proponent: DPTM TADSS.

//original signed//  
JOSEPH A. RAPONE II  
Director, DPTM

DISTRIBUTION:

All Schools, Brigades, Battalions,  
Companies, Detachments, Tenant Units,  
Directorates and Personal Staff Offices

Enclosure 6. CCMCK policy



IMNE-LNE-PL

DEPARTMENT OF THE ARMY  
INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON,  
FORT LEONARD WOOD  
320 MANSCEN LOOP STE 120  
FORT LEONARD WOOD, MISSOURI 65473-8929

9 April 2010

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

1. Purpose: To establish policy for use of the CCMCK.
2. Policy/Procedures: Effective immediately the following policies for use are established:
  - a. Units will provide their own safety equipment (see Enclosure 1), only the CCMCK weapon bolts and the protective face mask will be issued by TADSS.
  - b. Units will request CCMCK from TADSS via e-mail to [LEON DPTM TADSS \(leon.dptmtadss@conus.army.mil\)](mailto:leon.dptmtadss@conus.army.mil). In the request the unit will specifically request total number of bolts by type (1 per Soldier and 1 per OPFOR) and total number of masks (1 per Soldier, 1 per OPFOR, and 1 per Observer Controller).
  - c. CCMCK systems will be turned in to TADSS IAW Enclosure 2.
  - d. Man Marking Rounds for the CCMCK is obtained through the Ammunition Supply Point (ASP) and must be authorized, forecasted and ordered within the Total Ammunition Management Information System (TAMIS).
  - e. Range requirements for CCMCK use will be IAW Enclosure 3.
  - f. Priority of use is as follows (for units authorized Man Marking Rounds):
    - 1) Basic Training (as of FY12)
    - 2) Basic Officer Leader Course
    - 3) SAPPERS
    - 4) CBRN Captains Career Course
    - 5) Special Reaction Team/Protective Service Training/MP ALC/DA POLICE

3 Encs

//original signed//  
JOSEPH A. RAPONE II  
Director, DPTM

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

1. All training products (including videos), technical manuals, maintenance and safety requirements for CCMCK may be found on AKO at: <https://www.us.army.mil/suite/page/566738>.

2. Basic use and safety include the following:

a. CCMCK Theory of Operation

1) For the M16A2/M16A3/M16A4 Rifle, M4/M4A1 Carbine, and M249 Squad Automatic Weapon (SAW), the service bolt assembly is replaced with a CCMCK training bolt assembly that allows the firing of CCMCK marking ammunition.

2) The aluminum body of the projectile, which is closed by a plastic dome with three apertures, contains an applicator ball and a pellet of marking wax.

3) When the projectile strikes the target, the inertia of the applicator ball forces the colored wax forward through the apertures in the dome, marking the target.

4) Gas pressure from the rear, rim fire primer functioning propels the plastic ball forward where it strikes the front primer cup, initiating it.

5) Gas from the front primer propels the projectile. Gas pressure from the rear rim fire primer forces the inner body rearwards, driving the weapon working parts rearwards, extracting and ejecting the spent cartridge case from the weapon.

b. Warnings

1) Failure to inspect and clean the chamber and bore before firing service ammunition can result in personnel injury or catastrophic damage to the weapon if a CCMCK marking projectile remains lodged in the bore.

2) Minimum engagement distance when using CCMCK ammunition in converted weapons is 5 meters (16.4 feet). Personnel injury may occur if shots are taken at less than 5 meters (16.4ft).

3) To prevent serious injury, NO head shots will be taken by any participant.

4) To prevent personnel injury, DO NOT interchange service bolts between weapons.

5) Take appropriate steps to ensure that the same service bolt is put back in the weapon from which it was removed.

6) Serious personnel injury can occur if safety requirements are not met when using the CCMCK weapon conversion system with CCMCK ammunition during force-on-force training.

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

7) Required safety equipment when using CCMCK in Force-on Force training consists of: single hearing protection, CCMCK face mask, standard Combat Helmet or Advanced Combat Helmet, standard gloves, Standard Sun Wind and Dust goggles, groin protection and single layer of clothing (Army Combat Uniform (ACU) with sleeves rolled down. Safety equipment must be worn at all times.

8) Personnel using CCMCK marking cartridges are required to follow good personal hygiene practices, (i.e., hand washing, cleaning of contaminated clothing and equipment) following exposure/contamination with marking compounds. Seek medical care in the event of acute eye contamination, skin sensitization/irritation, or ingestion of marking compound.

c. Safety Features

1) The CCMCK 5.56mm conversion kit will not allow service 5.56mm ammunition to be fired when a service weapon is converted for use with the CCMCK conversion kit.

2) The safety feature is achieved with all 5.56 weapons by moving the CCMCK firing pin by 3mm off center.

3) All CCMCK bolts and barrels are identified by blue markings. Blue is an internationally recognized color to indicate training components.

4) The 5.56mm marking compound material is wax based, and inert.

d. Weapon Conversion Preparation

1) Ensure the weapon is properly cleaned and lubricated IAW TM 9-1005-319-10.

2) Ensure the bore is checked and the weapon is cleared.

3) Ensure chamber and bore are clean and Dry.

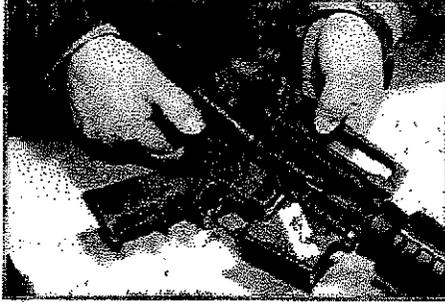
e. Weapon Conversion Remove Service Bolt

1) Point weapon in a safe direction. Ensure it is cleared and unloaded.

2) Using hands only, push takedown pin as far as it will go.

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

- 3) Pivot upper receiver from lower receiver.



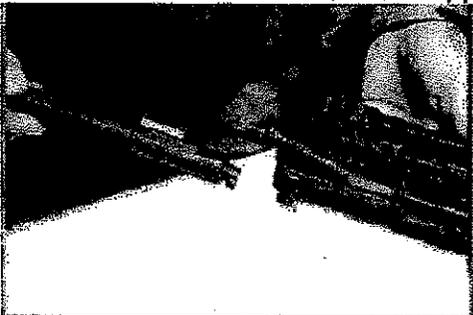
- 4) Pull Charging handle part way back to remove service bolt carrier from upper receiver.



- 5) Set the bolt carrier aside.

f. Weapon Conversion Install Weapon Conversion Kit

- 1) Clean and lubricate weapon with CLP IAW TM 9-1005-319-10.
- 2) Ensure chamber and bore is dry.
- 3) Using CLP, lightly lubricate CCMCK bolt carrier assembly. Ensure face of bolt is Dry.
- 4) Slide CCMCK bolt carrier into the upper receiver.



- 5) Push charging handle and bolt carrier into upper receiver until fully seated.

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

6) Ensure the selector lever is on SAFE.

7) Close the upper and lower receiver and using hands only, push in take down pin as far as it will go.

8) Perform function check. The weapon is now converted for CCMCK.

NOTE: As a safety design feature, the ejection opening of the service weapon will not close when the CCMCK bolt is installed.

g. Weapon Conversion Remove Conversion Kit

1) Point weapon in a safe direction. Clear/unload weapon.

2) Using hand pressure only, push pivot and takedown pin far enough to disengage upper receiver. Excessive force may cause weapon damage or weapon replacement.

3) Pivot upper receiver from lower receiver.

4) Pull charging handle part way back and remove CCMCK bolt and bolt carrier. Set aside for cleaning.

5) ROD THE BORE FOR POSSIBLE STUCK PROJECTILES.

h. Weapon Conversion Reinstall Service Bolt

1) With upper and lower receivers pivoted away from each other, slide service bolt carrier assembly into upper receiver until fully seated.

2) Push charging handle into upper receiver until fully seated. Ensure selector lever is on SAFE.

3) Close upper and lower receiver. Push in takedown pin.

4) The weapon is now converted back to service use.

NOTE: Do not interchange service bolts between weapons. Ensure that the same service bolt is put back in the weapon from which it was removed.

i. Loading Magazine

1) Use extreme care when handling and loading CCMCK marking ammunition. Marking ammunition is more susceptible to damage than service ammunition. Do not exert pressure on projectile as damage may occur. Damaged projectiles can cause bullet-in-bore and jammed weapons.

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

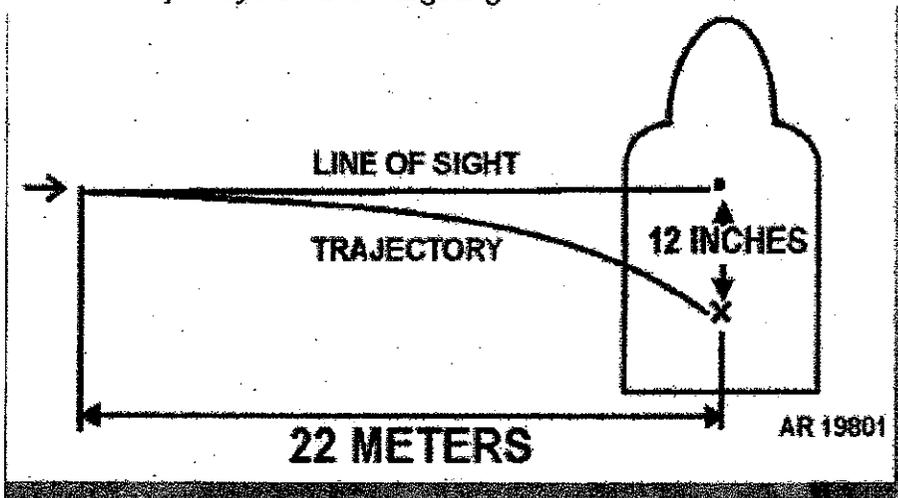
2) Projectiles may break or become lodged in the bore or mis-feeds may occur if CCMCK marking ammunition is not properly loaded into the magazine and firmly inserted into the weapon, or if projectiles are skewed or loose at time of loading or handling.

3) To prevent weapon jams, after firing approximately 210 CCMCK cartridges, the weapon must be cleaned and lubricated, paying special attention to chamber and bore areas IAW CCMCK Operators Manual TM 9-6920-3700-10.

4) Carefully load weapon with CCMCK marking ammunition IAW TM 9-1005-319-10.

j. Targeting

5.56 mm Trajectory For M16 Targeting



k. Troubleshooting

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
1. Rifle/Carbine does not fire CCMCK marking ammunition.	<ol style="list-style-type: none"> <li>1. Check primer for light/no indentation.</li> <li>2. Check if firing pin is damaged.</li> <li>3. Check firing pin and firing pin recess for debris, marking compound or excess oil.</li> <li>4. Check for dirty or damaged CCMCK ammunition.</li> </ol>	Return CCMCK bolt and carrier assembly to Field Maintenance. Return CCMCK bolt and carrier assembly to Field Maintenance. Clean IAW Chapter 2. Clean or replace ammunition.
2. Bolt does not open and/or cycle in the weapon.	Check bolt for dirt and damage.	<ol style="list-style-type: none"> <li>1. Clean bolt IAW Chapter 2.</li> <li>2. Return CCMCK bolt and carrier assembly to Field Maintenance.</li> </ol>

Enclosure 1 (Use and Safety procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
3. CCMCK marking ammunition does not feed.	<ol style="list-style-type: none"> <li>1. Check magazine for misaligned CCMCK marking ammunition.</li> <li>2. Check for dirty or damaged CCMCK marking ammunition.</li> <li>3. Check magazine for damage.</li> </ol>	<p>Ensure marking ammunition is loaded IAW Chapter 3.</p> <p>Clean or replace marking ammunition.</p> <p>Replace magazine.</p>
4. CCMCK marking ammunition does not chamber	<ol style="list-style-type: none"> <li>1. Check for dirty or damaged CCMCK marking ammunition.</li> <li>2. Check chamber for debris and CCMCK marking ammunition.</li> </ol>	<p>Clean or replace marking ammunition.</p> <p>Clean chamber and bore IAW Chapter 2.</p>
5. Bolt does not seat.	<p>Check bolt and carrier assembly for dirt, corrosion, carbon buildup, marking compound and damage.</p>	<ol style="list-style-type: none"> <li>1. Clean IAW Chapter 2</li> <li>2. If problem still exists, return to Field Maintenance.</li> </ol>
6. Cartridge does not extract.	<ol style="list-style-type: none"> <li>1. Check for damaged CCMCK marking ammunition.</li> <li>2. Check extractor spring function.</li> </ol>	<p>Remove damaged marking ammunition from chamber IAW TM 9-1005-319-10.</p> <p>Return CCMCK bolt and carrier assembly to Field Maintenance.</p>
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
7. Bolt carrier hangs up.	<p><b>WARNING</b></p> <p>Point weapon in a safe direction. Keep clear of muzzle.</p> <p>Check for round(s) jammed between bolt and charging handle and/or double feed.</p>	<ol style="list-style-type: none"> <li>1. Remove magazine.</li> </ol> <p><b>WARNING</b></p> <p>If round is removed, bolt is under spring pressure and may cause personnel injury.</p> <ol style="list-style-type: none"> <li>2. Remove round(s). If round(s) cannot be removed, notify Field Maintenance.</li> </ol>
8. CCMCK marking projectile lodged in bore.	<p>Unload/clear weapon and inspect bore for stuck projectile.</p>	<ol style="list-style-type: none"> <li>1. Rod and clean bore to remove stuck projectiles IAW Chapter 2.</li> <li>2. If projectile(s) cannot be removed, notify Field Maintenance.</li> </ol>

I. Maintain CCMCK Conversion Kit

- 1) Inspect, clean and lubricate weapon IAW TM 9-1005-319-10.
- 2) Before Turn-in of CCMCK conversion kit, ensure all CCMCK components are clean with CLP. Use a suitable cloth to clean any dirt, debris, carbon buildup, or marking compound, if necessary.

**Failure to inspect and clean the chamber and bore before firing service ammunition can result in personnel injury or catastrophic damage to the barrel if a training projectile remains lodged in the bore.**

Enclosure 2 (CCMCK Turn-In Procedures) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

TSC Personnel will inspect CCMCK components at turn-in. The following instructions provide reference for inspections. Refer to TM 9-6920-3700-23&P for additional inspection information.

**M16A2/A3/A4 Rifles and M4/M4A1 Carbines**

1. Inspect for presence of "TSC" engraving on bolt carrier. Bolts will not be accepted if "TSC" is not present.
2. Inspect bolt carrier for loose bolt carrier key.
3. Inspect locking lugs for cracking or chipping. Inspect bolt face for excessive pitting.
4. Remove firing pin and inspect for presence and serviceability of firing pin spring.
5. Inspect firing pin for bends, cracks or sharp or blunted tip.
6. Inspect firing pin retaining pin to determine if bent or badly worn.
7. Inspect extractor assembly for proper spring function and for chipped or broken edges on the lip which engages the cartridge rim.
8. Inspect cartridge ejector for proper spring function and for dirt, damage or serviceability.

**Face Mask**

1. As stated in the Operator's Manual for the CCMCK, it is the using unit's responsibility to clean the CCMCK face mask before use and prior to turn-in in accordance with the item manufacturer's attached cleaning instructions.
2. TSC will inspect masks to ensure they meet the washing instructions.
3. Washing instructions for the masks are as follows:
  - a. Machine wash IAW the seam tag found inside the mask.
  - b. Tab should state: Wash in 40 degree Celsius (104 degree Fahrenheit) water, do not bleach, do not iron, do not dry clean, and do not tumble dry.
4. It is the TSC responsibility to assure, based on a visual/tactile inspection that upon turn-in these items have been cleaned and dried appropriately. If, in the opinion of the TSC personnel, this action has not been accomplished appropriately the CCMCK facemask will not be accepted for turn-in until this action has been accomplished.

Enclosure 3 (Range Requirements) to IMNE-LNE-PL SUBJECT: Policy for Use of the Close Combat Mission Capability Kit (CCMCK)

1. Purpose. To establish procedures for using non-standard marking systems munitions during training events on Fort Leonard Wood.

2. References.

a. TACOM LCMC SOU 09-008, CCMCK, Non-Standard Man-Marking Systems

b. FLW Reg 210-14, Ranges, Training Areas, and Training Facilities

3. BACKGROUND. Due to recent accidents within TRADOC, new guidance has been issued on the use of all Non-standard man-marking systems. These systems include, but are not limited to, paintball (commercially procured man-marking systems), Close Combat Mission Capabilities Kit (CCMCK), Simunitions, and Ultimate Training Munitions (UTM).

4. PROCEDURES.

a. All units utilizing non-standard marking equipment will schedule the area to be trained with Directorate of Plans, Training, and Mobilizations, (DPTMS) Scheduling Branch. The scheduled training event will be on the Range Facility Management Support System (RFMSS) schedule.

b. Units will provide a training plan or SOP to Range Control that includes the complete details of the training event. The unit will also submit a signed Risk Assessment that identifies the risks/hazards associated with the use of the non-standard marking kits and how they will be mitigated.

c. Full Personal Protective Equipment (PPE) will be worn by all participants during the training and all those observing training that are within 75 meters of the furthest boundary of training. Full PPE will consist of, at a minimum, those items found in Enclosure 1, 2. b. 7).

d. During training, no force-on-force training will be conducted within 5 meters. No head shots will be taken at any time or from any distance.

5. CONTACTS. POC for this annex is Jeff Cornuet at Range Control, 596-4167.

## **Nabors, Douglass M Mr CIV USA**

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**From:** Wiseman, David Mr CIV USA IMCOM  
**Sent:** Thursday, April 05, 2012 7:52 AM  
**To:** LEON-DL-DPTM TADSS  
**Subject:** FW: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (UNCLASSIFIED)  
**Attachments:** AIN057-12A.pdf  
**Signed By:** david.wiseman1@us.army.mil

Classification: UNCLASSIFIED  
Caveats: FOUO

Change in minimum distance for CCMCK.

Doug,  
Please attach a copy of this to our policies.

Dave Wiseman

-----Original Message-----

**From:** Rapone, Joe CIV USA IMCOM  
**Sent:** Wednesday, April 04, 2012 4:32 PM  
**To:** Wiseman, David Mr CIV USA IMCOM  
**Cc:** Simpson, Bruce H Mr CIV USA IMCOM; Murray, Rhonda K Ms CIV USA TRADOC  
**Subject:** FW: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (UNCLASSIFIED)

FYI and dissemination.

JOSEPH A. RAPONE II  
Director, DPTMS  
MSCOE & FLW  
573/563-4038

-----Original Message-----

**From:** Sipes, Randy R Mr CIV USA TRADOC  
**Sent:** Wednesday, April 04, 2012 3:51 PM  
**To:** Aguilar, Jose LTC MIL USA TRADOC; Chipps, Brian MIL US USMC; Curtis, Kevin CIV USA TRADOC; Dixon, Robert LTC MIL USA TRADOC; Ellerman, Bob L Mr CIV USA IMCOM; Fox, Mike D MR CIV USA TRADOC; Granum, Randy SGM MIL USA TRADOC; Hylton, Robb Mr CIV USA IMCOM; Horn, Justin J Mr CIV 102ND DIV MS G-3/5/7; Kelch, Daniel SGM MIL USA TRADOC; LEON-DL-OPS; Luse, Sean MSG MIL USA FORSCOM; Miller, Tom Mr CIV US USMC; Mulhall, Patricia CIV USA TRADOC; Owens, Michael D Mr CIV USA IMCOM; Routh, Tina Mrs CIV USA TRADOC; Toussaint, Patrickson 1SG MIL USA; Trippany, Doug CPT MIL USA TRADOC; True, Bill SFC MIL USA IMCOM; Whiteside, Bruce CW4 MIL USA TRADOC  
**Cc:** Terry, Mike Mr CIV USA TRADOC; Mostajo, Andy Mr CIV USA; Walter, Vance Mr CIV USA TRADOC; Riden, Dale LTC RES USA TRADOC; Dils, Robert Mr CIV USA TRADOC; Campbell, Keith A Mr CIV USA TRADOC; Mata, Joe L Mr CIV USA; Cornuet, Jeffrey A Mr CIV USA  
**Subject:** FW: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

Good afternoon all,

FYI and dissemination.

RS

Randy Sipes  
MScOE Safety  
6-0116

-----Original Message-----

From: Campbell, Curtis W Jr CIV (US)  
[mailto:curtis.w.campbell12.civ@mail.mil]  
Sent: Wednesday, April 04, 2012 8:37 AM  
To: Army AMC org JMC-QAS-NAR  
Subject: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

/UNCLASSIFIED//

041241Z Apr 12

FROM CDR JMC ROCK ISL IL//AMSJM-QAS//

740 (A)

SUBJECT: AMMUNITION INFORMATION NOTICE (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

1. AIN 056-12 WAS TRANSMITTED ON 301926Z Mar 12
2. THIS IS THE INITIAL ISSUE OF THIS AIN
3. DODICS: AB09/AB10/AB11/AB12/AB13/AB14/AB15/AB16/AB17
4. REFERENCES:

A. MEMORANDUM, FOR: US ARMY PROJECT MANAGER, MANEUVER AMMUNITION SYSTEM, SFAE-AMO-MAS-SMC, 20 JAN 2012, SUBJECT: AMENDMENT NO. 1 TO THE SAFETY CONFIRMATION FOR THE CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) IN SUPPORT OF FIELDING

B. MEMORANDUM, US ARDEC, ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER, RDAR-EIL-LA, 6 MAR 2012, SUBJECT: REQUEST FOR AMMUNITION INFORMATION NOTICE (AIN) - CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - ENGAGEMENT DISTANCE

C. MIL-STD-882D, STANDARD PRACTICE FOR SYSTEM SAFETY, 10 FEB 00

D. TM 9-6920-3700-10, TECHNICAL MANUAL OPERATOR'S MANUAL FOR CLOSE COMBAT MISSION CAPABILITY KIT (CCMCK), 13 MAR 09

5. THIS AIN WILL BE DISSEMINATED TO ALL PERSONNEL INVOLVED IN INSPECTING, STORING, HANDLING, ISSUING, OR USING SUBJECT AMMUNITION. THIS AIN WILL BE ENFORCED BY THE UNIT OFFICER IN CHARGE (OIC) / NON-COMMISSIONED OIC (NCOIC), RANGE SAFETY

OFFICER, OR LOCAL TRAINING OFFICER WITH DIRECT COMMAND AND CONTROL OVER RANGES USING CCMCK ASSETS.

6. BLUF: THE FOLLOWING MINIMUM SAFE ENGAGEMENT DISTANCES WILL BE ENFORCED WHEN CONDUCTING TRAINING USING CCMCK AMMUNITION:

A. CTG 5.56MM (M1042 AND M1071) CCMCK - ALL LOTS - 1.5 METERS (5 FT) FROM END OF THE WEAPON MUZZLE.

B. CTG 9MM (M1041) CCMCK ALL LOTS - 1.5 METERS (5 FT) FROM WEAPON MUZZLE.

7. SYSTEM DESCRIPTIONS: CCMCK IS DESIGNED TO ALLOW FORCE-ON-FORCE CLOSE COMBAT TRAINING BY TEMPORARILY CONVERTING SERVICE WEAPONS (M16 SERIES RIFLES, M4 SERIES CARBINES, M249 SQUAD AUTOMATIC WEAPONS (SAW), AND M9 AND M11 PISTOLS) TO FIRE LOW-VELOCITY MARKING AMMUNITION. THE SYSTEM ALLOWS NORMAL WEAPON EMPLOYMENT CUES SUCH AS AIMING, FIRING, FORCE-ON-FORCE TRAINING, AND INTERACTIVE LIVE-FIRE SCENARIOS.

8. SAFETY STUDY:

A. ARDEC CONDUCTED SAFETY CONFIRMATION TESTS TO SUPPORT FULL MATERIAL RELEASE AND THE FIELDING OF THESE SUBJECT CCMCK ASSETS AND DETERMINE THE MINIMUM ENGAGEMENT DISTANCES. THE TEST METHODOLOGY FOCUSED ON ASSESSING PROJECTILE BEHAVIOR GIVEN A WORSE CASE IMPACT VELOCITY AGAINST THE ARMY COMBAT UNIFORM (ACU) FABRIC OVER GELATIN. ALL LOTS OF THE M1041 AND M1071 MANUFACTURED TO DATE, ARE WELL BELOW MAXIMUM VELOCITY OF 450 FT/SEC ON 5.56MM CARTRIDGES. THE CTG 9MM (M1041) WAS TESTED DURING THE 2007 ATC DT AND DID NOT TEAR OR PENETRATE THE ACU FABRICS.

B. IN ADDITION, THE TESTS SHOWED THAT THERE WERE INSTANCES WHERE THE PLASTIC TIPS OF THE PROJECTILES FOR CCMCK FALL OFF OR BECOME LOOSE DURING HANDLING AND LOADING. CARTRIDGES FIRED WITH LOOSE OR MISSING PLASTIC TIPS HAVE HIGHER VELOCITIES AND THE PROJECTILE CAN BE EXPECTED TO PENETRATE THE ACU FABRIC AND SKIN. THE PROTECTIVE FACE MASKS DID STOP THE HIGHER VELOCITY PROJECTILES.

C. THE COMBINED RESULTS OF THESE TESTS CONCLUDED THE OVERALL RISK WAS MEDIUM WHEN USING CCMCK CARTRIDGES WITH THE APPROVED COMMERCIAL OFF-THE-SHELF (COTS) PROTECTIVE MASKS, PROVIDED USERS FOLLOW THE WARNINGS, PROCEDURES, AND MITIGATIONS IDENTIFIED HEREIN AND IN THE TECHNICAL MANUAL (REF D).

D. THIS OVERALL MEDIUM RISK ALLOWED A REDUCTION IN THE SAFE MINIMUM ENGAGEMENT DISTANCE TO 1.5 METERS (5 FT). THIS SAFETY CONFIRMATION INCLUDES ALL LOTS OF CTG 5.56MM (M1042 AND M1071) CCMCK AMMUNITION. THERE ARE NO RESTRICTIONS TO LOTS FOR THE CTG 9MM (M1041).

9. THE ATTACHED TABLES (AIN057-12A) LIST THE CCMCK CARTRIDGES APPROVED FOR FULL MATERIAL RELEASE:

10. ADDITIONAL SAFETY INFORMATION:

A. SOLDIERS WILL WEAR APPROVED PPE FOR PROTECTION OF THE EYES,

HEAD, NECK, AND GROIN. THE SIMUNITION FXR OR EYE TACTICAL PROTECTIVE FACE MASKS MUST BE WORN IN CONJUNCTION WITH THE ARMY COMBAT HELMET (ACH). FAILURE TO WEAR APPROVED PPE CAN RESULT IN PERMANENT PARTIAL DISABILITY DUE TO THE PROJECTILES IMPACTING THE UNPROTECTED HEAD, EYES, FACE, NECK, OR GROIN.

B. HEAD SHOTS ARE PROHIBITED. SOLDIERS MUST AIM FOR THE TARGET'S BODY CENTER OF MASS.

C. SOLDIERS WILL NOT TRAIN WITH ANY CCMCK WEAPON OR CARTRIDGES WITHOUT ALL SKIN COVERED BY A MINIMUM OF ONE LAYER OF CLOTHING (INCLUDING COMBAT GLOVES). SOLDIERS TRAINING WITHOUT COMPLETE PPE WILL INCUR BRUISING, WELTS AND POSSIBLE BROKEN SKIN.

D. SOLDIERS WILL WEAR SINGLE HEARING PROTECTION WHEN TRAINING WITH ANY CCMCK WEAPON OR CARTRIDGE.

E. INSPECT THE CTG 5.56MM (M1042 AND M1071) TO ENSURE THE PLASTIC TIPS ARE SECURE AND CANNOT BE REMOVED BY HAND.

11. TECHNICAL POINT OF CONTACTS: MR. ROBERT WEISSMAN, DSN 880-3056, EMAIL: ROBERT.WEISSMAN@US.ARMY.MIL AND MR. DAVID CHAROWSKY, DSN: 880-6087, EMAIL: DAVID.CHAROWSKY@US.ARMY.MIL, RDAR-MEM-I. POINT OF CONTACT FOR DISTRIBUTION OF THIS AIN IS DARRIN LAMPMAN, DSN 793-7188, AMSJM-QAS, EMAIL: DARRIN.LAMPMAN@US.ARMY.MIL.

12. THIS AIN EXPIRES 31 MARCH 2014 UNLESS OTHERWISE RESCINDED OR SUPERSEDED.

//SIGNED//

JOHN W. GRAY  
CHIEF, AMMUNITION SURVEILLANCE DIVISION  
Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO